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| | <p>(2) 現場計測結果の確認</p>  <p>現場ワークダウンにより、防護対象設備の機能喪失高さ(計測値)を確認した。 (機能喪失高さ(計測値)=現場計測値-水上高さ) 機能喪失高さ(設計値)及び機能喪失高さ(計測値)を比較し、より低い方を機能喪失高さとして設定</p> | <p><個別測定箇所></p>  <p>枠囲みの内容は機密情報に属しますので公開できません。</p> <p>(2) 現場計測結果の確認</p>  <p>現場ワークダウンにより、防護対象設備の個別測定箇所における機能喪失高さ(計測値)を確認した。 (機能喪失高さ(計測値)=現場測定値-水上高さ)</p> | |

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| <p style="text-align: right;">補足資料5-2 別紙3</p> <p>内部溢水影響評価における継続的な管理</p> <p>今後、内部溢水影響評価については、火災荷重や滞留面積の変更等について、継続的に当社にて管理していくことを目的に「内部溢水発生時における原子炉施設の保全のための活動所則」を制定する予定である。</p> <p>本マニュアルに記載する内容について以下の項目を検討している。なお、本マニュアルは当社 QMS 体系に組み込み継続的に一元管理する。</p> | | <p style="text-align: right;">補足説明資料 42</p> <p>内部溢水影響評価における継続的な管理</p> <p>今後、内部溢水影響評価については、火災荷重や滞留面積の変更等について、継続的に当社にて管理していくことを目的に、以下のマニュアル類に内部溢水の影響評価に関連する記載を反映する予定である。</p> <p>【反映予定先マニュアル】</p> <p>「泊発電所内部溢水対応要則」、「泊発電所常設物・仮置物管理要則」</p> <p>「泊発電所設計基準事象影響評価要則」、「泊発電所影響評価細則」</p> <p>各種マニュアルに記載する内容については、以下の項目を検討している。なお、各種マニュアルは当社 QMS 体系に組み込み継続的に一元管理する。</p> <p>また、常設物・仮置物の設置においては、申請された物品の発熱量を考慮した放水時間、及び申請された物品の欠損面積を考慮した上で溢水影響評価に影響を与えないことを確認している。（別紙1）</p> | <p>【大阪】 記載表現の相違</p> <p>【女川】 記載方針の相違</p> <p>女川では継続的な管理にかかわる個別資料を作成していないため、審査実績のある大阪の資料と比較する。</p> <p>【大阪】 記載表現の相違</p> <p>【大阪】 記載表現の相違</p> <p>【大阪】 記載方針の相違</p> <p>常設物・仮置物の設置に関する実運用のフローを記載。</p> <p>【大阪】 記載表現の相違</p> | | | | | | | | |
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| <p>表1 内部溢水発生時における原子炉施設の保全のための活動所則(5/5)</p> <table border="1" data-bbox="107 284 689 911"> <thead> <tr> <th>マニュアルへの反映事項</th> <th>記載内容(案)</th> </tr> </thead> <tbody> <tr> <td data-bbox="107 316 398 911"> 9. その他 ①消火栓を用いた放水を行う場合の注意事項掲示の管理方法 </td> <td data-bbox="405 316 689 911"> 9. その他 ①防護対象設備が設置されているエリアで、消火栓を用いた放水を行う場合の注意事項を現場の防護対象設備設置エリアに掲示する。  </td> </tr> <tr> <td data-bbox="107 746 398 911"> ②管理区域内で消火栓を用いた消火活動実施後の内部溢水影響評価の検証 </td> <td data-bbox="405 746 689 911"> ②管理区域内で実際に火災が発生し、消火栓及びスプリンクラーを用いた消火活動を実施した場合、その消火活動の結果を踏まえ、内部溢水影響評価の妥当性について検証を行う。 </td> </tr> </tbody> </table> | マニュアルへの反映事項 | 記載内容(案) | 9. その他 ①消火栓を用いた放水を行う場合の注意事項掲示の管理方法 | 9. その他 ①防護対象設備が設置されているエリアで、消火栓を用いた放水を行う場合の注意事項を現場の防護対象設備設置エリアに掲示する。  | ②管理区域内で消火栓を用いた消火活動実施後の内部溢水影響評価の検証 | ②管理区域内で実際に火災が発生し、消火栓及びスプリンクラーを用いた消火活動を実施した場合、その消火活動の結果を踏まえ、内部溢水影響評価の妥当性について検証を行う。 | | <p>表1 各種マニュアルへの反映事項(5/5)</p> <table border="1" data-bbox="1279 284 1861 708"> <thead> <tr> <th>マニュアルへの反映事項</th> <th>記載内容(案)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1279 316 1581 708"> 9. その他 ①消火栓を用いた放水を行う場合の注意事項掲示の管理方法 </td> <td data-bbox="1588 316 1861 708"> 9. その他 ①防護対象設備が設置されているエリアで消火栓を用いた放水を行う場合の注意事項を、現場の防護対象設備設置エリアに掲示する。  </td> </tr> <tr> <td data-bbox="1279 587 1581 708"> ②管理区域内で消火栓を用いた消火活動実施後の内部溢水影響評価の検証 </td> <td data-bbox="1588 587 1861 708"> ②管理区域内で実際に火災が発生し、消火栓を用いた消火活動を実施した場合、その消火活動の結果を踏まえ、内部溢水影響評価の妥当性について検証を行う。 </td> </tr> </tbody> </table> | マニュアルへの反映事項 | 記載内容(案) | 9. その他 ①消火栓を用いた放水を行う場合の注意事項掲示の管理方法 | 9. その他 ①防護対象設備が設置されているエリアで消火栓を用いた放水を行う場合の注意事項を、現場の防護対象設備設置エリアに掲示する。  | ②管理区域内で消火栓を用いた消火活動実施後の内部溢水影響評価の検証 | ②管理区域内で実際に火災が発生し、消火栓を用いた消火活動を実施した場合、その消火活動の結果を踏まえ、内部溢水影響評価の妥当性について検証を行う。 | <p>【大阪】 記載表現の相違</p> <p>【大阪】 設計方針の相違 泊では、防護対象設備が設置されている建屋にスプリンクラーは設置されていない。</p> |
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|------------|-------------|--|--|
| | | <p style="text-align: right;">別紙1</p> <p>※1 申請された物品の発熱量を考慮した火災区画の等価時間が、火災区画の耐火時間と溢水区画の放水時間を上回らないことを確認する。 ※2 申請された物品の欠損面積を考慮しても、溢水防護対象設備が機能喪失しないことを確認する。 ※3 ※1により、評価を満足しない場合は、火災荷重の削減又は設置区画の見直しを実施する。※2により評価を満足しない場合は、欠損面積の見直し又は設置区画の見直しを実施する。</p> <p style="text-align: center;">図1 常設物・仮置物申請フロー</p> | <p>【大阪】 <u>記載方針の相違</u> 常設物・仮置物の設置に関する実運用のフローを記載。</p> |

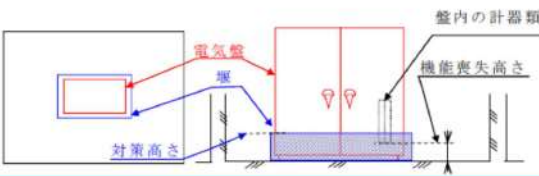

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| <p style="text-align: right;">補足資料</p> <p>12-1 防護対象設備における機能喪失高さの裕度が小さい場合のゆらぎの影響評価</p> <p>1. はじめに 没水影響評価において、判定基準（機能喪失高さ>溢水水位）は満足しているが裕度が少ない防護対象設備があるため、消火活動に係る放水による溢水影響評価、地震起因による溢水影響評価及び想定破損による溢水影響評価から対象を抽出し、水面のゆらぎによる影響を検討し、対策を実施する。</p> <div data-bbox="116 518 678 1157" style="border: 2px solid blue; padding: 5px;"> <p style="text-align: center;">図1 水面のゆらぎ影響の検討について</p> <p style="text-align: center;">図2 対策例について</p> </div> | <p style="text-align: right;">補足説明資料 15</p> <p>防護対象設備における機能喪失高さの裕度が小さい場合のゆらぎ影響評価</p> <p>1. はじめに 没水影響評価において、判定基準（機能喪失高さ>溢水水位）は満足しているが裕度が小さい防護対象設備があるため、溢水の影響を評価するために想定破損による溢水、消火水の放水による溢水、地震起因による溢水影響評価結果から、裕度が小さい対象機器を抽出し、水面のゆらぎによる影響を検討する。</p> <p>2. 水面のゆらぎの考慮について (1) 溢水源から流出する際の水勢 溢水が防護区画に流入した直後は、過渡的に水勢によりゆらぎが発生する可能性があるが、時間の経過と共に水位が上昇するにつれ流体の水勢は弱まり、ゆらぎによる水面の変動は十分小さくなると考えられることから、水勢によるゆらぎの考慮は不要である。</p> | <p style="text-align: right;">補足説明資料 43</p> <p>防護対象設備における機能喪失高さの裕度が小さい場合のゆらぎ影響評価</p> <p>1. はじめに 没水影響評価において、判定基準（機能喪失高さ>溢水水位）は満足しているが裕度が小さい防護対象設備があるため、溢水の影響を評価するために想定破損による溢水、消火水の放水による溢水、地震起因による溢水影響評価結果から、裕度が小さい対象機器を抽出し、水面のゆらぎによる影響を検討する。</p> <p>2. 水面のゆらぎの考慮について (1) 溢水源から流出する際の水勢 溢水が防護区画に流入した直後は、過渡的に水勢によりゆらぎが発生する可能性があるが、時間の経過と共に水位が上昇するにつれ流体の水勢は弱まり、ゆらぎによる水面の変動は十分小さくなると考えられることから、水勢によるゆらぎの考慮は不要である。</p> | <p>【女川・大阪】 記載表現の相違 【大阪】 記載方針の相違 女川審査実績の反映</p> |

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| | <p>(2) 人員の移動による水面のゆらぎ</p> <p>内部溢水発生後、運転員等が歩行する際に、水位変動することが考えられる。このため、人員の移動により溢水水位に応じてゆらぎが発生する可能性があることから、溢水防護区画において0.1m^{*1}のゆらぎを考慮することとする。</p> <p>※1 浸水時の歩行試験を実施した結果、水面で最大変動は約30mmであったことから、0.1mのゆらぎは十分な保守性を有していると考えられる。（浸水時の歩行試験の詳細については補足説明資料8参照。）</p> <p>3. 検討手順</p> <p>図1に示す手順にて対象設備の抽出を実施した。</p> <div data-bbox="786 660 1178 975" data-label="Diagram"> <pre> graph TD A[溢水防護区画] --> B["機能喪失高さ(①) > 没水水位(②) で①-②の値が0.1m以下の設備を抽出"] B --> C[ゆらぎ対策の実施] </pre> </div> <p>図1 ゆらぎ影響評価の対象設備抽出手順</p> | <p>(2) 人員の移動による水面のゆらぎ</p> <p>内部溢水発生後、運転員等が歩行する際に、水位変動することが考えられる。このため、人員の移動により溢水水位に応じてゆらぎが発生する可能性があることから、溢水防護区画において0.1mのゆらぎを考慮することとする。</p> <p>3. 検討手順</p> <p>図1に示す手順にて対象設備の抽出を実施した。</p> <div data-bbox="1384 668 1756 970" data-label="Diagram"> <pre> graph TD A[溢水防護区画] --> B["機能喪失高さ(①) > 没水水位(②) で①-②の値が0.1m以下の設備を抽出"] B --> C[ゆらぎ対策の実施] </pre> </div> <p>図1 ゆらぎ影響評価の対象設備抽出手順</p> | <p>【大阪】 記載方針の相違 女川審査実績の反映</p> <p>【女川】 記載方針の相違 女川は歩行試験の結果について記載している。評価において0.1mのゆらぎを考慮していることは女川と泊で同様である。</p> |

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|--|--|--|--|------------------------------------|-------------|-------------|------------|----|-----|------|------|-------|------------------------------------|-------|-------|------|---|------|---------------|------------|--------------|------------|----|----------|-------------------------------|-----|-------|-------|-------|-------------------------------|-------|-------|--------|-----------------------------|-------|-------|-----|---|------|---------------|------------|--------------|------------|----|-----------|---------------------------------|-------|-------|-------|-----|--|
| <p>(3)想定破損による影響評価</p> <p>想定破損による没水影響評価のうち、判定基準に対し裕度が小さいエリアについて溢水の伝播に伴う水面のゆらぎの影響を検討した。</p> <p>裕度の小さい設備は、電気盤である。</p> <p>電気盤については、当該エリアへの溢水の伝播は、上階で発生した溢水が階段又は機器ハッチを流下した後、常時閉止された扉を通して当該エリアへ伝播することから、溢水の伝播による水面のゆらぎの影響は小さいと考える。</p> <p>(4)評価結果に対する対策について</p> <p>前述のとおり、放水による影響、地震に起因する影響、想定破損による影響それぞれの評価によりゆらぎの影響は小さいと考えられるが、さらなる安全性向上のため、裕度が10cm以下の設備に対し水面のゆらぎ対策として堰の設置等を実施する。対策を実施する設備を表1、2、3、4に、堰の設置施工例を図3に示す。</p> <p>表3 想定破損による影響に対する対策を実施する防護対象設備</p> | <p>4. ゆらぎによる影響評価</p> <p>(1) 想定破損による溢水</p> <p>想定破損による溢水影響評価において、溢水の伝播に伴う水面のゆらぎによる影響を検討した。</p> <p>判定基準（機能喪失高さ>溢水水位）に対して裕度が小さい防護対象設備への伝播について、おおむね共通通路部等を通じ当該エリアに伝播することから、溢水の伝播による水面のゆらぎの影響は小さいと考えられるが、更なる安全性向上対策として水面のゆらぎ対策を実施する。</p> <p>表1に想定する機器の破損等により生じる溢水による影響に対して、裕度が小さい防護対象設備と実施するゆらぎ対策を示す。</p> <p>表1 想定破損による影響に対するゆらぎ対策を実施する防護対象設備</p> | <p>4. ゆらぎによる影響評価</p> <p>(1) 想定破損による溢水</p> <p>想定破損による溢水影響評価において、判定基準（機能喪失高さ>溢水水位）に対して裕度の小さい防護対象設備はなく、想定破損による溢水においてゆらぎ対策は不要であることを確認した。</p> <p>表1に想定する機器の破損等により生じる溢水による影響に対して、裕度が最も小さい防護対象設備を示す。</p> <p>表1 想定破損による影響に対するゆらぎ影響評価結果</p> | <p>【大阪】 記載方針の相違 女川審査実績の反映</p> <p>【女川】 設計方針の相違 泊では想定破損による溢水影響評価において、ゆらぎを考慮した0.1mの裕度を確保できていることから、女川の4.(2)項の記載と同様とした。</p> <p>【女川】 設計方針の相違 泊において想定破損による溢水影響評価において、ゆらぎを考慮した0.1mの裕度を確保できていることから、ゆらぎ対策は不要である。</p> <p>【大阪】 記載表現の相違</p> <p>【女川・大阪】 設計方針の相違 設備配置による相違 記載方針の相違 対策実施設備が無いことによる表題の相違</p> <p>【女川】 記載方針の相違 機能喪失高さの考え方については「添付資料5 機能喪失高さの考え方」に記載している。</p> <p>【大阪】 記載方針の相違 大阪はゆらぎ対策（堰）の設置施工例を掲載しているが、確認結果より、泊はゆらぎ対策が不要であることから記載していない。</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>号炉</th> <th>E.L. +[m]</th> <th>滞留エリア番号</th> <th>①溢水水位 [m]</th> <th>防護対象設備</th> <th>②機能喪失高さ [m]</th> <th>裕度 ②-① [m]</th> <th>対策</th> </tr> </thead> <tbody> <tr> <td>3号炉</td> <td>15.8</td> <td>CB-9</td> <td>0.015</td> <td>3B1, 3B2 パワーセンタ (3PC-B1, B2)</td> <td>0.060</td> <td>0.045</td> <td>堰の設置</td> </tr> </tbody> </table> | 号炉 | E.L. +[m] | 滞留エリア番号 | ①溢水水位 [m] | 防護対象設備 | ②機能喪失高さ [m] | 裕度 ②-① [m] | 対策 | 3号炉 | 15.8 | CB-9 | 0.015 | 3B1, 3B2 パワーセンタ (3PC-B1, B2) | 0.060 | 0.045 | 堰の設置 | <table border="1"> <thead> <tr> <th>区画番号</th> <th>防護対象設備 (機器番号)</th> <th>没水水位 (m) ①</th> <th>機能喪失高さ (m) ②</th> <th>余裕 (m) ②-①</th> <th>対策</th> </tr> </thead> <tbody> <tr> <td rowspan="2">R-2F-2-5</td> <td>CAMS 電磁弁(サンプル切替弁) (D23-F001A)</td> <td rowspan="3">0.3</td> <td>0.385</td> <td>0.085</td> <td rowspan="2">堰設置※1</td> </tr> <tr> <td>CAMS 電磁弁(サンプル切替弁) (D23-F004A)</td> <td>0.375</td> <td>0.075</td> </tr> <tr> <td>R-2F-5</td> <td>HECW(A) 往還差圧調節弁 (P25-F014A)</td> <td>0.395</td> <td>0.095</td> <td>—※2</td> </tr> </tbody> </table> <p>※1 区画入口に堰を設置する。設置する堰は、止水性能試験により、その有効性が確認されたものを設置する</p> <p>※2 図2に示すとおり、設定している機能喪失高さは相当の裕度を有していることから、ゆらぎ対策が不要であることを確認</p> | 区画番号 | 防護対象設備 (機器番号) | 没水水位 (m) ① | 機能喪失高さ (m) ② | 余裕 (m) ②-① | 対策 | R-2F-2-5 | CAMS 電磁弁(サンプル切替弁) (D23-F001A) | 0.3 | 0.385 | 0.085 | 堰設置※1 | CAMS 電磁弁(サンプル切替弁) (D23-F004A) | 0.375 | 0.075 | R-2F-5 | HECW(A) 往還差圧調節弁 (P25-F014A) | 0.395 | 0.095 | —※2 | <table border="1"> <thead> <tr> <th>区画番号</th> <th>防護対象設備 (機器番号)</th> <th>没水水位 (m) ①</th> <th>機能喪失高さ (m) ②</th> <th>余裕 (m) ②-①</th> <th>対策</th> </tr> </thead> <tbody> <tr> <td>3A8-D-N52</td> <td>3A, 3B-中央制御室第2層ファン (3VSP20A, B)</td> <td>0.048</td> <td>0.150</td> <td>0.102</td> <td>—※1</td> </tr> </tbody> </table> <p>※1 機能喪失高さに対して必要な裕度を有していることから、ゆらぎ対策は不要であることを確認</p> | 区画番号 | 防護対象設備 (機器番号) | 没水水位 (m) ① | 機能喪失高さ (m) ② | 余裕 (m) ②-① | 対策 | 3A8-D-N52 | 3A, 3B-中央制御室第2層ファン (3VSP20A, B) | 0.048 | 0.150 | 0.102 | —※1 | |
| 号炉 | E.L. +[m] | 滞留エリア番号 | ①溢水水位 [m] | 防護対象設備 | ②機能喪失高さ [m] | 裕度 ②-① [m] | 対策 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3号炉 | 15.8 | CB-9 | 0.015 | 3B1, 3B2 パワーセンタ (3PC-B1, B2) | 0.060 | 0.045 | 堰の設置 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 区画番号 | 防護対象設備 (機器番号) | 没水水位 (m) ① | 機能喪失高さ (m) ② | 余裕 (m) ②-① | 対策 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-2F-2-5 | CAMS 電磁弁(サンプル切替弁) (D23-F001A) | 0.3 | 0.385 | 0.085 | 堰設置※1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CAMS 電磁弁(サンプル切替弁) (D23-F004A) | | 0.375 | 0.075 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-2F-5 | HECW(A) 往還差圧調節弁 (P25-F014A) | | 0.395 | 0.095 | —※2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 区画番号 | 防護対象設備 (機器番号) | 没水水位 (m) ① | 機能喪失高さ (m) ② | 余裕 (m) ②-① | 対策 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  <p>図3 堰の設置施工例</p> |  <p>図2 HECW(A) 往還差圧調節弁の機能喪失高さ</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|------------|--------------|----------------------|-----------------|-------------|------------|----|-----|------|----------|-------|----------------------|-------|--------|------|------|----------|-------|--------------------|-------|--------|------|-----|------|----------|-------|----------------------|-------|-------|------|------|----------|-------|--------------------|-------|--------|------|--|---|------|---------------|------------|--------------|------------|----|----------|--|-------|-------|-------|-----------------|--|
| <p>2. 検討結果</p> <p>(1)放水による影響評価</p> <p>放水による没水影響評価のうち、判定基準に対し裕度が小さいエリアについて、放水や作業員の移動に伴う水面のゆらぎの影響を検討した。</p> <p>裕度の小さい設備は、ファン、電気盤である。</p> <p>電気盤には筐体があるため盤周囲で水面のゆらぎが生じても筐体が防護カバーの役割を果たし、筐体内部の水面はほぼ静定状態となる。また、消火栓からの放水時は作業員が火災源に対し消火を行うことから、防護対象設備への溢水の伝播による水面のゆらぎの影響は小さいと考える。</p> <p>なお、発電所における消火活動に関する標準類において、建屋内の火災に対しては、消火器による初期活動を基本としているが、火災の状況により消火栓を使用する場合の注意事項として、次のように規定している。</p> <ul style="list-style-type: none"> ・消火栓使用時は、必ず当直課長に確認する。 ・水を使用する消火活動は、付近の機器及びプラントへの影響等を考慮し、放水方向に注意するものとする。 <p>建屋内での火災では、状況に応じて消火栓の調節弁を調整しながら消火活動を実施すると考えられ、火災荷重に基づく等価火災時間を用いて2600/minの消火水を放水すると想定している評価であり、溢水量評価として保守性を有すると考える。また、スプリンクラーからの放水量については、火災防護において、設計上考慮する放水量を用いて溢水影響評価を実施している。</p> <p>その上で、さらなる安全性向上対策として水面のゆらぎ対策（堰の設置等）を実施する。</p> <p>表1 放水による影響に対する対策を実施する防護対象設備</p> <table border="1"> <thead> <tr> <th>号炉</th> <th>E.L. + [m]</th> <th>滞留エリア番号</th> <th>①没水水位 [m]</th> <th>防護対象設備</th> <th>②機能喪失高さ [m]</th> <th>裕度 ②-① [m]</th> <th>対策</th> </tr> </thead> <tbody> <tr> <td rowspan="2">3号炉</td> <td>17.1</td> <td>3EB-N12B</td> <td>0.301</td> <td>3A, 3B制御用空気圧縮機室給気ファン</td> <td>0.300</td> <td>-0.001</td> <td>堰の設置</td> </tr> <tr> <td>17.1</td> <td>3EB-N13B</td> <td>0.059</td> <td>3原子炉トリップ遮断器盤(3RTS)</td> <td>0.040</td> <td>-0.019</td> <td>堰の設置</td> </tr> <tr> <td rowspan="2">4号炉</td> <td>17.1</td> <td>4EB-N13B</td> <td>0.276</td> <td>4A, 4B制御用空気圧縮機室給気ファン</td> <td>0.310</td> <td>0.034</td> <td>堰の設置</td> </tr> <tr> <td>17.1</td> <td>4EB-N14B</td> <td>0.059</td> <td>4原子炉トリップ遮断器盤(4RTS)</td> <td>0.050</td> <td>-0.009</td> <td>堰の設置</td> </tr> </tbody> </table> | 号炉 | E.L. + [m] | 滞留エリア番号 | ①没水水位 [m] | 防護対象設備 | ②機能喪失高さ [m] | 裕度 ②-① [m] | 対策 | 3号炉 | 17.1 | 3EB-N12B | 0.301 | 3A, 3B制御用空気圧縮機室給気ファン | 0.300 | -0.001 | 堰の設置 | 17.1 | 3EB-N13B | 0.059 | 3原子炉トリップ遮断器盤(3RTS) | 0.040 | -0.019 | 堰の設置 | 4号炉 | 17.1 | 4EB-N13B | 0.276 | 4A, 4B制御用空気圧縮機室給気ファン | 0.310 | 0.034 | 堰の設置 | 17.1 | 4EB-N14B | 0.059 | 4原子炉トリップ遮断器盤(4RTS) | 0.050 | -0.009 | 堰の設置 | <p>(2) 消火水の放水による溢水</p> <p>消火水の放水による溢水影響評価（添付資料 26 参照）において、判定基準（機能喪失高さ>溢水水位）に対して裕度の小さい防護対象設備はなく、消火水の放水によるゆらぎ対策は不要であることを確認した。</p> | <p>(2) 消火水の放水による溢水</p> <p>消火水の放水による溢水影響評価（添付資料 22 参照）において、判定基準（機能喪失高さ>溢水水位）に対して裕度の小さい防護対象設備はなく、消火水の放水によるゆらぎ対策は不要であることを確認した。</p> <p>表2に消火水の放水により生じる溢水による影響に対して、裕度が最も小さい防護対象設備を示す。</p> <p>表2 放水による影響に対するゆらぎ影響評価結果</p> <table border="1"> <thead> <tr> <th>区画番号</th> <th>防護対象設備 (機器番号)</th> <th>没水水位 (m) ①</th> <th>機能喪失高さ (m) ②</th> <th>余裕 (m) ②-①</th> <th>対策</th> </tr> </thead> <tbody> <tr> <td>3AB-K-21</td> <td>3 A - 高圧注入ポンプ出口 C/V 外側連絡弁 (3V-SI-020A)</td> <td>0.827</td> <td>0.930</td> <td>0.103</td> <td>—^{※1}</td> </tr> </tbody> </table> <p>※1 機能喪失高さに対して必要な裕度を有していることから、ゆらぎ対策は不要であることを確認</p> | 区画番号 | 防護対象設備 (機器番号) | 没水水位 (m) ① | 機能喪失高さ (m) ② | 余裕 (m) ②-① | 対策 | 3AB-K-21 | 3 A - 高圧注入ポンプ出口 C/V 外側連絡弁 (3V-SI-020A) | 0.827 | 0.930 | 0.103 | — ^{※1} | <p>【大阪】</p> <p>記載方針の相違</p> <p>女川審査実績の反映</p> <p>消火水の放水による溢水に対して、女川、泊共にゆらぎ対策は必要ない。</p> <p>【女川】</p> <p>記載表現の相違</p> <p>記載方針の相違</p> <p>4. (1) 項の記載に合わせ裕度が最も小さい防護対象設備を示し、ゆらぎ対策が不要であることが分かるよう記載している。</p> <p>【女川】</p> <p>記載表現の相違</p> <p>設計方針の相違</p> <p>設備配置による相違</p> <p>記載方針の相違</p> <p>対策実施設備が無いことによる表題の相違</p> |
| 号炉 | E.L. + [m] | 滞留エリア番号 | ①没水水位 [m] | 防護対象設備 | ②機能喪失高さ [m] | 裕度 ②-① [m] | 対策 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3号炉 | 17.1 | 3EB-N12B | 0.301 | 3A, 3B制御用空気圧縮機室給気ファン | 0.300 | -0.001 | 堰の設置 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17.1 | 3EB-N13B | 0.059 | 3原子炉トリップ遮断器盤(3RTS) | 0.040 | -0.019 | 堰の設置 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4号炉 | 17.1 | 4EB-N13B | 0.276 | 4A, 4B制御用空気圧縮機室給気ファン | 0.310 | 0.034 | 堰の設置 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17.1 | 4EB-N14B | 0.059 | 4原子炉トリップ遮断器盤(4RTS) | 0.050 | -0.009 | 堰の設置 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 区画番号 | 防護対象設備 (機器番号) | 没水水位 (m) ① | 機能喪失高さ (m) ② | 余裕 (m) ②-① | 対策 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3AB-K-21 | 3 A - 高圧注入ポンプ出口 C/V 外側連絡弁 (3V-SI-020A) | 0.827 | 0.930 | 0.103 | — ^{※1} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|------------|-------------|-------------|------------|----|-----|-----|--------|-------|-----------|-------|-------|------|-----|--------|-------|-----------|-------|-------|------|-----|-----|--------|-------|-----------|-------|-------|------|-----|--------|-------|-----------|-------|--------|------|--|---|------|---------------|------------|--------------|------------|----|---------|---------------------|-------|-------|-------|-----|--|
| <p>(2)地震に起因する影響評価</p> <p>地震に起因する没水影響評価のうち、判定基準に対し裕度が小さいエリアについて、溢水の伝播に伴う水面のゆらぎの影響を検討した。</p> <p>裕度の小さい設備は、高圧注入ポンプである。</p> <p>当該エリアの溢水の伝播は、階段及び機器ハッチであるが、当該設備は、機器ハッチからは十分な距離が離れていることから、溢水の伝播による水面のゆらぎの影響は小さいと考える。</p> | <p>(3)地震起因による溢水</p> <p>地震起因による没水影響評価（添付資料28参照）において、判定基準（機能喪失高さ>溢水水位）に対して裕度の小さい防護対象設備はなく、地震起因の溢水によるゆらぎ対策は不要であることを確認した。</p> | <p>(3)地震起因による溢水</p> <p>地震起因による溢水影響評価（添付資料24参照）において、判定基準（機能喪失高さ>溢水水位）に対して裕度の小さい防護対象設備はなく、地震起因の溢水によるゆらぎ対策は不要であることを確認した。</p> <p>表3に地震起因により生じる溢水による影響に対して、裕度が最も小さい防護対象設備を示す。</p> | <p>【大阪】 記載方針の相違 女川審査実績の反映 消火水の放水による溢水に対して、女川、泊共にゆらぎ対策は必要ない。</p> <p>【女川】 記載表現の相違 記載方針の相違 4.(1)項の記載に合わせ裕度が最も小さい防護対象設備を示し、ゆらぎ対策が不要であることが分かるよう記載している。</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>表2 地震に起因する影響に対する対策を実施する防護対象設備</p> <table border="1" data-bbox="114 790 674 1045"> <thead> <tr> <th>号炉</th> <th>E.L. + [m]</th> <th>滞留エリア番号</th> <th>①溢水水位 [m]</th> <th>防護対象設備</th> <th>②機能喪失高さ [m]</th> <th>裕度 ②-① [m]</th> <th>対策</th> </tr> </thead> <tbody> <tr> <td rowspan="2">3号炉</td> <td>3.5</td> <td>3EB-12</td> <td>0.498</td> <td>3A高圧注入ポンプ</td> <td>0.500</td> <td>0.002</td> <td>堰の設置</td> </tr> <tr> <td>3.5</td> <td>3EB-13</td> <td>0.396</td> <td>3B高圧注入ポンプ</td> <td>0.500</td> <td>0.104</td> <td>堰の設置</td> </tr> <tr> <td rowspan="2">4号炉</td> <td>3.5</td> <td>4EB-12</td> <td>0.440</td> <td>4B高圧注入ポンプ</td> <td>0.500</td> <td>0.060</td> <td>堰の設置</td> </tr> <tr> <td>3.5</td> <td>4EB-13</td> <td>0.516</td> <td>4A高圧注入ポンプ</td> <td>0.500</td> <td>-0.016</td> <td>堰の設置</td> </tr> </tbody> </table> | 号炉 | E.L. + [m] | 滞留エリア番号 | ①溢水水位 [m] | 防護対象設備 | ②機能喪失高さ [m] | 裕度 ②-① [m] | 対策 | 3号炉 | 3.5 | 3EB-12 | 0.498 | 3A高圧注入ポンプ | 0.500 | 0.002 | 堰の設置 | 3.5 | 3EB-13 | 0.396 | 3B高圧注入ポンプ | 0.500 | 0.104 | 堰の設置 | 4号炉 | 3.5 | 4EB-12 | 0.440 | 4B高圧注入ポンプ | 0.500 | 0.060 | 堰の設置 | 3.5 | 4EB-13 | 0.516 | 4A高圧注入ポンプ | 0.500 | -0.016 | 堰の設置 | <p>5. 没水影響評価における保守性について</p> <p>(1) 溢水量を算出する際に、以下を考慮している。</p> <ul style="list-style-type: none"> ・配管施工図を使用した場合は、計算値に10%を加味し保有水量を設定。 ・平面図を使用した場合は、計算値に50%を加味し保有水量を設定。 ・計算結果を10m³単位で切り上げ。 | <p>表3 地震に起因する影響に対するゆらぎ影響評価結果</p> <table border="1" data-bbox="1288 821 1848 1045"> <thead> <tr> <th>区画番号</th> <th>防護対象設備 (機器番号)</th> <th>没水水位 (m) ①</th> <th>機能喪失高さ (m) ②</th> <th>余裕 (m) ②-①</th> <th>対策</th> </tr> </thead> <tbody> <tr> <td>3AB-L-8</td> <td>3A-高圧注入ポンプ (3SIP1A)</td> <td>0.208</td> <td>0.320</td> <td>0.112</td> <td>—※1</td> </tr> </tbody> </table> <p>※1 機能喪失高さに対して必要な余裕を有していることから、ゆらぎ対策は不要であることを確認</p> | 区画番号 | 防護対象設備 (機器番号) | 没水水位 (m) ① | 機能喪失高さ (m) ② | 余裕 (m) ②-① | 対策 | 3AB-L-8 | 3A-高圧注入ポンプ (3SIP1A) | 0.208 | 0.320 | 0.112 | —※1 | <p>【大阪】 記載表現の相違 設計方針の相違 設備配置による相違 記載方針の相違 対策実施設備が無いことによる表題の相違</p> |
| 号炉 | E.L. + [m] | 滞留エリア番号 | ①溢水水位 [m] | 防護対象設備 | ②機能喪失高さ [m] | 裕度 ②-① [m] | 対策 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3号炉 | 3.5 | 3EB-12 | 0.498 | 3A高圧注入ポンプ | 0.500 | 0.002 | 堰の設置 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.5 | 3EB-13 | 0.396 | 3B高圧注入ポンプ | 0.500 | 0.104 | 堰の設置 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4号炉 | 3.5 | 4EB-12 | 0.440 | 4B高圧注入ポンプ | 0.500 | 0.060 | 堰の設置 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.5 | 4EB-13 | 0.516 | 4A高圧注入ポンプ | 0.500 | -0.016 | 堰の設置 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 区画番号 | 防護対象設備 (機器番号) | 没水水位 (m) ① | 機能喪失高さ (m) ② | 余裕 (m) ②-① | 対策 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3AB-L-8 | 3A-高圧注入ポンプ (3SIP1A) | 0.208 | 0.320 | 0.112 | —※1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>12-2 没水評価における保守性及びゆらぎ対策について</p> <p>防護対象設備の機能喪失高さの余裕及び保守性並びにゆらぎ対策について検討した。</p> <p>1. 没水影響評価における各フロアの溢水水位算出の保守性</p> <p>(1) 各フロアの溢水水位が高くなるように、意図的に溢水防護区画を細分化した。</p> | <p>(1) 溢水量を算出する際に、以下を考慮している。</p> <ul style="list-style-type: none"> ・配管施工図を使用した場合は、計算値に10%を加味し保有水量を設定。 ・平面図を使用した場合は、建屋外部の3辺（縦、横、高さ）にルートされ、かつ往復していると仮定し、配管サイズを系統の最大径として保有水量を設定する。 ・計算結果を10m³単位で切り上げて保有水量を設定。 | <p>5. 没水影響評価における保守性について</p> <p>(1) 溢水量を算出する際に、以下を考慮している。</p> <ul style="list-style-type: none"> ・配管施工図を使用した場合は、計算値に10%を加味し保有水量を設定。 ・平面図を使用した場合は、建屋外部の3辺（縦、横、高さ）にルートされ、かつ往復していると仮定し、配管サイズを系統の最大径として保有水量を設定する。 ・計算結果を10m³単位で切り上げて保有水量を設定。 | <p>【大阪】 記載方針の相違 女川審査実績の反映</p> <p>【女川】 設計方針の相違 泊では、保有水量の算出において機器配置図を使用した場合は、建屋の縦横上下に往復していると仮定して、さらに配管サイズも系統の最大径とすることで保守性を十分に確保している。（補足説明資料1の比較表に詳述）</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|--|---|---|---|
| <p>(2) 区画外漏えいの溢水経路に沿った没水評価では、通路の溢水水位が低くならないように通路を流れる溢水水位と各区画内の防護対象機器の機能喪失高さを比較した。(通路の滞留面積に各区画の滞留面積を加えると水位が低くなるため)</p> <p>(3) 溢水防護区画内に設置されている床ドレンについては、溢水水位が高くなるように他の区画へ流出しない設定とした。</p> <div data-bbox="116 699 678 1050" style="border: 2px solid blue; width: 251px; height: 220px; margin: 10px 0;"></div> <p>図1 溢水水位算出の保守性(原子炉周辺建屋 E.L.+3.5m の例)</p> <div data-bbox="125 1106 674 1150" style="border: 1px solid black; padding: 2px; margin: 10px 0;"> <p>枠囲みの範囲は機密に係る事項ですので公開することはできません。</p> </div> <p>以上の評価を実施していることで保守性を確保しているが、さらなる対策としてゆらぎについて検討した。</p> | <p>(2) 機能喪失高さの設定に当たっては、床勾配分を考慮している。</p> <div data-bbox="703 308 1256 523" style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>【島根2号炉】まとめ資料 p.9 条-別添 1-5-9 より抜粋</p> <ul style="list-style-type: none"> ・溢水水位その1 <p>溢水量と滞留面積より溢水水位を算出した。 溢水水位 [m] = 溢水量[m³] / 滞留面積[m²] + 床勾配 [m]</p> </div> <p>(3) 溢水防護区画内に設置されている床ドレンについては、溢水水位が高くなるように他の区画へ流出しない設定としている。</p> <p>没水影響評価においては、以上のように保守性を確保しているが、表1に記載したとおり、ゆらぎ対策を実施する。</p> | <p>(2) 溢水水位の算出に当たっては、床勾配分を考慮している。</p> <p>(3) 溢水防護区画内に設置されている床ドレンについては、溢水水位が高くなるように他の区画へ流出しない設定としている。</p> <p>没水影響評価においては、以上のように保守性を確保しているが、すべての防護対象設備に対して、人員の移動により生じるゆらぎを考慮した0.1mの裕度を確保できていることを確認した。</p> | <p>【女川】 <u>設計方針の相違</u> 床勾配の考慮について、女川は機能喪失高さの設定時に一律考慮しているのに対し、泊では溢水水位の算出において床勾配を考慮している(島根、大阪(次ページ)と同様)</p> <p>【大阪】 <u>記載方針の相違</u> 女川審査実績の反映 <u>記載表現の相違</u></p> <p>【女川】 <u>設計方針の相違</u> ・女川では、機能喪失高さとして防護対象設備の設置レベル(例：弁が設置される配管の中心レベル)を使用しており、0.1mの裕度を満足しないケースがある。 ・泊では、機能喪失高さとして保守的に機能喪失すると仮定した高さである「評価高さ(基本設定箇所)」を標準としているが、評価高さで没水してしまう機器については「実力高さ(個別測定箇所)」を適用して没水評価の判定を行い、すべての防護対象設備が0.1mの裕度を満足しているため、ゆらぎ対策を適用した防護対象設備がない。(添付資料5の比較表に詳述)</p> |

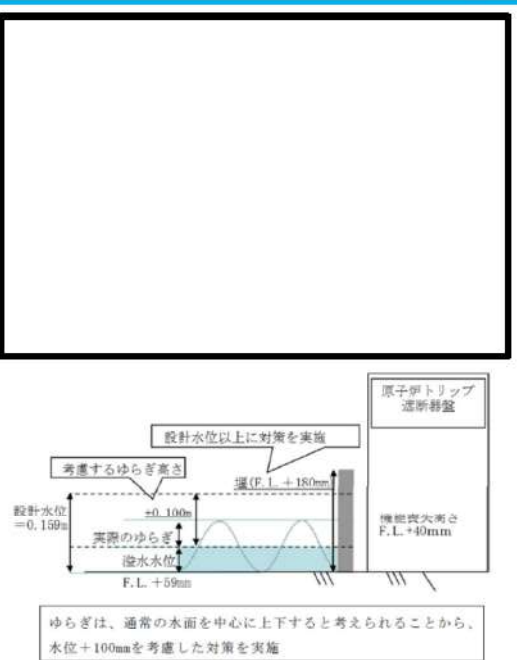
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第9条 溢水による損傷の防止等（別添1補足説明資料43）

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|---|-------------|---------|---|
| <p>2. ゆらぎ対策の考え方</p> <p>溢水水位とは、溢水量と滞留面積から算出され、「床勾配を考慮」とは、無条件に溢水水位に0.050mを上乗せした値である。したがって、実際の溢水水位が0.057mであり、床勾配があれば、0.050mを上乗せし、溢水水位が0.107mとなる。防護対象設備の没水評価では実際の溢水水位に床勾配を考慮した溢水水位で評価を行っている。</p> <p>ゆらぎは、実際の溢水水位以上にゆらぐことはないので、ゆらぎを考慮した溢水水位は、溢水水位に0.100mを上乗せすることで保守的となる。</p> <p>ゆらぎを考慮した溢水水位を設計水位とし、没水対策は、設計水位以上の高さとなるよう実施する。</p> <div data-bbox="129 587 678 1034" style="border: 1px solid blue; padding: 5px;"> <p>図2 ゆらぎを考慮した溢水水位の考え方</p> </div> | | | <p>【大阪】 記載方針の相違 女川審査実績の反映</p> |

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|---|-------------|---------|---|
| <p>3. ゆらぎの対策例(案) (4 原子炉トリップ遮断器盤)</p> <p>図3のとおり、E.L. +17.1mの溢水水位 F.L. +59mmにゆらぎ対策（100mm）分を考慮して堰（F.L. +180mm）を設置する。</p>  <p>図3 ゆらぎ対策の考え方及び対策例</p> <p>枠囲みの範囲は機密に係る事項ですので公開することはできません。</p> | | | <p>【大阪】</p> <p>記載方針の相違</p> <p>女川審査実績の反映</p> |

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|--|-------------|---|---|
| <p style="text-align: right;">添付資料 6</p> <p style="text-align: center;">経年劣化事象の検討</p> <p>1. 経年劣化事象の考慮</p> <p>原子力発電所で使用されている配管については、機器、弁等の定期的な開放点検時の配管内部の目視点検、漏えい試験、日常点検（巡視点検等）等により有意な劣化がないことを確認するとともに、クラス1～3配管については供用期間中検査において非破壊試験、漏えい試験等により有意な欠陥等がないことを確認している。また、このような保全に加え、過去の運転経験に基づき個別の経年劣化事象に着目した評価及び点検並びに予防保全を実施している。</p> <p>経年劣化事象と保全内容を表1に示す。</p> | | <p style="text-align: right;">補足説明資料 44</p> <p style="text-align: center;">経年劣化事象の検討</p> <p>1. 経年劣化事象の考慮</p> <p>原子力発電所で使用されている配管については、機器、弁等の定期的な開放点検時の配管内部の目視点検、漏えい試験、日常点検（巡視点検等）等により有意な劣化がないことを確認するとともに、クラス1～3配管については供用期間中検査において非破壊試験、漏えい試験等により有意な欠陥等がないことを確認している。また、このような保全に加え、過去の運転経験に基づき個別の経年劣化事象に着目した評価及び点検並びに予防保全を実施している。</p> <p>経年劣化事象と保全内容を表1に示す。</p> | <p>【女川・大阪】</p> <p><u>記載方針の相違</u></p> <ul style="list-style-type: none"> ・大阪審査実績の反映 ・経年劣化事象に対する考慮及び保全内容を明記し、大阪の記載を参照し相違理由について説明する。 |

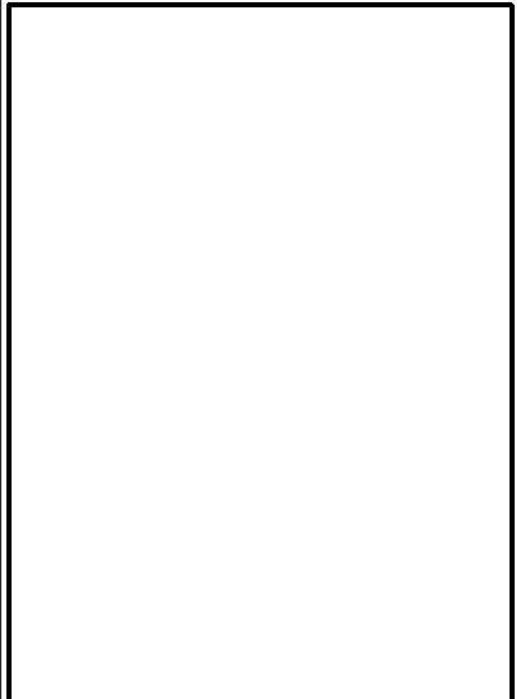
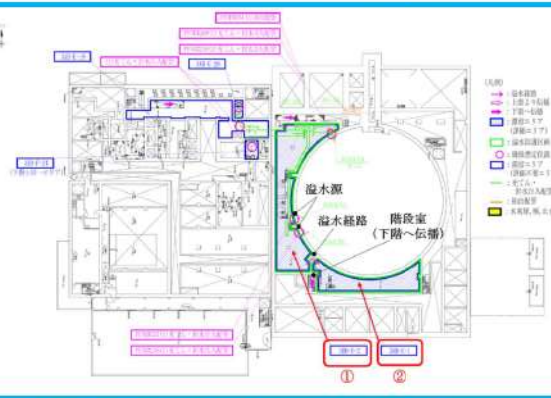
赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

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|----------------|------|--|--|----------------|--|---|--|
| 表1 経年劣化事象と保全内容 | | | | 表1 経年劣化事象と保全内容 | | | |
| 経年劣化事象 | 保全内容 | | 系統 | 経年劣化事象 | 保全内容 | 系統 | |
| 腐食 | 疲労 | <ul style="list-style-type: none"> ・ 供用期間中検査により超音波探傷試験、表面試験、漏えい試験等を実施し有意な欠陥のないことを確認している。 ・ 日本機械学会基準「配管の高サイクル熱疲労に関する評価指針」にしたがって、1次冷却系、化学体積制御系、余熱除去系における高サイクル熱疲労割れの発生可能性を評価し、損傷の発生が否定できないと評価された配管については非破壊検査を実施するとともに、その後取替を行っている。 ・ PWSCCが懸念されるInconel 690合金部位について、690合金への取替えや「ボンパ」施工により応力緩和を図っている。 | 1次冷却系 化学体積制御系 安全注入系 余熱除去系 格納容器スプレイス系 主蒸気系 主給水系 燃料ピット 冷却浄化系 原子炉補機冷却系 非常用電源系 | 疲労 | <ul style="list-style-type: none"> ・ 供用期間中検査により超音波探傷試験、表面試験、漏えい試験等を実施し有意な欠陥のないことを確認している。 ・ 高サイクル熱疲労割れについて、設計段階において日本機械学会基準「配管の高サイクル熱疲労に関する評価指針」に基づく評価を実施し、熱疲労損傷を防止する配管配置により高サイクル熱疲労割れが発生する可能性はない。 ・ PWSCCが懸念される部位について、設計段階においてInconel 690合金を採用し、応力緩和を図っている。 | 1次冷却系 化学体積制御系 安全注入系 余熱除去系 原子炉格納容器スプレイス系 主蒸気系 主給水系 使用済燃料ピット 水浄化冷却系 原子炉補機冷却系 非常用所内電源系 | 【大阪】 設備名称の相違 設計方針の相違 ・ 泊においては、設計時より配管の高サイクル熱疲労割れを防止する配管配置としていること、及び、PWSCCに対し応力緩和を目的とした材質を採用している。 以上より、大阪の保全内容に記載されている配管取替については、泊では記載していない。（建設工認「高サイクル熱疲労に関する説明書」による） ・ 泊においては、設計時より主給水系の配管は低合金鋼を採用しており、流れ加速型腐食（減肉）の対策を実施していることから対象系統としていない。 |
| | 腐食 | <ul style="list-style-type: none"> ・ 日常点検（巡視点検等）、配管外観検査、振動測定等により配管に異常のないことを確認している。 ・ 日本機械学会「加圧水型原子力発電所配管減肉管理に関する技術規格」に基づき、減肉が想定される系統に対して超音波厚さ測定を実施している。 ・ 日常点検（巡視点検等）、配管外観検査等により配管に異常のないことを確認している。 | 主給水系 蒸気発生器ブローダウン系 | 腐食 | <ul style="list-style-type: none"> ・ 日本機械学会「加圧水型原子力発電所配管減肉管理に関する技術規格」に基づき、減肉が想定される系統に対して超音波厚さ測定を実施している。 ・ 日常点検（巡視点検等）、配管外観検査等により配管に異常のないことを確認している。 | 蒸気発生器ブローダウン系 | |
| | 腐食 | <ul style="list-style-type: none"> ・ 海水を内包する配管については、防食を目的としたライニングを行っている。また、定期的にピンホール検査や肉厚測定を実施し、健全性を確認している。 ・ 日常点検（巡視点検等）、配管外観検査等により配管に異常のないことを確認している。 | 原子炉補機冷却系 | 腐食 | <ul style="list-style-type: none"> ・ 海水を内包する配管については、防食を目的としたライニングを行っている。また、定期的にピンホール検査や肉厚測定を実施し、健全性を確認している。 ・ 日常点検（巡視点検等）、配管外観検査等により配管に異常のないことを確認している。 | 原子炉補機冷却海水系 | |

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|------------|---|---|---|
| | <p style="text-align: right;">補足説明資料 13</p> <p>溢水伝播フロー図について</p>  <p>【伝播フロー図中の代表的な凡例】</p> <ul style="list-style-type: none"> ・赤色の区画は、溢水発生区画 ・青色の区画は、溢水が伝播する区画 ・実線の区画は、防護区画で、点線の区画はその他区画 ・矢印は溢水伝播の方向 ・黄色で示しているのは、止水に期待する設備 | <p style="text-align: right;">補足説明資料 45</p> <p>溢水伝播経路の設定について</p> <p>1. 溢水伝播フロー図について</p>  <p>【伝播フロー図中の代表的な凡例】</p> <ul style="list-style-type: none"> ・実線の区画は、防護区画で、点線の区画はその他区画 ・矢印は溢水伝播の方向 ・黄色で示しているのは、止水に期待する設備 | <p>【女川】</p> <p><u>記載方針の相違</u></p> <ul style="list-style-type: none"> ・BWRは溢水伝播フロー図を用いて実際に没水評価を行っているのに対し、PWRは、地震・想定破損・消火水の評価ケースごとに溢水伝播経路図を作成することで溢水経路を特定し、没水影響評価結果整理表にて没水評価を実施している。（PWR共通） ・そのため、溢水伝播フロー図には各区画の接続状況や滞留面積等を整理し、溢水発生の有無や隣接区画への溢水伝播の有無については溢水伝播経路図にて整理している。 ・女川の【伝播フロー図の代表的な凡例】については、泊の溢水伝播経路図及び没水影響評価結果整理表でどのように示しているかを次頁以降に記載している。 |

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 青字：記載箇所又は記載内容の相違（記載方針の相違）
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| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | |
|---|--|--|------|-------------|-----------|-----|---------------------------|-------------------------|---------------|---------------------|--|-------------------|---------------------|--|-----------|-------------|---|--|
| <p>【大阪3,4号炉】まとめ資料 添付資料 2-9-別1-369より抜粋</p>  <p>枠組みの範囲は機密に係る事項ですので公開することはできません。</p> | <p>（前頁の再掲）</p> <p>【伝播フロー図中の代表的な凡例】</p> <ul style="list-style-type: none"> ・赤色の区画は、溢水発生区画 ・青色の区画は、溢水が伝播する区画 ・実線の区画は、防護区画で、点線の区画はその他区画 ・矢印は溢水伝播の方向 ・黄色で示しているのは、止水に期待する設備 <p>【溢水伝播の説明】</p> <p>1. ①の区画で溢水が発生。①は防護区画のため、溢水量を全量貯留した際の溢水水位を算出。</p> | <p>2. 溢水伝播経路図及び没水影響評価結果整理表について</p> <p>溢水伝播経路図にて溢水経路を特定し、没水影響評価整理表にて評価を実施した。溢水伝播経路図の凡例及び没水影響評価結果整理表における評価内容を表1に示す。</p> <p>表1 溢水伝播経路図の凡例及び没水影響評価結果整理表における評価内容</p> <table border="1" data-bbox="1288 518 1859 805"> <thead> <tr> <th></th> <th>溢水伝播経路図（凡例）</th> <th>没水評価結果整理表</th> </tr> </thead> <tbody> <tr> <td>溢水源</td> <td>○：地震・想定破損における溢水源 ■：消火栓</td> <td>・溢水源が設置されているエリアは青色セルで表示</td> </tr> <tr> <td>溢水経路 滞留エリア</td> <td>→：溢水経路 □：溢水滞留エリア</td> <td>・溢水経路を考慮して滞留エリアを設定 ・建屋間の伝播を考慮する場合は備考に記載</td> </tr> <tr> <td>上階からの伝播 下階への伝播</td> <td>⇨：上階より伝播 ⇩：下階へ伝播</td> <td>・上階から下階へ溢水量の全量が伝播 ・階段室等の伝播経路、伝播先となる上階及び下階のエリア番号は備考に記載</td> </tr> <tr> <td>止水に期待する設備</td> <td>■：堰、水密扉、止水板</td> <td>・水密扉、堰等の止水に期待できる設備が設置されている場合は防護区画への溢水流入は考慮しない</td> </tr> </tbody> </table> <p>【溢水伝播の説明】</p> <p>（1）①の溢水源が設置される区画で溢水が発生。①は防護区画のため、溢水量を全量貯留した際の溢水水位を算出。</p>  <p>図1 想定破損（化学体積制御系）による溢水伝播経路図 (T. P. 17. 8m 中間床)</p> | | 溢水伝播経路図（凡例） | 没水評価結果整理表 | 溢水源 | ○：地震・想定破損における溢水源 ■：消火栓 | ・溢水源が設置されているエリアは青色セルで表示 | 溢水経路 滞留エリア | →：溢水経路 □：溢水滞留エリア | ・溢水経路を考慮して滞留エリアを設定 ・建屋間の伝播を考慮する場合は備考に記載 | 上階からの伝播 下階への伝播 | ⇨：上階より伝播 ⇩：下階へ伝播 | ・上階から下階へ溢水量の全量が伝播 ・階段室等の伝播経路、伝播先となる上階及び下階のエリア番号は備考に記載 | 止水に期待する設備 | ■：堰、水密扉、止水板 | ・水密扉、堰等の止水に期待できる設備が設置されている場合は防護区画への溢水流入は考慮しない | <p>【大阪】 記載方針の相違 女川審査実績の反映</p> <p>【女川】 記載表現の相違 設計方針の相違</p> <ul style="list-style-type: none"> ・BWRは溢水伝播フロー図を用いて実際に没水評価を行っているのに対し、PWRは、地震・想定破損・消火水の評価ケースごとに溢水伝播経路図を作成することで溢水経路を特定し、没水影響評価結果整理表にて没水評価を実施している。（PWR共通） ・そのため、表1には女川の伝播フロー図の代表的な凡例に対応する項目について、泊の溢水伝播経路図及び没水影響評価結果整理表でどのように示しているかを記載している。 <p>記載方針の相違 泊は①区画に溢水源が設置されていることを明記している。</p> |
| | 溢水伝播経路図（凡例） | 没水評価結果整理表 | | | | | | | | | | | | | | | | |
| 溢水源 | ○：地震・想定破損における溢水源 ■：消火栓 | ・溢水源が設置されているエリアは青色セルで表示 | | | | | | | | | | | | | | | | |
| 溢水経路 滞留エリア | →：溢水経路 □：溢水滞留エリア | ・溢水経路を考慮して滞留エリアを設定 ・建屋間の伝播を考慮する場合は備考に記載 | | | | | | | | | | | | | | | | |
| 上階からの伝播 下階への伝播 | ⇨：上階より伝播 ⇩：下階へ伝播 | ・上階から下階へ溢水量の全量が伝播 ・階段室等の伝播経路、伝播先となる上階及び下階のエリア番号は備考に記載 | | | | | | | | | | | | | | | | |
| 止水に期待する設備 | ■：堰、水密扉、止水板 | ・水密扉、堰等の止水に期待できる設備が設置されている場合は防護区画への溢水流入は考慮しない | | | | | | | | | | | | | | | | |

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|------------|---|---|--|
| | <p>4. ③に溢水が伝播。③は防護区画であるが、溢水を積極的に流す階段があるため、溢水水位（評価高さ）は低く抑えられる。（開口部からの流出については、定量的な評価を実施）</p> <p>5. ④及び⑤はその他区画であり、③の開口により溢水量全量が流入することはないため、溢水量を記載する欄へは「流入有」とのみ記載。その他の項目は「-」。</p> | <p>(5) ④の溢水源が設置される区画で溢水が発生（3AB-H-9）。④は防護区画であるが、溢水を積極的に流す開口部があるため、溢水水位（評価高さ）は低く抑えられる（開口部からの流出については、定量的な評価を実施）。</p> <p>図4 想定破損（化学体積制御系）による溢水伝播経路図 (T.P. 10. 3m)</p> <p>枠囲みの内容は機密情報に属しますので公開できません。</p> <p>図5 想定破損（化学体積制御系）による没水影響評価結果整理表（例2）</p> | <p>【女川】 <u>記載方針の相違</u> ・区画及び溢水経路の相違により、例示区画の評価内容の違いに応じた記載内容とし、女川では防護区画外からの伝播を記載しているが泊では防護区画内の溢水発生を記載している。また、溢水を下階に流すための開口は、女川は階段であるが泊は開口部としている。 ・泊は溢水伝播の説明と併せて溢水伝播経路図及び没水影響評価結果整理表の例を示している。 <u>設計方針の相違</u> プラント設計の相違による</p> <p>【女川】 <u>記載方針の相違</u> ・区画及び溢水経路の相違により、例示区画の評価内容の違いに応じた記載内容としているため、泊は防護対象区画のみを記載しており、その他区画については記載していない。</p> |

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| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|------------|---|--|--|
| | <p>7. ⑥に溢水量全量が伝播するものとして、溢水水位（評価高さ）を算出。</p> <p>8. ⑦、⑨、⑩と⑧の間には堰を設置するため、溢水の伝播はない。</p> <p>9. 上記で実施した、溢水水位（評価高さ）と機能喪失高さを比較することで、機能喪失を判定。</p> | <p>(6) 止水を期待できる堰等が設置されている区画には、溢水の伝播はない。</p> <p>図6 想定破損（補助蒸気系）による溢水伝播経路図 (T.P. 17. 8m)</p> <p>図7 想定破損（補助蒸気系）による没水影響評価結果整理表 (例3)</p> <p>(7) 上記で実施した、溢水水位（評価高さ）と機能喪失高さを比較することで、機能喪失を判定。</p> | <p>【女川】</p> <p>記載方針の相違</p> <ul style="list-style-type: none"> ・女川は7. に隣接区画への伝播（⑧⇒⑥）について記載しているが、泊は3. の考え方と同様であるため記載は省略している。 ・区画及び溢水経路の相違により、例示区画の評価内容の違いに応じた記載内容としている。 ・泊は溢水伝播の説明と併せて溢水伝播経路図及び没水影響評価結果整理表の例を示している。 |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|------------|--|---|---|
| | <p style="text-align: right;">補足説明資料 38</p> <p>重大事故等対処設備を対象とした溢水防護の基本方針について</p> <p>本補足説明資料については、第四十三条の審査資料に統合する。</p> | <p style="text-align: right;">補足説明資料 46</p> <p>重大事故等対処設備を対象とした溢水防護の基本方針について</p> <p>重大事故等対処設備を対象とした溢水防護の基本方針については、第四十三条の審査資料で説明する。</p> | <p>【大阪】</p> <p>記載方針の相違</p> <p>女川審査実績の反映</p> <p>【女川】</p> <p>記載表現の相違</p> <p>記載方針の相違</p> <p>資料の作成方針（資料構成）の相違による。</p> |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <p style="text-align: right;">補足説明資料1</p> <p>防護区画内の溢水源となりうる系統</p> <p>原子炉建屋(1/17)</p> <table border="1" data-bbox="696 272 1272 1098"> <thead> <tr> <th></th> <th>R-R3F-1</th> <th>R-R3F-2</th> <th>R-R3F-3</th> <th>R-R3F-4</th> <th>R-R3F-5</th> <th>R-R3F-6</th> <th>R-R3F-7</th> </tr> </thead> <tbody> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CRD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SLC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-A</td><td>-</td><td>-</td><td>□</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>□</td><td>-</td></tr> <tr><td>RHR-C</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>□</td><td>□</td></tr> <tr><td>LIVCS</td><td>-</td><td>-</td><td>-</td><td>□</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPVS</td><td>-</td><td>○*</td><td>-</td><td>○*</td><td>□</td><td>○*</td><td>○*</td></tr> <tr><td>RCIC</td><td>-</td><td>□</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CEW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FPC</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>RD</td><td>○</td><td>○</td><td>○</td><td>-</td><td>○</td><td>○</td><td>-</td></tr> <tr><td>LCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MURP</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>MURC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FR</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FRMUR</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>○</td></tr> <tr><td>HNCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HNCW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HNCW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>RCW-A/E</td><td>-</td><td>-</td><td>○</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-B/N</td><td>○</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-B/E</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>○</td></tr> <tr><td>RCW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>HPFW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HHH</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGPO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGPO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGPO(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MSC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>消火配管</td><td>○</td><td>○</td><td>-</td><td>○</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>衛生配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>25A以下配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> <p>【凡例】○：溢水源有 □：溢水源（想定破損除外） -：溢水源無 ○*：静水頭圧の配管</p> | | R-R3F-1 | R-R3F-2 | R-R3F-3 | R-R3F-4 | R-R3F-5 | R-R3F-6 | R-R3F-7 | FDW | - | - | - | - | - | - | - | CRD | - | - | - | - | - | - | - | SLC | - | - | - | - | - | - | - | RHR-A | - | - | □ | - | - | - | - | RHR-B | - | - | - | - | - | □ | - | RHR-C | - | - | - | - | - | □ | □ | LIVCS | - | - | - | □ | - | - | - | HPVS | - | ○* | - | ○* | □ | ○* | ○* | RCIC | - | □ | - | - | - | - | - | CEW | - | - | - | - | - | - | - | FPC | - | - | ○ | - | - | ○ | - | RD | ○ | ○ | ○ | - | ○ | ○ | - | LCW | - | - | - | - | - | - | - | HCW | - | - | - | - | - | - | - | SD | - | - | - | - | - | - | - | FDW | - | - | - | - | - | - | - | MURP | ○ | - | - | - | - | - | ○ | MURC | - | - | - | - | - | - | - | FR | - | - | - | - | - | - | - | FRMUR | - | - | - | - | - | ○ | ○ | HNCW | - | - | - | - | - | - | - | HNCW-A | - | - | - | - | - | - | - | HNCW-B | - | - | - | - | - | - | - | RCW-A/N | - | - | - | - | - | ○ | - | RCW-A/E | - | - | ○ | ○ | - | - | - | RCW-B/N | ○ | ○ | - | - | - | - | - | RCW-B/E | - | - | - | - | - | ○ | ○ | RCW-A | - | - | - | - | - | - | - | RCW-B | - | - | - | - | - | - | - | HPCW | - | - | - | - | ○ | - | - | HPFW | - | - | - | - | - | - | - | HHH | - | - | - | - | - | - | - | DGCW(A) | - | - | - | - | - | - | - | DGCW(B) | - | - | - | - | - | - | - | DGCW(D) | - | - | - | - | - | - | - | DGLO(A) | - | - | - | - | - | - | - | DGLO(B) | - | - | - | - | - | - | - | DGLO(D) | - | - | - | - | - | - | - | DGPO(A) | - | - | - | - | - | - | - | DGPO(B) | - | - | - | - | - | - | - | DGPO(D) | - | - | - | - | - | - | - | DGDO(A) | - | - | - | - | - | - | - | DGDO(B) | - | - | - | - | - | - | - | DGDO(D) | - | - | - | - | - | - | - | MSC | - | - | - | - | - | - | - | 消火配管 | ○ | ○ | - | ○ | ○ | - | - | 衛生配管 | - | - | - | - | - | - | - | 25A以下配管 | - | - | - | - | - | - | - | | <p>【女川】</p> <p>記載方針の相違</p> <ul style="list-style-type: none"> ・泊では、想定破損については、添付資料10「溢水伝播経路図（平面図）」において、想定破損を考慮する配管の敷設ルートを明示しており、どの区画に溢水源があるか確認することが可能である。また、添付資料17「想定破損による設水影響評価結果」において、溢水源エリアを明記しており、溢水源が敷設されている区画を確認することが可能である。地震起因の溢水についても同様に、添付資料10「溢水伝播経路図（平面図）」において、溢水源の配置を明示しており、どの区画に溢水源があるか確認することが可能である。また、添付資料24「地震起因による設水影響評価結果」において、溢水源が敷設されている区画を確認可能である。 ・これらの結果、想定破損及び地震起因の溢水において、溢水源となりうる区画の設置場所を適切に反映できている。 ・なお、泊では、多くの配管に対して、標準支持間隔法により応力評価を実施し、想定破損除外を適用している一方、女川では、想定破損除外を適用している配管が比較的少ないため、想定破損による溢水源が多い。そのため、溢水防護区画ごとに想定破損による溢水源を抽出し、その中から最大の溢水源に対して、溢水影響評価を実施しており、左記の表の形で整理することが有効であると考ええる。 <p>（次ページへ続く）</p> |
| | R-R3F-1 | R-R3F-2 | R-R3F-3 | R-R3F-4 | R-R3F-5 | R-R3F-6 | R-R3F-7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FDW | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CRD | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 消火配管 | ○ | ○ | - | ○ | ○ | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 25A以下配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <p>原子炉建屋(2/17)</p> <table border="1"> <thead> <tr> <th></th> <th>R-B3F-8</th> <th>R-B3F-9</th> <th>R-B3F-15</th> <th>R-B3F-10</th> <th>R-B3F-11</th> <th>R-B3F-12</th> <th>R-B3F-13</th> </tr> </thead> <tbody> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CED</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SLC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RBR-A</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RBR-B</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RBR-C</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LPDS</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>BPDS</td><td>○</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCIC</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CDW</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FPC</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>BD</td><td>-</td><td>○</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LCW</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HCW</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MHW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MWC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>FW</td><td>○</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RNCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HECW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HECW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/N</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/E</td><td>-</td><td>-</td><td>-</td><td>○</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>RCW-B/N</td><td>-</td><td>○</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-B/E</td><td>○</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>RSA-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSA-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>HPDS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>TRH</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLD(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLD(E)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLD(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFD(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFD(E)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFD(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDD(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDD(E)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDD(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MSC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>○</td><td>○</td></tr> <tr><td>消火配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>○</td><td>○</td></tr> <tr><td>衛生配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>25A以下配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> <p>【凡例】○：漏水源有 □：漏水源(想定破損除外) -：漏水源無 ○*：静水頭圧の配管</p> | | R-B3F-8 | R-B3F-9 | R-B3F-15 | R-B3F-10 | R-B3F-11 | R-B3F-12 | R-B3F-13 | FDW | - | - | - | - | - | - | - | CED | - | - | - | - | - | - | - | SLC | - | - | - | - | - | - | - | RBR-A | - | - | - | ○ | - | - | - | RBR-B | - | - | - | ○ | - | - | - | RBR-C | - | - | - | ○ | - | - | - | LPDS | - | - | - | ○ | - | - | - | BPDS | ○ | - | - | ○ | - | - | - | RCIC | - | - | - | ○ | - | - | - | CDW | - | - | ○ | - | - | - | - | FPC | - | - | - | ○ | - | - | - | BD | - | ○ | - | ○ | - | - | - | LCW | - | - | - | ○ | - | - | - | HCW | - | - | - | ○ | - | - | - | SD | - | - | - | - | - | - | - | FDW | - | - | - | - | - | - | - | MHW | - | - | - | - | - | - | - | MWC | - | - | - | - | - | - | - | FW | - | - | - | - | ○ | - | - | FW | ○ | - | - | ○ | - | - | - | RNCW | - | - | - | - | - | - | - | HECW-A | - | - | - | - | - | - | - | HECW-B | - | - | - | - | - | - | - | RCW-A/N | - | ○ | - | - | - | - | - | RCW-A/E | - | - | - | ○ | ○ | - | - | RCW-B/N | - | ○ | - | ○ | - | - | - | RCW-B/E | ○ | - | - | - | ○ | - | - | RSA-A | - | - | - | - | - | - | - | RSA-B | - | - | - | - | - | - | - | HPCW | - | - | - | - | - | - | ○ | HPDS | - | - | - | - | - | - | ○ | TRH | - | - | - | - | - | - | - | DGCW(A) | - | - | - | - | - | - | - | DGCW(B) | - | - | - | - | - | - | - | DGCW(D) | - | - | - | - | - | - | - | DGLD(A) | - | - | - | - | - | - | - | DGLD(E) | - | - | - | - | - | - | - | DGLD(H) | - | - | - | - | - | - | - | DGFD(A) | - | - | - | - | - | - | - | DGFD(E) | - | - | - | - | - | - | - | DGFD(H) | - | - | - | - | - | - | - | DGDD(A) | - | - | - | - | - | - | - | DGDD(E) | - | - | - | - | - | - | - | DGDD(H) | - | - | - | - | - | - | - | MSC | - | - | - | - | ○ | ○ | ○ | 消火配管 | - | - | - | - | ○ | ○ | ○ | 衛生配管 | - | - | - | - | - | - | - | 25A以下配管 | - | - | - | - | - | - | - | | <p>以上より、泊でも資料内で溢水源となりうる系統の敷設・設置場所を適切に反映できており、本補足説明資料の作成は不要であると判断する。</p> |
| | R-B3F-8 | R-B3F-9 | R-B3F-15 | R-B3F-10 | R-B3F-11 | R-B3F-12 | R-B3F-13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FDW | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CED | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLC | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RBR-A | - | - | - | ○ | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RBR-B | - | - | - | ○ | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RBR-C | - | - | - | ○ | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LPDS | - | - | - | ○ | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| DGDD(A) | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| MSC | - | - | - | - | ○ | ○ | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 25A以下配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <p>原子炉建屋(3/17)</p> <table border="1"> <thead> <tr> <th></th> <th>R-B2F-14</th> <th>R-B2F-1</th> <th>R-B2F-4</th> <th>R-B2F-2</th> <th>R-B2F-3</th> <th>R-B2F-5</th> <th>R-B2F-6</th> </tr> </thead> <tbody> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CRD</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SLC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-A</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-B</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-C</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LPFS</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPFS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>RC1C</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CUW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>FPC</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>BCWF</td><td>-</td><td>○</td><td>○</td><td>-</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>MEWC</td><td>-</td><td>○</td><td>○</td><td>-</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>FW</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>FPBW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>HNCW</td><td>-</td><td>○</td><td>○</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>HECW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HECW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/N</td><td>○</td><td>○</td><td>○</td><td>-</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>RCW-A/E</td><td>-</td><td>○</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-B/N</td><td>○</td><td>○</td><td>○</td><td>-</td><td>-</td><td>○</td><td>○</td></tr> <tr><td>RCW-B/E</td><td>○</td><td>○</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSW-B</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>HPW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HWH</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLD(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLD(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLD(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MSC</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>消火配管</td><td>○</td><td>○</td><td>-</td><td>○</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>衛生配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>23A以下配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> <p>【凡例】○：漏水源有 □：漏水源(想定破損除外) -：漏水源無 ○*：静水頭圧の配管</p> | | R-B2F-14 | R-B2F-1 | R-B2F-4 | R-B2F-2 | R-B2F-3 | R-B2F-5 | R-B2F-6 | FDW | - | - | - | - | - | - | - | CRD | - | - | ○ | - | - | - | - | SLC | - | - | - | - | - | - | - | RHR-A | - | ○ | - | - | - | - | - | RHR-B | - | - | ○ | - | - | - | - | RHR-C | - | - | ○ | - | - | - | - | LPFS | - | - | - | ○ | - | - | - | HPFS | - | - | - | - | ○ | - | - | RC1C | - | - | - | - | - | - | - | CUW | - | - | - | - | - | - | ○ | FPC | - | - | - | ○ | - | - | - | RD | - | - | - | - | - | - | - | LCW | - | - | - | - | - | - | - | RCW | - | - | - | - | - | - | - | SD | - | - | - | - | - | - | - | FDW | - | - | - | - | - | - | - | BCWF | - | ○ | ○ | - | - | - | ○ | MEWC | - | ○ | ○ | - | - | - | ○ | FW | ○ | - | - | - | - | ○ | - | FPBW | - | - | - | - | ○ | - | - | HNCW | - | ○ | ○ | - | - | ○ | - | HECW-A | - | - | - | - | - | - | - | HECW-B | - | - | - | - | - | - | - | RCW-A/N | ○ | ○ | ○ | - | - | - | ○ | RCW-A/E | - | ○ | - | ○ | - | - | - | RCW-B/N | ○ | ○ | ○ | - | - | ○ | ○ | RCW-B/E | ○ | ○ | ○ | - | - | - | - | RSW-A | - | - | - | - | - | - | - | RSW-B | ○ | - | - | - | - | - | - | HW | - | - | - | - | ○ | - | - | HPW | - | - | - | - | - | - | - | HWH | - | - | - | - | - | - | - | DGCW(A) | - | - | - | - | - | - | - | DGCW(B) | - | - | - | - | - | - | - | DGCW(H) | - | - | - | - | - | - | - | DGLD(A) | - | - | - | - | - | - | - | DGLD(B) | - | - | - | - | - | - | - | DGLD(H) | - | - | - | - | - | - | - | DGFO(A) | - | - | - | - | - | - | - | DGFO(B) | - | - | - | - | - | - | - | DGFO(H) | - | - | - | - | - | - | - | DGDO(A) | - | - | - | - | - | - | - | DGDO(B) | - | - | - | - | - | - | - | DGDO(H) | - | - | - | - | - | - | - | MSC | ○ | - | - | - | - | ○ | - | 消火配管 | ○ | ○ | - | ○ | ○ | - | - | 衛生配管 | - | - | - | - | - | - | - | 23A以下配管 | - | - | - | - | - | - | - | | |
| | R-B2F-14 | R-B2F-1 | R-B2F-4 | R-B2F-2 | R-B2F-3 | R-B2F-5 | R-B2F-6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CRD | - | - | ○ | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| HPFS | - | - | - | - | ○ | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| DGDO(H) | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MSC | ○ | - | - | - | - | ○ | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 衛生配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23A以下配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| - | - | - | - | - | - | CHD | - | - | ○ | - | - | - | ○ | SLC | - | - | - | - | - | - | - | RHR-A | - | - | ○ | - | - | - | - | RHR-B | - | - | ○ | - | - | - | ○ | RHR-C | - | - | ○ | - | - | - | ○ | LPCS | - | - | ○ | - | - | - | - | HPCS | - | - | ○ | - | - | - | - | RC1C | - | - | ○ | - | - | - | - | CUW | ○ | ○ | ○ | - | - | - | - | PPC | - | - | ○ | - | - | - | ○ | RD | - | - | ○ | - | - | - | - | LCW | - | - | ○ | - | - | - | - | HCW | - | - | ○ | - | - | - | - | SD | - | - | - | - | - | - | - | FDW | - | - | - | - | - | - | - | HEWP | ○ | - | - | - | - | - | ○ | HEWC | - | - | ○ | - | - | - | ○ | FW | - | - | - | - | ○ | - | - | PPSW | - | - | ○ | - | - | - | ○ | HNCW | - | - | ○ | ○ | ○ | ○ | ○ | HECW-A | - | - | - | ○ | - | - | - | HECW-B | - | - | - | - | - | - | - | RCW-A/N | - | ○ | ○ | - | ○ | - | ○ | RCW-A/E | - | - | ○ | - | - | - | ○ | RCW-B/N | - | ○ | ○ | - | ○ | - | ○ | RCW-B/E | - | - | - | - | - | - | ○ | RSW-A | - | - | - | - | - | - | - | RSW-B | - | - | - | - | - | - | - | HPCW | - | - | - | - | - | - | ○ | HPSW | - | - | - | - | - | - | - | HWH | - | - | - | - | - | - | ○ | DGCW(A) | - | - | - | - | - | - | - | DGCW(B) | - | - | - | - | - | - | - | DGCW(C) | - | - | - | - | - | - | - | DGLD(A) | - | - | - | - | - | - | - | DGLD(B) | - | - | - | - | - | - | - | DGLD(C) | - | - | - | - | - | - | - | DGFD(A) | - | - | - | - | - | - | - | DGFD(B) | - | - | - | - | - | - | - | DGFD(C) | - | - | - | - | - | - | - | DGDD(A) | - | - | - | - | - | - | - | DGDD(B) | - | - | - | - | - | - | - | DGDD(C) | - | - | - | - | - | - | - | MSC | - | - | - | - | - | - | - | 消火配管 | - | - | - | - | ○ | ○ | ○ | 衛生配管 | - | - | - | - | - | - | - | 25A以下配管 | - | - | - | - | - | - | - | | |
| | R-R2F-6-1 | R-R2F-6-2 | R-R2F-7 | R-R2F-8 | R-R2F-9 | R-R2F-10 | R-R2F-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FDW | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHD | - | - | ○ | - | - | - | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLC | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RHR-A | - | - | ○ | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| RHR-C | - | - | ○ | - | - | - | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LPCS | - | - | ○ | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| RC1C | - | - | ○ | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CUW | ○ | ○ | ○ | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PPC | - | - | ○ | - | - | - | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| HEWC | - | - | ○ | - | - | - | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <p>原子炉建屋(5/17)</p> <table border="1"> <thead> <tr> <th></th> <th>R-BIF-2</th> <th>R-BIF-3</th> <th>R-BIF-3-1</th> <th>R-BIF-3-2</th> <th>R-BIF-3-3</th> <th>R-BIF-4</th> <th>R-BIF-5</th> </tr> </thead> <tbody> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CEB</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SLC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RBB-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RBB-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RBB-C</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LPCS</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPCS</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCIC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CLW</td><td>-</td><td>○</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FTC</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>BD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MBFP</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>MERC</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FTMFW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HSCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HECW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HECW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/N</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/E</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-B/N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>RCW-B/E</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPSW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HWH</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGPO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGPO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGPO(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MSC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>消火配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>衛生配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>25A以下配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> <p>【凡例】○：溢水源有 □：溢水源(想定破損除外) -：溢水源無 ○*：静水頭圧の配管</p> | | R-BIF-2 | R-BIF-3 | R-BIF-3-1 | R-BIF-3-2 | R-BIF-3-3 | R-BIF-4 | R-BIF-5 | FDW | - | - | - | ○ | - | - | - | CEB | - | - | - | - | - | - | - | SLC | - | - | - | - | - | - | - | RBB-A | - | - | - | - | - | - | - | RBB-B | - | - | - | - | - | - | - | RBB-C | - | - | - | - | - | - | - | LPCS | ○ | - | - | - | - | - | - | HPCS | ○ | - | - | - | - | - | - | RCIC | - | - | - | - | - | - | - | CLW | - | ○ | - | ○ | - | - | - | FTC | - | - | - | ○ | - | - | - | BD | - | - | - | - | - | - | - | LCW | - | - | - | - | - | - | - | HCW | - | - | - | - | - | - | - | SD | - | - | - | - | - | - | - | FDW | - | - | - | ○ | - | - | - | MBFP | - | - | - | ○ | - | - | ○ | MERC | - | ○ | - | - | - | - | - | FW | - | - | - | - | - | - | - | FTMFW | - | - | - | - | - | - | - | HSCW | - | - | - | - | - | - | - | HECW-A | - | - | - | - | - | - | - | HECW-B | - | - | - | - | - | - | - | RCW-A/N | ○ | - | - | - | - | - | - | RCW-A/E | - | - | - | - | - | - | - | RCW-B/N | - | - | - | - | - | - | ○ | RCW-B/E | - | ○ | - | - | - | - | - | RSW-A | - | - | - | - | - | - | - | RSW-B | - | - | - | - | - | - | - | HPCW | - | - | - | - | - | - | - | HPSW | - | - | - | - | - | - | - | HWH | - | - | - | - | - | - | - | DGCW(A) | - | - | - | - | - | - | - | DGCW(B) | - | - | - | - | - | - | - | DGCW(D) | - | - | - | - | - | - | - | DGLO(A) | - | - | - | - | - | - | - | DGLO(B) | - | - | - | - | - | - | - | DGLO(D) | - | - | - | - | - | - | - | DGPO(A) | - | - | - | - | - | - | - | DGPO(B) | - | - | - | - | - | - | - | DGPO(D) | - | - | - | - | - | - | - | DGDO(A) | - | - | - | - | - | - | - | DGDO(B) | - | - | - | - | - | - | - | DGDO(D) | - | - | - | - | - | - | - | MSC | - | - | - | - | - | - | - | 消火配管 | - | - | - | - | - | - | - | 衛生配管 | - | - | - | - | - | - | - | 25A以下配管 | - | - | - | - | - | - | - | | |
| | R-BIF-2 | R-BIF-3 | R-BIF-3-1 | R-BIF-3-2 | R-BIF-3-3 | R-BIF-4 | R-BIF-5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FDW | - | - | - | ○ | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEB | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLC | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RBB-A | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RBB-B | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RBB-C | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| MSC | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 消火配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 25A以下配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| - | - | - | - | - | - | CRD | - | - | - | - | - | - | - | SLC | - | - | - | - | - | - | - | RHB-A | - | - | - | - | - | - | - | RHB-B | - | - | - | - | - | - | - | RHB-C | - | - | - | - | - | - | - | LPCC | - | - | - | - | - | - | - | HPCC | - | - | - | - | - | - | - | RCIC | - | - | - | - | - | - | - | CUW | - | - | - | - | - | - | - | FPC | - | - | - | - | - | - | - | RF | - | - | - | - | - | - | - | LCW | - | - | - | - | - | - | - | HCW | - | - | - | - | - | - | - | SD | - | - | - | - | - | - | - | FDW | - | - | - | - | - | - | - | MCWF | - | - | - | - | - | - | - | MWC | - | - | - | - | - | - | - | FR | - | - | - | - | - | - | - | FPM/W | - | - | - | - | - | - | - | MNC/W | - | - | - | - | - | - | - | HCCW-A | - | - | - | - | - | - | - | HCCW-B | - | - | - | - | - | - | - | RCW-A/N | - | - | - | - | - | - | - | RCW-A/E | - | ○ | - | - | - | - | - | RCW-B/N | - | - | - | - | - | ○ | - | RCW-B/E | - | - | - | - | - | - | - | RSP-A | - | - | - | - | - | - | - | RSP-B | - | - | - | - 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| | R-B1F-6 | R-B1F-7 | R-B1F-8 | R-B1F-9 | R-B1F-10 | R-B1F-11 | R-B1F-12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 衛生配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25A以下配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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第9条 溢水による損傷の防止等（別添1 補足説明資料1（女川））

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <p>原子炉建屋(7/17)</p> <table border="1"> <thead> <tr> <th></th> <th>R-B1F-13</th> <th>R-B1F-14</th> <th>R-M1F-1</th> <th>R-M1F-2</th> <th>R-M1F-3</th> <th>R-M1F-4</th> <th>R-1F-1</th> </tr> </thead> <tbody> <tr><td>FDB</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CEB</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SLC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHB-A</td><td>○</td><td>-</td><td>○</td><td>-</td><td>○</td><td>-</td><td>○</td></tr> <tr><td>RHB-B</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHB-C</td><td>-</td><td>○</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>LPSS</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>MPSS</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RC1C</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CEB</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FPC</td><td>○</td><td>-</td><td>○</td><td>-</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>RD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LCE</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HCE</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FDB</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MRFP</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MRBC</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FFMW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HNCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>HLCW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HLCW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/E</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>RCW-B/N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-B/E</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>RSW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HWH</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MSC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>消火配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>衛生配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>25A以下配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> <p>【凡例】○：溢水源有 □：溢水源(想定破損除外) -：溢水源無 ○*：静水頭圧の配管</p> | | R-B1F-13 | R-B1F-14 | R-M1F-1 | R-M1F-2 | R-M1F-3 | R-M1F-4 | R-1F-1 | FDB | - | - | - | - | - | - | - | CEB | - | - | - | - | - | - | - | SLC | - | - | - | - | - | - | - | RHB-A | ○ | - | ○ | - | ○ | - | ○ | RHB-B | - | ○ | - | - | - | - | - | RHB-C | - | ○ | - | - | ○ | - | - | LPSS | - | - | - | ○ | - | ○ | - | MPSS | - | - | - | ○ | - | - | - | RC1C | - | - | - | ○ | - | - | - | CEB | - | - | - | - | - | - | - | FPC | ○ | - | ○ | - | ○ | - | - | RD | - | - | - | - | - | - | - | LCE | - | - | - | - | - | - | - | HCE | - | - | - | - | - | - | - | SD | - | - | - | - | - | - | - | FDB | - | - | - | - | - | - | - | MRFP | - | ○ | - | - | - | - | - | MRBC | - | - | - | ○ | - | - | - | FW | - | - | - | - | - | - | - | FFMW | - | - | - | - | - | - | - | HNCW | - | - | - | - | - | ○ | - | HLCW-A | - | - | - | - | - | - | - | HLCW-B | - | - | - | - | - | - | - | RCW-A/N | - | - | - | - | - | - | - | RCW-A/E | - | - | ○ | - | - | - | ○ | RCW-B/N | - | - | - | - | - | - | - | RCW-B/E | - | - | - | - | ○ | - | - | RSW-A | - | - | - | - | - | - | - | RSW-B | - | - | - | - | - | - | - | HPCW | - | - | - | - | - | - | - | HPCW | - | - | - | - | - | - | - | HWH | - | - | - | - | - | - | - | DGCW(A) | - | - | - | - | - | - | - | DGCW(B) | - | - | - | - | - | - | - | DGCW(D) | - | - | - | - | - | - | - | DGLO(A) | - | - | - | - | - | - | - | DGLO(B) | - | - | - | - | - | - | - | DGLO(D) | - | - | - | - | - | - | - | DGFO(A) | - | - | - | - | - | - | - | DGFO(B) | - | - | - | - | - | - | - | DGFO(D) | - | - | - | - | - | - | - | DGDO(A) | - | - | - | - | - | - | - | DGDO(B) | - | - | - | - | - | - | - | DGDO(D) | - | - | - | - | - | - | - | MSC | - | - | - | - | - | - | - | 消火配管 | - | - | - | - | - | - | - | 衛生配管 | - | - | - | - | - | - | - | 25A以下配管 | - | - | - | - | - | - | - | | |
| | R-B1F-13 | R-B1F-14 | R-M1F-1 | R-M1F-2 | R-M1F-3 | R-M1F-4 | R-1F-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CEB | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| RHB-A | ○ | - | ○ | - | ○ | - | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RHB-B | - | ○ | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RHB-C | - | ○ | - | - | ○ | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| MSC | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 消火配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 25A以下配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <p>原子炉建屋(8/17)</p> <table border="1"> <thead> <tr> <th></th> <th>R-1F-2</th> <th>R-1F-3</th> <th>R-1F-4</th> <th>R-1F-5</th> <th>R-1F-6</th> <th>R-1F-7</th> <th>R-1F-7-1</th> </tr> </thead> <tbody> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CKD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>SLC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-A</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-B</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-C</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LPCS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RPXS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCIC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CUW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FPC</td><td>-</td><td>○</td><td>○</td><td>○</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>BD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MCWP</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MCWC</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>FW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FPMW</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HW</td><td>-</td><td>-</td><td>-</td><td>○</td><td>○</td><td>○</td><td>-</td></tr> <tr><td>HECW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HECW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HECW-N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/E</td><td>-</td><td>○</td><td>○</td><td>○</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>RCW-B/N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-E/E</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>RSW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HCW</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HTSW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HH</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLW(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLW(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLW(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGL0(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGL0(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGL0(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGF0(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○*</td><td>-</td><td>-</td></tr> <tr><td>DGF0(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGF0(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGD0(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>DGD0(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGD0(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MSC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>消火配管</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>衛生配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>25A以下配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> <p>【凡例】○：溢水源有 □：溢水源(想定破損除外) ー：溢水源無 ○*：静水頭圧の配管</p> | | R-1F-2 | R-1F-3 | R-1F-4 | R-1F-5 | R-1F-6 | R-1F-7 | R-1F-7-1 | FDW | - | - | - | - | - | - | - | CKD | - | - | - | - | - | - | ○ | SLC | - | - | - | - | - | - | - | RHR-A | - | - | - | ○ | - | - | - | RHR-B | - | - | - | ○ | - | - | - | RHR-C | - | - | - | ○ | - | - | - | LPCS | - | - | - | - | - | - | - | RPXS | - | - | - | - | - | - | - | RCIC | - | - | - | - | - | - | - | CUW | - | - | - | - | - | - | - | FPC | - | ○ | ○ | ○ | - | ○ | - | BD | - | - | - | - | - | - | - | LCW | - | - | - | - | - | - | - | HCW | - | - | - | - | - | - | - | SD | - | - | - | - | - | - | - | FDW | - | - | - | - | - | - | - | MCWP | - | - | - | ○ | - | - | - | MCWC | - | - | - | ○ | - | ○ | - | FW | - | - | - | - | - | - | - | FPMW | - | - | - | ○ | - | - | - | HW | - | - | - | ○ | ○ | ○ | - | HECW-A | - | - | - | - | - | - | - | HECW-B | - | - | - | - | - | - | - | HECW-N | - | - | - | - | - | - | - | RCW-A/E | - | ○ | ○ | ○ | ○ | - | - | RCW-B/N | - | - | - | - | - | - | - | RCW-E/E | ○ | ○ | ○ | ○ | ○ | - | - | RSW-A | - | - | - | - | - | - | - | RSW-B | - | - | - | - | - | - | - | HCW | - | - | - | ○ | - | - | - | HTSW | - | - | - | - | - | - | - | HH | - | - | - | - | - | - | - | DGLW(A) | - | - | - | - | - | - | - | DGLW(B) | - | - | - | - | - | - | - | DGLW(H) | - | - | - | - | - | - | - | DGL0(A) | - | - | - | - | - | - | - | DGL0(B) | - | - | - | - | - | - | - | DGL0(H) | - | - | - | - | - | - | - | DGF0(A) | - | - | - | - | ○* | - | - | DGF0(H) | - | - | - | - | - | - | - | DGF0(H) | - | - | - | - | - | - | - | DGD0(A) | - | - | - | - | ○ | - | - | DGD0(B) | - | - | - | - | - | - | - | DGD0(H) | - | - | - | - | - | - | - | MSC | - | - | - | - | - | - | - | 消火配管 | - | - | - | ○ | - | - | - | 衛生配管 | - | - | - | - | - | - | - | 25A以下配管 | - | - | - | - | - | - | - | | |
| | R-1F-2 | R-1F-3 | R-1F-4 | R-1F-5 | R-1F-6 | R-1F-7 | R-1F-7-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CKD | - | - | - | - | - | - | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| MSC | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 消火配管 | - | - | - | ○ | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 衛生配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25A以下配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <p>原子炉建屋(9/17)</p> <table border="1"> <thead> <tr> <th></th> <th>R-1F-8</th> <th>R-1F-9</th> <th>R-1F-10</th> <th>R-1F-11</th> <th>R-1F-12</th> <th>R-1F-13</th> <th>R-1F-13-1</th> </tr> </thead> <tbody> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CKD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SLC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-A</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-B</td><td>○</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-C</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LPUS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPUS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCIC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CEW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FPC</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>BD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MCWP</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MCWC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FPMW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HSCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>HSCW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HSCW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>RCW-A/E</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-B/N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-B/E</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPSW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPH</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>DGCW(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>DGCW(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>DGLO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGPO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○*</td><td>-</td></tr> <tr><td>DGPO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGPO(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>○</td></tr> <tr><td>DGDO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MSC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>消火配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>衛生配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>25A以下配管</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> <p>【凡例】○：溢水源有 □：溢水源(想定被排除外) -：溢水源無 ○*：静水頭圧の配管</p> | | R-1F-8 | R-1F-9 | R-1F-10 | R-1F-11 | R-1F-12 | R-1F-13 | R-1F-13-1 | FDW | - | - | - | - | - | - | - | CKD | - | - | - | - | - | - | - | SLC | - | - | - | - | - | - | - | RHR-A | - | ○ | - | - | - | - | - | RHR-B | ○ | - | - | ○ | - | - | - | RHR-C | - | - | - | - | - | - | - | LPUS | - | - | - | - | - | - | - | HPUS | - | - | - | - | - | - | - | RCIC | - | - | - | - | - | - | - | CEW | - | - | - | - | - | - | - | FPC | - | ○ | - | - | - | - | - | BD | - | - | - | - | - | - | - | LCW | - | - | - | - | - | - | - | HCW | - | - | - | - | - | - | - | SD | - | - | - | - | - | - | - | FDW | - | - | - | - | - | - | - | MCWP | - | - | - | - | - | - | - | MCWC | - | - | - | - | - | - | - | FW | - | - | - | - | - | - | - | FPMW | - | - | - | - | - | - | - | HSCW | - | - | - | - | ○ | - | - | HSCW-A | - | - | - | - | - | - | - | HSCW-B | - | - | - | - | - | - | - | RCW-A/N | - | - | - | - | - | ○ | - | RCW-A/E | - | ○ | - | - | - | - | - | RCW-B/N | - | - | - | - | - | - | - | RCW-B/E | - | - | - | ○ | - | - | - | RCW-A | - | - | - | - | - | - | - | RCW-B | - | - | - | - 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| | R-1F-8 | R-1F-9 | R-1F-10 | R-1F-11 | R-1F-12 | R-1F-13 | R-1F-13-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| DGLO(A) | - | - | - | - | - | ○ | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DGLO(B) | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| DGPO(A) | - | - | - | - | - | ○* | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| DGPO(H) | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| DGDO(H) | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MSC | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 消火配管 | - | - | - | - | - | - | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 衛生配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25A以下配管 | - | ○ | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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第9条 溢水による損傷の防止等（別添1 補足説明資料1（女川））

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <p>原子炉建屋(10/17)</p> <table border="1"> <thead> <tr> <th></th> <th>R-1F-14</th> <th>R-1F-15</th> <th>R-1F-15-1</th> <th>R-1F-16</th> <th>R-1F-16-1</th> <th>R-1F-17</th> <th>R-M2F-1</th> </tr> </thead> <tbody> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CRD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SLC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHB-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHB-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHB-C</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LPCS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>BPXS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCIC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CUW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>PPC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HCB</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>MWP</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MWC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FWBW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HCBW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HCBW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>RCW-A/E</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>RCW-B/N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>RCW-B/E</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPCW</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>BPXS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHB</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>DGCV(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCV(B)</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCV(H)</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(B)</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(H)</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGPO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGPO(B)</td><td>-</td><td>-</td><td>-</td><td>○*</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGPO(H)</td><td>○*</td><td>○*</td><td>○*</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(B)</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(H)</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MSC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>消火配管</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>衛生配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>25A以下配管</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> <p>【凡例】○：溢水源有 □：溢水源(想定破損除外) ー：溢水源無 ○*：静水頭圧の配管</p> | | R-1F-14 | R-1F-15 | R-1F-15-1 | R-1F-16 | R-1F-16-1 | R-1F-17 | R-M2F-1 | FDW | - | - | - | - | - | - | - | CRD | - | - | - | - | - | - | - | SLC | - | - | - | - | - | - | - | RHB-A | - | - | - | - | - | - | - | RHB-B | - | - | - | - | - | - | - | RHB-C | - | - | - | - | - | - | - | LPCS | - | - | - | - | - | - | - | BPXS | - | - | - | - | - | - | - | RCIC | - | - | - | - | - | - | - | CUW | - | - | - | - | - | - | - | PPC | - | - | - | - | - | - | - | RD | - | - | - | - | - | - | - | LCW | - | - | - | - | - | - | - | HCB | - | - | - | - | - | - | - | SD | - | - | - | - | - | - | - | FDW | - | - | - | - | - | - | ○ | MWP | - | - | - | - | - | - | - | MWC | - | - | - | - | - | - | - | FW | - | - | - | - | - | - | - | FWBW | - | - | - | - | - | - | - | HW | - | - | - | - | - | - | - | HCBW-A | - | - | - | - | - | - | - | HCBW-B | - | - | - | - | - | - | - | RCW-A/N | - | - | - | - | - | ○ | - | RCW-A/E | - | - | - | - | - | ○ | - | RCW-B/N | - | - | - | - | - | ○ | - | RCW-B/E | - | - | - | ○ | - | - | - | RSW-A | - | - | - | - | - | - | - | RSW-B | - | - | - | - | - | - | - | HPCW | - | ○ | - | - | - | - | - | BPXS | - | - | - | - | - | - | - | RHB | - | - | - | - | - | ○ | - | DGCV(A) | - | - | - | - | - | - | - | DGCV(B) | - | - | - | ○ | - | - | - | DGCV(H) | - | ○ | - | - | - | - | - | DGLO(A) | - | - | - | - | - | - | - | DGLO(B) | - | - | - | ○ | - | - | - | DGLO(H) | - | ○ | - | - | - | - | - | DGPO(A) | - | - | - | - | - | - | - | DGPO(B) | - | - | - | ○* | - | - | - | DGPO(H) | ○* | ○* | ○* | - | - | - | - | DGDO(A) | - | - | - | - | - | - | - | DGDO(B) | - | - | - | ○ | - | - | - | DGDO(H) | ○ | - | - | - | - | - | - | MSC | - | - | - | - | - | - | - | 消火配管 | ○ | - | - | - | - | ○ | - | 衛生配管 | - | - | - | - | - | - | - | 25A以下配管 | - | - | ○ | - | - | - | - | | |
| | R-1F-14 | R-1F-15 | R-1F-15-1 | R-1F-16 | R-1F-16-1 | R-1F-17 | R-M2F-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CRD | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLC | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| RHB-B | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| DGPO(H) | ○* | ○* | ○* | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DGDO(A) | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DGDO(B) | - | - | - | ○ | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DGDO(H) | ○ | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MSC | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 消火配管 | ○ | - | - | - | - | ○ | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 25A以下配管 | - | - | ○ | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <table border="1"> <thead> <tr> <th></th> <th>R-MZF-2</th> <th>R-MZF-3</th> <th>R-MZF-5</th> <th>R-MZF-6</th> <th>R-MZF-7</th> <th>R-MZF-8</th> <th>R-MZF-9</th> </tr> </thead> <tbody> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CEB</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SUC</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-A</td><td>○</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-C</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LPDS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPDS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCIC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CIW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FPC</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>BCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MCWP</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MCWC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FWMSW</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FWCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HECW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HECW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/E</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-B/N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-B/E</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSS-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSS-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HWLW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPSW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HWB</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLW(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLW(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLW(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGL0(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGL0(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGL0(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGPO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○*</td></tr> <tr><td>DGPO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○*</td></tr> <tr><td>DGPO(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>DGDO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>DGDO(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MSC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>消火配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>衛生配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>25A以下配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> </tbody> </table> <p>【凡例】○：溢水源有 □：溢水源(想定破損除外) —：溢水源無 ○*：静水頭圧の配管</p> | | | | | R-MZF-2 | R-MZF-3 | R-MZF-5 | R-MZF-6 | R-MZF-7 | R-MZF-8 | R-MZF-9 | FDW | - | - | - | - | - | - | - | CEB | - | - | - | - | - | - | - | SUC | - | - | ○ | - | - | - | - | RHR-A | ○ | - | - | ○ | - | - | - | RHR-B | - | - | - | - | - | - | - | RHR-C | - | - | - | - | - | - | - | LPDS | - | - | - | - | - | - | - | HPDS | - | - | - | - | - | - | - | RCIC | - | - | - | - | - | - | - | CIW | - | - | - | - | - | - | - | FPC | - | ○ | - | - | - | - | - | RD | - | - | - | - | - | - | - | LCW | - | - | - | - | - | - | - | BCW | - | - | - | - | - | - | - | SD | - | - | - | - | - | - | - | FDW | - | - | - | - | - | - | - | MCWP | - | - | - | - | - | - | - | MCWC | - | - | - | - | - | - | - | FW | - | - | - | - | - | - | - | FWMSW | - | ○ | - | - | - | - | - | FWCW | - | - | - | - | - | - | - | HECW-A | - | - | - | - | - | - | - | HECW-B | - | - | - | - | - | - | - | RCW-A/N | - | - | - | - | - | - | - | RCW-A/E | - | - | - | - | - | - | - | RCW-B/N | - | - | - | - | - | - | - | RCW-B/E | - | ○ | - | - | - | - | - | RSS-A | - | - | - | - | - | - | - | RSS-B | - | - | - | - | - | - | - | HWLW | - | - | - | - | - | - | - | HPSW | - | - | - | - | - | - | - | HWB | - | - | - | - | - | - | - | DGLW(A) | - | - | - | - | - | - | - | DGLW(B) | - | - | - | - | - | - | - | DGLW(H) | - | - | - | - | - | - | - | DGL0(A) | - | - | - | - | - | - | - | DGL0(B) | - | - | - | - | - | - | - | DGL0(H) | - | - | - | - | - | - | - | DGPO(A) | - | - | - | - | - | - | ○* | DGPO(B) | - | - | - | - | - | - | ○* | DGPO(H) | - | - | - | - | - | - | - | DGDO(A) | - | - | - | - | - | - | ○ | DGDO(B) | - | - | - | - | - | - | ○ | DGDO(H) | - | - | - | - | - | - | - | MSC | - | - | - | - | - | - | - | 消火配管 | - | - | - | - | - | - | - | 衛生配管 | - | - | - | - | - | - | - | 25A以下配管 | - | - | - | - | - | ○ | - |
| | R-MZF-2 | R-MZF-3 | R-MZF-5 | R-MZF-6 | R-MZF-7 | R-MZF-8 | R-MZF-9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FDW | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SUC | - | - | ○ | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 消火配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 衛生配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25A以下配管 | - | - | - | - | - | ○ | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

第9条 溢水による損傷の防止等（別添1 補足説明資料1（女川））

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <p>原子炉建屋(12/17)</p> <table border="1"> <thead> <tr> <th></th> <th>R-2F-1-1</th> <th>R-2F-1-2</th> <th>R-2F-1-3</th> <th>R-2F-2</th> <th>R-2F-2-1</th> <th>R-2F-2-2</th> <th>R-2F-2-3</th> </tr> </thead> <tbody> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CRD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SLC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RBR-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RBR-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RBR-C</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LPCS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPCS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCLC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CIW</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FPC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>BCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MCWP</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MCWC</td><td>-</td><td>-</td><td>○</td><td>○</td><td>-</td><td>○</td><td>○</td></tr> <tr><td>FW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FPMPW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HSCW</td><td>□</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HHCW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HHCW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/E</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-B/N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-B/E</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HBB</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MSC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>消火配管</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>衛生配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>25A以下配管</td><td>○</td><td>○</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td></tr> </tbody> </table> <p>【凡例】○：溢水源有 □：溢水源(想定被排除外) -：溢水源無 ○*：静水頭圧の配管</p> | | R-2F-1-1 | R-2F-1-2 | R-2F-1-3 | R-2F-2 | R-2F-2-1 | R-2F-2-2 | R-2F-2-3 | FDW | - | - | - | - | - | - | - | CRD | - | - | - | - | - | - | - | SLC | - | - | - | - | - | - | - | RBR-A | - | - | - | - | - | - | - | RBR-B | - | - | - | - | - | - | - | RBR-C | - | - | - | - | - | - | - | LPCS | - | - | - | - | - | - | - | HPCS | - | - | - | - | - | - | - | RCLC | - | - | - | - | - | - | - | CIW | - | - | - | ○ | - | - | - | FPC | - | - | - | - | - | - | - | RD | - | - | - | - | - | - | - | LCW | - | - | - | - | - | - | - | BCW | - | - | - | - | - | - | - | SD | - | - | - | - | - | - | - | FDW | - | - | - | - | - | - | - | MCWP | - | - | ○ | - | - | - | - | MCWC | - | - | ○ | ○ | - | ○ | ○ | FW | - | - | - | - | - | - | - | FPMPW | - | - | - | - | - | - | - | HSCW | □ | - | - | - | - | - | - | HHCW-A | - | - | - | - | - | - | - | HHCW-B | - | - | - | - | - | - | - | RCW-A/N | - | - | - | - | - | - | - | RCW-A/E | - | - | - | - | - | - | - | RCW-B/N | - | - | - | - | - | - | - | RCW-B/E | - | - | ○ | - | - | - | - | RSW-A | - | - | - | - | - | - | - | RSW-B | - | - | - | - | - | - | - | HPCW | - | - | - | - | - | - | - | HPCW | - | - | - | - | - | - | - | HBB | - | - | - | - | - | - | - | DGCW(A) | - | - | - | - | - | - | - | DGCW(B) | - | - | - | - | - | - | - | DGCW(H) | - | - | - | - | - | - | - | DGLO(A) | - | - | - | - | - | - | - | DGLO(B) | - | - | - | - | - | - | - | DGLO(H) | - | - | - | - | - | - | - | DGFO(A) | - | - | - | - | - | - | - | DGFO(B) | - | - | - | - | - | - | - | DGFO(H) | - | - | - | - | - | - | - | DGDO(A) | - | - | - | - | - | - | - | DGDO(B) | - | - | - | - | - | - | - | DGDO(H) | - | - | - | - | - | - | - | MSC | - | - | - | - | - | - | - | 消火配管 | - | - | ○ | - | - | - | - | 衛生配管 | - | - | - | - | - | - | - | 25A以下配管 | ○ | ○ | - | - | ○ | - | - | | |
| | R-2F-1-1 | R-2F-1-2 | R-2F-1-3 | R-2F-2 | R-2F-2-1 | R-2F-2-2 | R-2F-2-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 消火配管 | - | - | ○ | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 衛生配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25A以下配管 | ○ | ○ | - | - | ○ | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

第9条 溢水による損傷の防止等（別添1 補足説明資料1（女川））

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <p>原子炉建屋(13/17)</p> <table border="1"> <thead> <tr> <th></th> <th>R-2F-2-4</th> <th>R-2F-2-5</th> <th>R-2F-2-6</th> <th>R-2F-3</th> <th>R-2F-3-1</th> <th>R-2F-4</th> <th>R-2F-5</th> </tr> </thead> <tbody> <tr><td>FIB</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CEB</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SLC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>RHB-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHB-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHB-C</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LPFS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPFS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCIC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FWC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LCC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FDH</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MEWP</td><td>-</td><td>-</td><td>-</td><td>○</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>MIBC</td><td>○</td><td>-</td><td>-</td><td>○</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>FW</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FTMW</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HWCW</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HFCW-A</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>HFCW-B</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>RCW-A/W</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/E</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>RCW-B/W</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-B/E</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>RSW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPCW</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPSW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HFB</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(O)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(O)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(O)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(O)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MSC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>消火配管</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>○</td><td>○</td></tr> <tr><td>衛生配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>25A以下配管</td><td>-</td><td>○</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> <p>【凡例】○：溢水源有 □：溢水源(想定破損除外) -：溢水源無 ○*：静水頭圧の配管</p> | | R-2F-2-4 | R-2F-2-5 | R-2F-2-6 | R-2F-3 | R-2F-3-1 | R-2F-4 | R-2F-5 | FIB | - | - | - | - | - | - | - | CEB | - | - | - | - | - | - | - | SLC | - | - | - | - | ○ | - | - | RHB-A | - | - | - | - | - | - | - | RHB-B | - | - | - | - | - | - | - | RHB-C | - | - | - | - | - | - | - | LPFS | - | - | - | - | - | - | - | HPFS | - | - | - | - | - | - | - | RCIC | - | - | - | - | - | - | - | LCW | - | - | - | - | - | - | - | FWC | - | - | - | - | - | - | - | RD | - | - | - | - | - | - | - | LCC | - | - | - | - | - | - | - | HCW | - | - | - | - | - | - | - | SD | - | - | - | - | - | - | - | FDH | - | - | - | - | - | - | - | MEWP | - | - | - | ○ | ○ | - | - | MIBC | ○ | - | - | ○ | ○ | - | - | FW | - | - | - | ○ | - | - | - | FTMW | - | - | - | ○ | - | - | - | HWCW | - | - | - | ○ | - | - | - | HFCW-A | - | - | - | ○ | - | - | ○ | HFCW-B | - | - | - | ○ | - | ○ | - | RCW-A/W | - | - | - | ○ | - | - | - | RCW-A/E | - | - | - | ○ | - | - | ○ | RCW-B/W | - | - | - | - | - | - | - | RCW-B/E | - | - | - | ○ | - | ○ | - | RSW-A | - | - | - | - | - | - | - | RSW-B | - | - | - | - | - | - | - | HPCW | - | - | - | ○ | - | - | - | HPSW | - | - | - | - | - | - | - | HFB | - | - | - | ○ | - | - | - | DGCW(A) | - | - | - | - | - | - | - | DGCW(B) | - | - | - | - | - | - | - | DGCW(O) | - | - | - | - | - | - | - | DGLO(A) | - | - | - | - | - | - | - | DGLO(B) | - | - | - | - | - | - | - | DGLO(O) | - | - | - | - | - | - | - | DGFO(A) | - | - | - | - | - | - | - | DGFO(B) | - | - | - | - | - | - | - | DGFO(O) | - | - | - | - | - | - | - | DGDO(A) | - | - | - | - | - | - | - | DGDO(B) | - | - | - | - | - | - | - | DGDO(O) | - | - | - | - | - | - | - | MSC | - | - | - | - | - | - | - | 消火配管 | - | - | - | ○ | - | ○ | ○ | 衛生配管 | - | - | - | - | - | - | - | 25A以下配管 | - | ○ | ○ | - | - | - | - | | |
| | R-2F-2-4 | R-2F-2-5 | R-2F-2-6 | R-2F-3 | R-2F-3-1 | R-2F-4 | R-2F-5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CEB | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLC | - | - | - | - | ○ | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| RHB-B | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| DGDO(A) | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DGDO(B) | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| MSC | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 消火配管 | - | - | - | ○ | - | ○ | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 25A以下配管 | - | ○ | ○ | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

第9条 溢水による損傷の防止等（別添1 補足説明資料1（女川））

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 原子炉建屋(14/17) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th></th> <th>R-2F-6</th> <th>R-2F-6-1</th> <th>R-2F-6-2</th> <th>R-2F-7</th> <th>R-2F-7-1</th> <th>R-2F-8</th> <th>R-2F-8-1</th> </tr> </thead> <tbody> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CRD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SLC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-C</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LPCS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPCS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>BC1C</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CUW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>EPIC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>BD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MRFP</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MRIC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FPMHW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RWCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>RHCW-A</td><td>○</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHCW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>○</td></tr> <tr><td>RCS-A/N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCS-A/E</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCS-B/N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCS-B/E</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPSW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHH</td><td>○</td><td>○</td><td>-</td><td>○</td><td>○</td><td>○</td><td>○</td></tr> <tr><td>DGCW(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(E)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(E)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(E)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(H)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(A)</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(E)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>DGDO(H)</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MSC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>消火配管</td><td>○</td><td>-</td><td>-</td><td>○</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>衛生配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>25A以下配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> <p>【凡例】○：溢水源有 □：溢水源(想定破損除外) -：溢水源無 ○*：静水頭圧の配管</p> | | | | | R-2F-6 | R-2F-6-1 | R-2F-6-2 | R-2F-7 | R-2F-7-1 | R-2F-8 | R-2F-8-1 | FDW | - | - | - | - | - | - | - | CRD | - | - | - | - | - | - | - | SLC | - | - | - | - | - | - | - | RHR-A | - | - | - | - | - | - | - | RHR-B | - | - | - | - | - | - | - | RHR-C | - | - | - | - | - | - | - | LPCS | - | - | - | - | - | - | - | HPCS | - | - | - | - | - | - | - | BC1C | - | - | - | - | - | - | - | CUW | - | - | - | - | - | - | - | EPIC | - | - | - | - | - | - | - | BD | - | - | - | - | - | - | - | LCW | - | - | - | - | - | - | - | HCW | - | - | - | - | - | - | - | SD | - | - | - | - | - | - | - | FDW | - | - | - | - | - | - | - | MRFP | - | - | - | - | - | - | - | MRIC | - | - | - | - | - | - | - | FW | - | - | - | - | - | - | - | FPMHW | - | - | - | - | - | - | - | RWCW | - | - | - | - | - | ○ | - | RHCW-A | ○ | ○ | - | - | - | - | - | RHCW-B | - | - | - | - | - | ○ | ○ | RCS-A/N | - | - | - | - | - | - | - | RCS-A/E | - | - | - | - | - | - | - | RCS-B/N | - | - | - | - | - | - | - | RCS-B/E | - | - | - | - | - | - | - | RSW-A | - | - | - | - | - | - | - | RSW-B | - | - | - | - | - | - | - | HPCW | - | - | - | - | - | - | - | HPSW | - | - | - | - | - | - | - | RHH | ○ | ○ | - | ○ | ○ | ○ | ○ | DGCW(A) | - | - | - | - | - | - | - | DGCW(E) | - | - | - | - | - | - | - | DGCW(H) | - | - | - | - | - | - | - | DGLO(A) | - | - | - | - | - | - | - | DGLO(E) | - | - | - | - | - | - | - | DGLO(H) | - | - | - | - | - | - | - | DGFO(A) | - | - | - | - | - | - | - | DGFO(E) | - | - | - | - | - | - | - | DGFO(H) | - | - | - | - | - | - | - | DGDO(A) | ○ | - | - | - | - | - | - | DGDO(E) | - | - | - | - | - | ○ | - | DGDO(H) | - | - | - | ○ | - | - | - | MSC | - | - | - | - | - | - | - | 消火配管 | ○ | - | - | ○ | - | ○ | - | 衛生配管 | - | - | - | - | - | - | - | 25A以下配管 | - | - | - | - | - | - | - |
| | R-2F-6 | R-2F-6-1 | R-2F-6-2 | R-2F-7 | R-2F-7-1 | R-2F-8 | R-2F-8-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FDW | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CRD | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLC | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| LPCS | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| DGDO(A) | ○ | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DGDO(E) | - | - | - | - | - | ○ | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DGDO(H) | - | - | - | ○ | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MSC | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 消火配管 | ○ | - | - | ○ | - | ○ | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 衛生配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25A以下配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

第9条 溢水による損傷の防止等（別添1 補足説明資料1（女川））

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <p>原子炉建屋(15/17)</p> <table border="1"> <thead> <tr> <th></th> <th>R-2F-8-2</th> <th>R-2F-9</th> <th>R-2F-11</th> <th>R-2F-12-1</th> <th>R-2F-13-1</th> <th>R-2F-14-1</th> <th>R-2F-15-1</th> </tr> </thead> <tbody> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CRD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SLC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-C</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LPCS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPCS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCIC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CEW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FPC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RO</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MCWP</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MEWC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FBMW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HDCW</td><td>-</td><td>○</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HECW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HECW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/N</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/E</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-B/N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-B/E</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RPCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RPCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HHH</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MSC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>消火配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>衛生配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>25A 以下配管</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> <p>【凡例】○：溢水源有 □：溢水源(想定破損除外) -：溢水源無 ○*：静水頭圧の配管</p> | | R-2F-8-2 | R-2F-9 | R-2F-11 | R-2F-12-1 | R-2F-13-1 | R-2F-14-1 | R-2F-15-1 | FDW | - | - | - | - | - | - | - | CRD | - | - | - | - | - | - | - | SLC | - | - | - | - | - | - | - | RHR-A | - | - | - | - | - | - | - | RHR-B | - | - | - | - | - | - | - | RHR-C | - | - | - | - | - | - | - | LPCS | - | - | - | - | - | - | - | HPCS | - | - | - | - | - | - | - | RCIC | - | - | - | - | - | - | - | CEW | - | - | - | - | - | - | - | FPC | - | - | - | - | - | - | - | RO | - | - | - | - | - | - | - | LCW | - | - | - | - | - | - | - | HCW | - | - | - | - | - | - | - | SD | - | - | - | - | - | - | - | FDW | - | - | - | - | - | - | - | MCWP | - | - | - | - | - | - | - | MEWC | - | - | - | - | - | - | - | FW | - | - | - | - | - | - | - | FBMW | - | - | - | - | - | - | - | HDCW | - | ○ | ○ | - | - | - | - | HECW-A | - | - | - | - | - | - | - | HECW-B | - | - | - | - | - | - | - | RCW-A/N | - | - | - | ○ | - | - | - | RCW-A/E | - | - | - | - | - | - | - | RCW-B/N | - | - | - | - | - | - | - | RCW-B/E | - | - | - | - | - | - | - | RSW-A | - | - | - | - | - | - | - | RSW-B | - | - | - | - | - | - | - | RPCW | - | - | - | - | - | - | - | RPCW | - | - | - | - | - | - | - | HHH | - | ○ | - | - | - | - | - | DGCW(A) | - | - | - | - | - | - | - | DGCW(D) | - | - | - | - | - | - | - | DGLO(A) | - | - | - | - | - | - | - | DGLO(B) | - | - | - | - | - | - | - | DGLO(D) | - | - | - | - | - | - | - | DGFO(A) | - | - | - | - | - | - | - | DGFO(D) | - | - | - | - | - | - | - | DGFO(D) | - | - | - | - | - | - | - | DGDO(A) | - | - | - | - | - | - | - | DGDO(D) | - | - | - | - | - | - | - | DGDO(D) | - | - | - | - | - | - | - | MSC | - | - | - | - | - | - | - | 消火配管 | - | - | - | - | - | - | - | 衛生配管 | - | - | - | - | - | - | - | 25A 以下配管 | - | - | - | ○ | - | - | - | | |
| | R-2F-8-2 | R-2F-9 | R-2F-11 | R-2F-12-1 | R-2F-13-1 | R-2F-14-1 | R-2F-15-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 消火配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 衛生配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25A 以下配管 | - | - | - | ○ | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 緑字：記載表現、設備名称の相違（実質的な相違なし）

第9条 溢水による損傷の防止等（別添1 補足説明資料1（女川））

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <p>原子炉建屋(16/17)</p> <table border="1"> <thead> <tr> <th></th> <th>R-2F-16-1</th> <th>R-2F-17</th> <th>R-2F-18</th> <th>R-2F-19</th> <th>R-MGF-3-1</th> <th>R-2F-1</th> <th>R-3F-3-1</th> </tr> </thead> <tbody> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CRD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SLC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR-C</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LPCS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RPCCS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCIC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CEW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>EPC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>ED</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LCE</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HEW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>MWFP</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>MWCC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>FTW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>RNLT</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>○</td><td>-</td></tr> <tr><td>RNLT-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>RNLT-B</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>RCW-A/N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/E</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>RCW-B/N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-B/E</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>RSA-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSA-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RPVW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RPVW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RHR</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>○</td><td>-</td></tr> <tr><td>DGCW(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(D)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(A)</td><td>-</td><td>○*</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(B)</td><td>-</td><td>-</td><td>○*</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGFO(D)</td><td>-</td><td>-</td><td>-</td><td>○*</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(A)</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(B)</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(D)</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MSC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>消火配管</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td></tr> <tr><td>衛生配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>25A以下配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> <p>【凡例】○：溢水源有 □：溢水源(想定破損除外) -：溢水源無 ○*：静水頭圧の配管</p> | | R-2F-16-1 | R-2F-17 | R-2F-18 | R-2F-19 | R-MGF-3-1 | R-2F-1 | R-3F-3-1 | FDW | - | - | - | - | - | - | - | CRD | - | - | - | - | - | - | - | SLC | - | - | - | - | - | - | - | RHR-A | - | - | - | - | - | - | - | RHR-B | - | - | - | - | - | - | - | RHR-C | - | - | - | - | - | - | - | LPCS | - | - | - | - | - | - | - | RPCCS | - | - | - | - | - | - | - | RCIC | - | - | - | - | - | - | - | CEW | - | - | - | - | - | ○ | - | EPC | - | - | - | - | - | - | - | ED | - | - | - | - | - | - | - | LCE | - | - | - | - | - | - | - | HEW | - | - | - | - | - | - | - | SD | - | - | - | - | - | - | - | FDW | - | - | - | - | - | ○ | - | MWFP | - | - | - | - | - | ○ | - | MWCC | - | - | - | - | - | - | - | FW | - | - | - | - | - | ○ | - | FTW | - | - | - | - | - | ○ | - | RNLT | - | - | - | - | ○ | ○ | - | RNLT-A | - | - | - | - | - | ○ | - | RNLT-B | ○ | - | - | - | - | ○ | - | RCW-A/N | - | - | - | - | - | - | - | RCW-A/E | - | - | - | - | - | ○ | - | RCW-B/N | - | - | - | - | - | - | - | RCW-B/E | - | - | - | - | - | ○ | - | RSA-A | - | - | - | - | - | - | - | RSA-B | - | - | - | - | - | - | - | RPVW | - | - | - | - | - | - | - | RPVW | - | - | - | - | - | - | - | RHR | - | - | - | - | ○ | ○ | - | DGCW(A) | - | - | - | - | - | - | - | DGCW(B) | - | - | - | - | - | - | - | DGCW(D) | - | - | - | - | - | - | - | DGLO(A) | - | - | - | - | - | - | - | DGLO(B) | - | - | - | - | - | - | - | DGLO(D) | - | - | - | - | - | - | - | DGFO(A) | - | ○* | - | - | - | - | - | DGFO(B) | - | - | ○* | - | - | - | - | DGFO(D) | - | - | - | ○* | - | - | - | DGDO(A) | - | ○ | - | - | - | - | - | DGDO(B) | - | - | ○ | - | - | - | - | DGDO(D) | - | - | - | ○ | - | - | - | MSC | - | - | - | - | - | - | - | 消火配管 | ○ | - | - | - | - | ○ | - | 衛生配管 | - | - | - | - | - | - | - | 25A以下配管 | - | - | - | - | - | - | - | | |
| | R-2F-16-1 | R-2F-17 | R-2F-18 | R-2F-19 | R-MGF-3-1 | R-2F-1 | R-3F-3-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CRD | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLC | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| RHR-B | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| DGFO(B) | - | - | ○* | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DGFO(D) | - | - | - | ○* | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DGDO(A) | - | ○ | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DGDO(B) | - | - | ○ | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DGDO(D) | - | - | - | ○ | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MSC | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 消火配管 | ○ | - | - | - | - | ○ | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 衛生配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25A以下配管 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <p>原子炉建屋(17/17)</p> <table border="1"> <thead> <tr> <th></th> <th>R-3F-3-2</th> <th>R-3F-2</th> <th>R-3F-4</th> <th>R-3F-5</th> <th>R-3F-7</th> </tr> </thead> <tbody> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CRD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SLC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RBB-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RBB-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RBB-C</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LPCS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPCS</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCIC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>CUW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FPC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>LCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>SD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FDW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MEWP</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MEWC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>FPMSW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HSCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>HECW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HECW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-A/E</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-B/N</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RCW-B/E</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>RSW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HPSW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HWH</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGCW(C)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGLO(C)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGPO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGPO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGPO(C)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(A)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(B)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>DGDO(C)</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MSC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>消火配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>衛生配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>25A以下配管</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> <p>【凡例】○：溢水源有 □：溢水源(想定破損除外) -：溢水源無 ○*：静水頭圧の配管</p> | | R-3F-3-2 | R-3F-2 | R-3F-4 | R-3F-5 | R-3F-7 | FDW | - | - | - | - | - | CRD | - | - | - | - | - | SLC | - | - | - | - | - | RBB-A | - | - | - | - | - | RBB-B | - | - | - | - | - | RBB-C | - | - | - | - | - | LPCS | - | - | - | - | - | HPCS | - | - | - | - | - | RCIC | - | - | - | - | - | CUW | - | - | - | - | - | FPC | - | - | - | - | - | RD | - | - | - | - | - | LCW | - | - | - | - | - | HCW | - | - | - | - | - | SD | - | - | - | - | - | FDW | - | - | - | - | - | MEWP | - | - | - | - | - | MEWC | - | - | - | - | - | FW | - | - | - | - | - | FPMSW | - | - | - | - | - | HSCW | - | - | - | - | ○ | HECW-A | - | - | - | - | - | HECW-B | - | - | - | - | - | RCW-A/N | - | - | - | - | - | RCW-A/E | - | - | - | - | - | RCW-B/N | - | - | - | - | - | RCW-B/E | - | - | - | - | - | RSW-A | - | - | - | - | - | RSW-B | - | - | - | - | - | HPCW | - | - | - | - | - | HPSW | - | - | - | - | - | HWH | - | - | - | - | - | DGCW(A) | - | - | - | - | - | DGCW(B) | - | - | - | - | - | DGCW(C) | - | - | - | - | - | DGLO(A) | - | - | - | - | - | DGLO(B) | - | - | - | - | - | DGLO(C) | - | - | - | - | - | DGPO(A) | - | - | - | - | - | DGPO(B) | - | - | - | - | - | DGPO(C) | - | - | - | - | - | DGDO(A) | - | - | - | - | - | DGDO(B) | - | - | - | - | - | DGDO(C) | - | - | - | - | - | MSC | - | - | - | - | - | 消火配管 | - | - | - | - | - | 衛生配管 | - | - | - | - | - | 25A以下配管 | - | - | - | - | - | | |
| | R-3F-3-2 | R-3F-2 | R-3F-4 | R-3F-5 | R-3F-7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FDW | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 緑字：記載表現、設備名称の相違（実質的な相違なし）

第9条 溢水による損傷の防止等（別添1 補足説明資料1（女川））

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <p>副御建屋(1/5)</p> <table border="1"> <thead> <tr> <th></th> <th>C-B2F-1</th> <th>C-B2F-2</th> <th>C-B2F-3</th> <th>C-B2F-4</th> <th>C-B2F-5</th> <th>C-B2F-6</th> <th>C-MB2F-1</th> </tr> </thead> <tbody> <tr><td>MWP</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HSCW</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HECW-A</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>HECW-B</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HWH</td><td>○</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>MSC</td><td>-</td><td>○</td><td>-</td><td>○</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>消火配管</td><td>○</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>○</td></tr> <tr><td>衛生配管</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>25A以下配管</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td></tr> </tbody> </table> <p>副御建屋(2/5)</p> <table border="1"> <thead> <tr> <th></th> <th>C-B1F-1</th> <th>C-B1F-2</th> <th>C-B1F-3</th> <th>C-B1F-4</th> <th>C-B1F-5</th> <th>C-B1F-6-1</th> <th>C-B1F-7</th> </tr> </thead> <tbody> <tr><td>MWP</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HSCW</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HECW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HECW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HWH</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MSC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>消火配管</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>衛生配管</td><td>○*</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>25A以下配管</td><td>-</td><td>○</td><td>○</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> <p>副御建屋(3/5)</p> <table border="1"> <thead> <tr> <th></th> <th>C-B1F-8</th> <th>C-B1F-9</th> <th>C-MB1F-1</th> <th>C-1F-1</th> <th>C-1F-2</th> <th>C-1F-3</th> <th>C-1F-4</th> </tr> </thead> <tbody> <tr><td>MWP</td><td>-</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HSCW</td><td>○</td><td>-</td><td>-</td><td>○</td><td>○</td><td>○</td><td>-</td></tr> <tr><td>HECW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HECW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HWH</td><td>○</td><td>-</td><td>-</td><td>○</td><td>○</td><td>○</td><td>-</td></tr> <tr><td>MSC</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>消火配管</td><td>○</td><td>-</td><td>-</td><td>○</td><td>○</td><td>○</td><td>-</td></tr> <tr><td>衛生配管</td><td>-</td><td>○</td><td>-</td><td>○</td><td>○</td><td>○</td><td>○</td></tr> <tr><td>25A以下配管</td><td>-</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td></tr> </tbody> </table> <p>【凡例】 ○：溢水源有 □：溢水源(想定破損除外) ー：溢水源無 ○*：静水頭圧の配管</p> <p>副御建屋(4/5)</p> <table border="1"> <thead> <tr> <th></th> <th>C-2F-1</th> <th>C-2F-2</th> <th>C-2F-3</th> <th>C-2F-4</th> <th>C-2F-5</th> <th>C-2F-1</th> <th>C-2F-2</th> </tr> </thead> <tbody> <tr><td>MWP</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HSCW</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HECW-A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HECW-B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>HWH</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>MSC</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>消火配管</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>衛生配管</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>25A以下配管</td><td>-</td><td>-</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> <p>副御建屋(5/5)</p> <table border="1"> <thead> <tr> <th></th> <th>C-2F-3</th> <th>C-2F-4</th> </tr> </thead> <tbody> <tr><td>MWP</td><td>-</td><td>-</td></tr> <tr><td>HSCW</td><td>-</td><td>-</td></tr> <tr><td>HECW-A</td><td>-</td><td>-</td></tr> <tr><td>HECW-B</td><td>-</td><td>-</td></tr> <tr><td>HWH</td><td>-</td><td>-</td></tr> <tr><td>MSC</td><td>-</td><td>-</td></tr> <tr><td>消火配管</td><td>○</td><td>-</td></tr> <tr><td>衛生配管</td><td>-</td><td>○</td></tr> <tr><td>25A以下配管</td><td>○</td><td>○</td></tr> </tbody> </table> <p>【凡例】 ○：溢水源有 □：溢水源(想定破損除外) ー：溢水源無 ○*：静水頭圧の配管</p> | | C-B2F-1 | C-B2F-2 | C-B2F-3 | C-B2F-4 | C-B2F-5 | C-B2F-6 | C-MB2F-1 | MWP | - | - | - | - | - | - | - | HSCW | - | ○ | - | - | - | - | - | HECW-A | ○ | - | - | - | - | - | ○ | HECW-B | - | ○ | - | - | - | - | - | HWH | ○ | ○ | - | - | - | - | ○ | MSC | - | ○ | - | ○ | - | - | ○ | 消火配管 | ○ | ○ | - | - | - | - | ○ | 衛生配管 | ○ | - | - | - | - | - | - | 25A以下配管 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | C-B1F-1 | C-B1F-2 | C-B1F-3 | C-B1F-4 | C-B1F-5 | C-B1F-6-1 | C-B1F-7 | MWP | - | - | - | - | - | - | - | HSCW | - | - | - | - | - | - | - | HECW-A | - | - | - | - | - | - | - | HECW-B | - | - | - | - | - | - | - | HWH | - | - | - | - | - | - | - | MSC | - | - | - | - | - | - | - | 消火配管 | - | - | ○ | - | - | - | - | 衛生配管 | ○* | - | ○ | - | - | - | - | 25A以下配管 | - | ○ | ○ | ○ | - | - | - | | C-B1F-8 | C-B1F-9 | C-MB1F-1 | C-1F-1 | C-1F-2 | C-1F-3 | C-1F-4 | MWP | - | - | - | ○ | - | - | - | HSCW | ○ | - | - | ○ | ○ | ○ | - | HECW-A | - | - | - | - | - | - | - | HECW-B | - | - | - | - | - | - | - | HWH | ○ | - | - | ○ | ○ | ○ | - | MSC | ○ | - | - | - | - | - | - | 消火配管 | ○ | - | - | ○ | ○ | ○ | - | 衛生配管 | - | ○ | - | ○ | ○ | ○ | ○ | 25A以下配管 | - | ○ | ○ | ○ | ○ | ○ | ○ | | C-2F-1 | C-2F-2 | C-2F-3 | C-2F-4 | C-2F-5 | C-2F-1 | C-2F-2 | MWP | - | - | - | - | - | - | - | HSCW | - | - | ○ | - | - | - | - | HECW-A | - | - | - | - | - | - | - | HECW-B | - | - | - | - | - | - | - | HWH | - | - | ○ | - | - | - | - | MSC | - | - | - | - | - | - | - | 消火配管 | - | - | ○ | - | - | - | - | 衛生配管 | - | - | ○ | - | - | - | - | 25A以下配管 | - | - | ○ | - | - | - | - | | C-2F-3 | C-2F-4 | MWP | - | - | HSCW | - | - | HECW-A | - | - | HECW-B | - | - | HWH | - | - | MSC | - | - | 消火配管 | ○ | - | 衛生配管 | - | ○ | 25A以下配管 | ○ | ○ | | |
| | C-B2F-1 | C-B2F-2 | C-B2F-3 | C-B2F-4 | C-B2F-5 | C-B2F-6 | C-MB2F-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MWP | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| HECW-A | ○ | - | - | - | - | - | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HECW-B | - | ○ | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HWH | ○ | ○ | - | - | - | - | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MSC | - | ○ | - | ○ | - | - | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 消火配管 | ○ | ○ | - | - | - | - | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 25A以下配管 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 衛生配管 | ○* | - | ○ | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25A以下配管 | - | ○ | ○ | ○ | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C-B1F-8 | C-B1F-9 | C-MB1F-1 | C-1F-1 | C-1F-2 | C-1F-3 | C-1F-4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MWP | - | - | - | ○ | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | C-2F-3 | C-2F-4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 消火配管 | ○ | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 衛生配管 | - | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25A以下配管 | ○ | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

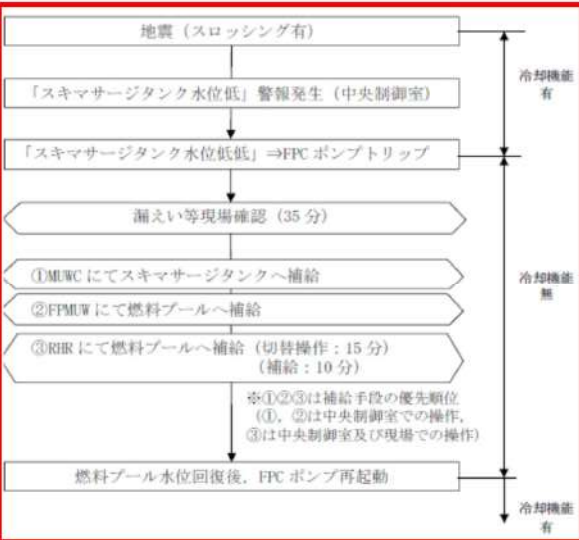
第9条 溢水による損傷の防止等（別添1 補足説明資料1（女川））

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <p>屋外（海水ポンプ室）</p> <table border="1"> <thead> <tr> <th></th> <th>SW-1F-1</th> <th>SW-1F-2</th> <th>SW-1F-3</th> <th>SW-1F-4</th> <th>SW-1F-5</th> </tr> </thead> <tbody> <tr> <td>CF</td> <td>○</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>FW</td> <td>○</td> <td>○</td> <td>○</td> <td>○</td> <td>○</td> </tr> <tr> <td>TCW</td> <td>○</td> <td>-</td> <td>○</td> <td>-</td> <td>-</td> </tr> <tr> <td>RSW-A</td> <td>-</td> <td>○</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>RSW-B</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>○</td> </tr> <tr> <td>TSW</td> <td>-</td> <td>-</td> <td>○</td> <td>-</td> <td>-</td> </tr> <tr> <td>HPSW</td> <td>-</td> <td>-</td> <td>-</td> <td>○</td> <td>-</td> </tr> <tr> <td>25A以下配管</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>【凡例】○：溢水源有 □：溢水源（想定破損除外） -：溢水源無</p> <p>屋外（復水貯蔵タンク周り）</p> <table border="1"> <thead> <tr> <th></th> <th>CST エリア</th> </tr> </thead> <tbody> <tr> <td>CRD</td> <td>○※1</td> </tr> <tr> <td>HPCS</td> <td>○※1</td> </tr> <tr> <td>FPC</td> <td>○※1</td> </tr> <tr> <td>LCW</td> <td>○※1</td> </tr> <tr> <td>MUWC</td> <td>○</td> </tr> <tr> <td>25A以下配管</td> <td></td> </tr> </tbody> </table> <p>【凡例】○：溢水源有 □：溢水源（想定破損除外） -：溢水源無 ※1 溢水量はMUWC系に含めて算出</p> <p>屋外（軽油タンクエリア）</p> <table border="1"> <thead> <tr> <th></th> <th>LOT-1</th> <th>LOT-2</th> <th>LOT-3</th> </tr> </thead> <tbody> <tr> <td>DGDO(A)</td> <td>○</td> <td>-</td> <td>-</td> </tr> <tr> <td>DGDO(B)</td> <td>-</td> <td>○</td> <td>-</td> </tr> <tr> <td>DGDO(H)</td> <td>-</td> <td>-</td> <td>○</td> </tr> <tr> <td>25A以下配管</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>【凡例】○：溢水源有 □：溢水源（想定破損除外） -：溢水源無</p> <p>原子炉建屋付属棟（廃棄物処理エリア（非管理区域））</p> <table border="1"> <thead> <tr> <th></th> <th>Rw-1F-2-1</th> <th>Rw-1F-2-2</th> <th>Rw-1F-2-3</th> <th>Rw-1F-2-4</th> </tr> </thead> <tbody> <tr> <td>HNCW</td> <td>-</td> <td>-</td> <td>-</td> <td>○</td> </tr> <tr> <td>HRH</td> <td>-</td> <td>-</td> <td>-</td> <td>○</td> </tr> <tr> <td>25A以下配管</td> <td>-</td> <td>-</td> <td>-</td> <td></td> </tr> </tbody> </table> <p>【凡例】○：溢水源有 □：溢水源（想定破損除外） -：溢水源無</p> | | SW-1F-1 | SW-1F-2 | SW-1F-3 | SW-1F-4 | SW-1F-5 | CF | ○ | - | - | - | - | FW | ○ | ○ | ○ | ○ | ○ | TCW | ○ | - | ○ | - | - | RSW-A | - | ○ | - | - | - | RSW-B | - | - | - | - | ○ | TSW | - | - | ○ | - | - | HPSW | - | - | - | ○ | - | 25A以下配管 | | | | | | | CST エリア | CRD | ○※1 | HPCS | ○※1 | FPC | ○※1 | LCW | ○※1 | MUWC | ○ | 25A以下配管 | | | LOT-1 | LOT-2 | LOT-3 | DGDO(A) | ○ | - | - | DGDO(B) | - | ○ | - | DGDO(H) | - | - | ○ | 25A以下配管 | | | | | Rw-1F-2-1 | Rw-1F-2-2 | Rw-1F-2-3 | Rw-1F-2-4 | HNCW | - | - | - | ○ | HRH | - | - | - | ○ | 25A以下配管 | - | - | - | | | |
| | SW-1F-1 | SW-1F-2 | SW-1F-3 | SW-1F-4 | SW-1F-5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| FW | ○ | ○ | ○ | ○ | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TCW | ○ | - | ○ | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RSW-A | - | ○ | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RSW-B | - | - | - | - | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TSW | - | - | ○ | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HPSW | - | - | - | ○ | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25A以下配管 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CST エリア | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CRD | ○※1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HPCS | ○※1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FPC | ○※1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LCW | ○※1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MUWC | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25A以下配管 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LOT-1 | LOT-2 | LOT-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DGDO(A) | ○ | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| DGDO(H) | - | - | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25A以下配管 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Rw-1F-2-1 | Rw-1F-2-2 | Rw-1F-2-3 | Rw-1F-2-4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HNCW | - | - | - | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HRH | - | - | - | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25A以下配管 | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

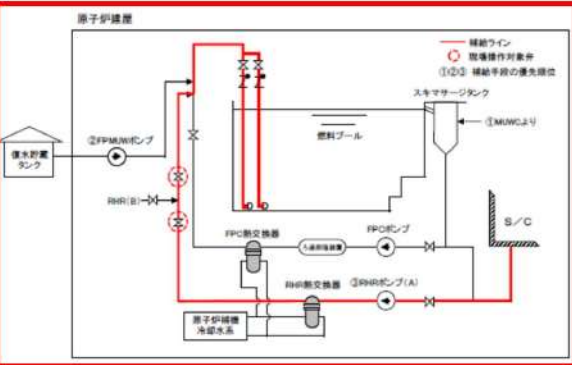
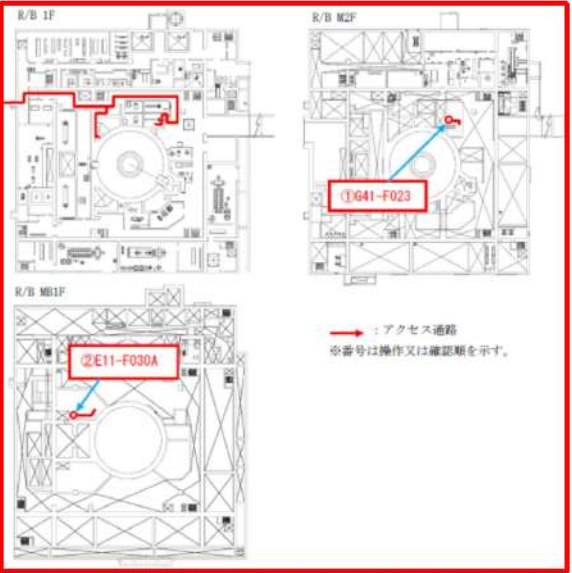
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| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|------------|---|---------|---|
| | <p style="text-align: center;">補足説明資料10</p> <p>スロッシング後の使用済燃料プール冷却機能維持のための現場操作</p> <p>地震起因による溢水影響評価において、残留熱除去系による使用済燃料プールへの冷却機能・給水機能が維持されていることを確認しているが、別添1-8のスロッシング後の機能維持評価の補足として使用済燃料プール冷却機能・給水機能維持の系統切替時に必要となる現場操作の操作性について示す。</p> <p>1. 残留熱除去系による使用済燃料プールの給水・冷却のための現場操作</p> <p>地震起因のスロッシング影響により燃料プール冷却浄化系が一時的に機能喪失した場合、残留熱除去系に系統切替し、使用済燃料プールの給水・冷却機能を維持する必要がある。その際に現場での手動弁の操作が必要となる。スロッシングによる燃料プールの水位低下時の対応フローについて図1、残留熱除去系による使用済燃料プール給水・冷却の概要を図2、現場操作対象弁を表2及び表3に示す。</p> <p>(1) スロッシング後の系統切替時のアクセス通路における溢水影響</p> <p>原子炉建屋3階燃料取替床で発生した使用済燃料プールのスロッシングによる溢水水位は、カーブ高さを越えないことから、他区画に溢水伝播しない。系統切替時のアクセス通路については、図3、4に示すとおりであり、原子炉建屋3階燃料取替床での操作がないことから、系統切替時の現場へのアクセス性に影響はない。</p> <p>(2) 使用済燃料プールの温度上昇に対する時間余裕について</p> <p>地震に伴うスロッシングによる溢水量(41m³)を、使用済燃料プールの初期保有水量から差し引いた状態で、使用済燃料プールの冷却機能が喪失した場合、使用済燃料プールの水温が保安規定で定める水温(65℃)まで上昇する時間は、約5時間である。使用済燃料プール及びスキマサージタンクへ給水できる系統としては、復水補給水系(MUWC)及び燃料プール補給水系(FPMUW)もあるがここでは、残留熱除去系(RHR)への系統切替について記載する。</p> <p>系統切替により冷却機能を復旧させるまでの時間は、中央制御室において燃料プール冷却浄化系(FPC)ポンプトリップを確認</p> | | <p>【女川】</p> <p><u>設計方針の相違</u></p> <ul style="list-style-type: none"> ・女川は使用済燃料プールのスロッシング後、燃料プールの水位が一時的にオーバーフロー水位を下回るため、燃料プール冷却ポンプが停止し、使用済燃料プール冷却機能が喪失する。そのため、系統切替操作によるプールへの給水が必要であることから、スロッシング後の使用済燃料プール冷却・給水に係る手順を定めている。 ・泊と大阪では、使用済燃料ピットのスロッシング後においても、燃料ピットの水位がピット冷却に必要な水位を下回らないことから、使用済燃料ピットの冷却機能が喪失することはないため、女川のようなピットの冷却・給水機能を維持するための運用手順は不要である。 |

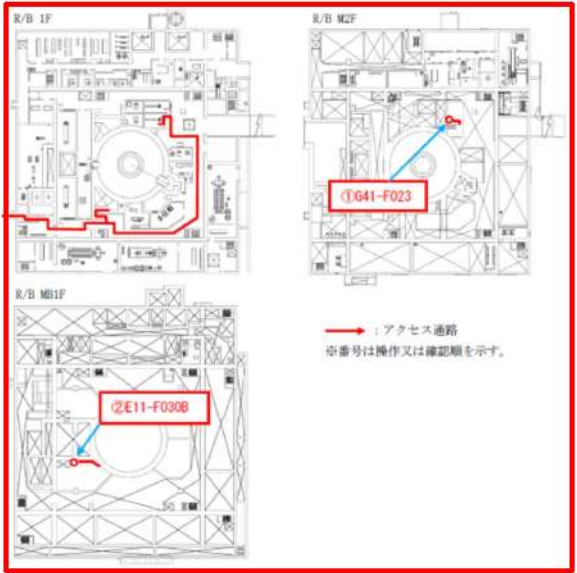
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|--------------------------------|--|--------------------------------|------|--|--------------------------------|-----|--|----|----------|----|----------|----|--------|----|--|--|--------|--|--|
| | <p>した後、約1時間（現場確認：35分、切替操作：15分、補給時間：10分）で対応可能である。使用済燃料プール冷却機能復旧時間について表1に示す。</p> <p style="text-align: center;">表1 系統切替による冷却機能復旧時間について</p> <table border="1" data-bbox="696 341 1272 475"> <tr> <td>スロッシングによる溢水量 (m³)</td> <td colspan="2">41</td> </tr> <tr> <td>RIRによる補給流量 (m³/h)</td> <td colspan="2">300</td> </tr> <tr> <td rowspan="3">時間</td> <td>現場確認 (分)</td> <td>35</td> </tr> <tr> <td>切替操作 (分)</td> <td>15</td> </tr> <tr> <td>補給 (分)</td> <td>10</td> </tr> <tr> <td colspan="2"></td> <td>合計 60分</td> </tr> </table>  <p style="text-align: center;">図1 燃料プール水位低下時の対応フロー</p> | スロッシングによる溢水量 (m ³) | 41 | | RIRによる補給流量 (m ³ /h) | 300 | | 時間 | 現場確認 (分) | 35 | 切替操作 (分) | 15 | 補給 (分) | 10 | | | 合計 60分 | | |
| スロッシングによる溢水量 (m ³) | 41 | | | | | | | | | | | | | | | | | | |
| RIRによる補給流量 (m ³ /h) | 300 | | | | | | | | | | | | | | | | | | |
| 時間 | 現場確認 (分) | 35 | | | | | | | | | | | | | | | | | |
| | 切替操作 (分) | 15 | | | | | | | | | | | | | | | | | |
| | 補給 (分) | 10 | | | | | | | | | | | | | | | | | |
| | | 合計 60分 | | | | | | | | | | | | | | | | | |

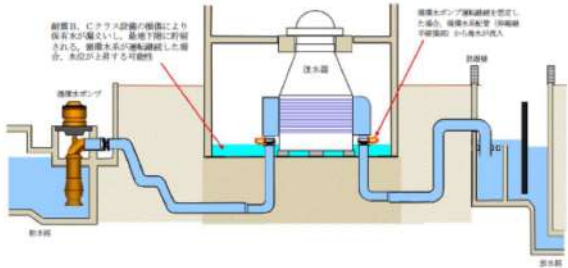
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|------------|--|---------------------|----------|--|--|-----|----|------|------|-----------|------------------|---------------------|----------|----------|---------------|-------------------|---------|--|--|
| |  <p data-bbox="703 555 1272 577">図2 残留熱除去系による使用済燃料プール給水・冷却 概要図</p> <p data-bbox="792 624 1182 646">表2 現場操作対象弁（残留熱除去系A系）</p> <table border="1" data-bbox="703 657 1272 775"> <thead> <tr> <th colspan="4">操作対象弁</th> </tr> <tr> <th>弁番号</th> <th>弁名</th> <th>設置場所</th> <th>防護区画</th> </tr> </thead> <tbody> <tr> <td>E11-F030A</td> <td>R/R A系 FPC 供給連絡弁</td> <td>R/A MB1F R/R(A)バルブ室</td> <td>R-MB1F-1</td> </tr> <tr> <td>G41-F023</td> <td>FPC R/R 戻り連絡弁</td> <td>R/A 1F FPC 熱交換器上室</td> <td>R-M2F-3</td> </tr> </tbody> </table>  <p data-bbox="703 1409 1272 1465">図3 残留熱除去系A系による燃料プール給水の現場操作アクセス通路</p> | 操作対象弁 | | | | 弁番号 | 弁名 | 設置場所 | 防護区画 | E11-F030A | R/R A系 FPC 供給連絡弁 | R/A MB1F R/R(A)バルブ室 | R-MB1F-1 | G41-F023 | FPC R/R 戻り連絡弁 | R/A 1F FPC 熱交換器上室 | R-M2F-3 | | |
| 操作対象弁 | | | | | | | | | | | | | | | | | | | |
| 弁番号 | 弁名 | 設置場所 | 防護区画 | | | | | | | | | | | | | | | | |
| E11-F030A | R/R A系 FPC 供給連絡弁 | R/A MB1F R/R(A)バルブ室 | R-MB1F-1 | | | | | | | | | | | | | | | | |
| G41-F023 | FPC R/R 戻り連絡弁 | R/A 1F FPC 熱交換器上室 | R-M2F-3 | | | | | | | | | | | | | | | | |

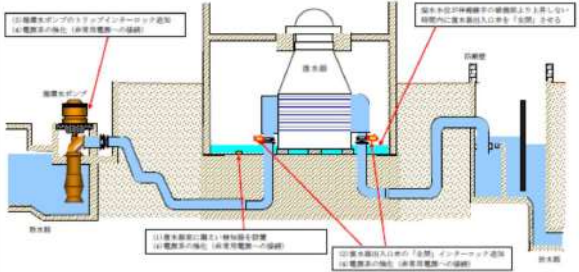
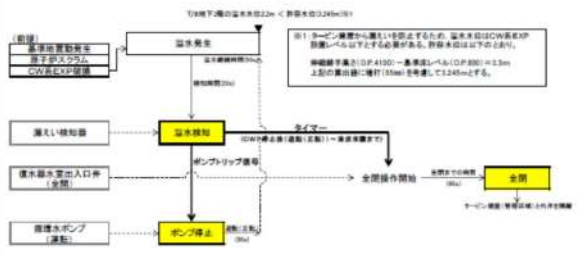
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| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | |
|------------|---|---------------------|----------|--|--|-----|----|------|------|-----------|----------------|---------------------|----------|----------|---------------|-------------------|---------|--|--|
| | <p style="text-align: center;">表3 現場操作対象弁（残留熱除去系B系）</p> <table border="1" data-bbox="698 210 1272 331"> <thead> <tr> <th colspan="4" style="text-align: center;">操作対象弁</th> </tr> <tr> <th>弁番号</th> <th>弁名</th> <th>設置場所</th> <th>防護区画</th> </tr> </thead> <tbody> <tr> <td>E11-F030B</td> <td>RHR B系FPC供給連絡弁</td> <td>R/A MB1F RHR(B)バルブ室</td> <td>R-MB1F-3</td> </tr> <tr> <td>G41-F023</td> <td>FPC RHR 戻り連絡弁</td> <td>R/A 1F FPC 熱交換器上室</td> <td>R-M2F-3</td> </tr> </tbody> </table>  <p style="text-align: center;">図4 残留熱除去系B系による燃料プール給水の現場操作アクセス通路</p> | 操作対象弁 | | | | 弁番号 | 弁名 | 設置場所 | 防護区画 | E11-F030B | RHR B系FPC供給連絡弁 | R/A MB1F RHR(B)バルブ室 | R-MB1F-3 | G41-F023 | FPC RHR 戻り連絡弁 | R/A 1F FPC 熱交換器上室 | R-M2F-3 | | |
| 操作対象弁 | | | | | | | | | | | | | | | | | | | |
| 弁番号 | 弁名 | 設置場所 | 防護区画 | | | | | | | | | | | | | | | | |
| E11-F030B | RHR B系FPC供給連絡弁 | R/A MB1F RHR(B)バルブ室 | R-MB1F-3 | | | | | | | | | | | | | | | | |
| G41-F023 | FPC RHR 戻り連絡弁 | R/A 1F FPC 熱交換器上室 | R-M2F-3 | | | | | | | | | | | | | | | | |

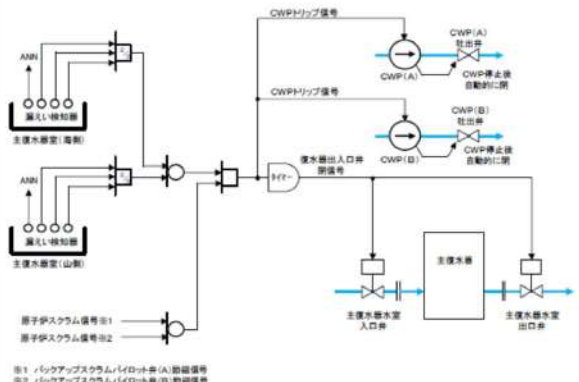
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|------------|---|---------|--|
| | <p style="text-align: center;">補足説明資料12</p> <p>循環水系及びタービン補機冷却海水系におけるインターロックの追加について</p> <p>1. タービン建屋（管理区域）における地震時溢水評価について</p> <p>女川2号炉の管理区域内において、海水系配管が敷設されている建屋として該当するものは、タービン建屋のみであり、対象となる系統は循環水系の一系統である。循環水系配管がタービン建屋（管理区域）で破断した場合は、溢水量が増大する可能性があることから、対応が必要となる。（図1参照）</p> <p>（1）基準地震動が発生し、耐震B、Cクラス設備が機能喪失（耐震B、Cクラス設備が損傷し、保有水全量が瞬時に漏えい）</p> <p>（2）漏えいした流体（微量な放射性物質を含む）は、最地下階に貯留</p> <p>（3）循環水ポンプについては、耐震Cクラスであり、機能喪失するものと考えられるが、保守的に通常運転状態が継続されるものとして評価</p> <p>（4）循環水ポンプの運転継続を仮定した場合、最地下階で溢水水位が上昇</p>  <p>図1 タービン建屋（管理区域）における地震時溢水（イメージ）</p> <p>2. タービン建屋（管理区域）からの溢水防止対策の検討</p> <p>（1）運転員の手動操作による対応</p> <p>運転員の手動操作による対応が可能であるが、基準地震動発生直後の状況下（スクラム対応中の状況）において、確実に運転操作（弁の閉止操作が必要であり、CSを全閉保持（1分程度）する必要がある等）を実施することは困難と考えられることから、自動化（インターロック）による対応が必要と判断した。</p> | | <p>【女川】</p> <p><u>設計方針の相違</u></p> <p>泊と大阪では、地震発生時に期待して循環水ポンプの自動停止に期待せず、手動隔離によって循環水ポンプを停止するまでの時間をを用いて溢水量を算出し、溢水影響評価を実施している。</p> |

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|------------|--|---------|------|
| | <p>(2) 自動化（インターロック追加）による対応 循環水系に以下の対策を実施する。(図2参照)</p> <p>a. 復水器室に漏えい検知器を設置 b. 復水器出入口弁の「全閉」インターロック追加 c. 循環水ポンプのトリップインターロック追加 d. 上記に関する電源系の強化（非常用電源への接続）</p>  <p>図2 循環水系における対策内容</p> <p>3. 循環水系に追加するインターロックについて 追加するインターロックは以下のとおり設定する。(図3、4参照)</p> <p>(1) 基準地震動 S s 発生により、循環水配管（伸縮継手部）が破断し、溢水開始 (2) 溢水開始 20 秒後に復水器室で漏えいを検知し、循環水ポンプトリップ (3) 循環水ポンプトリップは、誤動作を防止する観点から、「原子炉スクラム信号」との and 条件を設定 (4) 循環水ポンプの遊転が停止した以降に全閉するように、漏えい検知の 120 秒後から、復水器出入口弁（全 8 弁）が開動作開始</p>  <p>図3 インターロックの概要</p> | | |

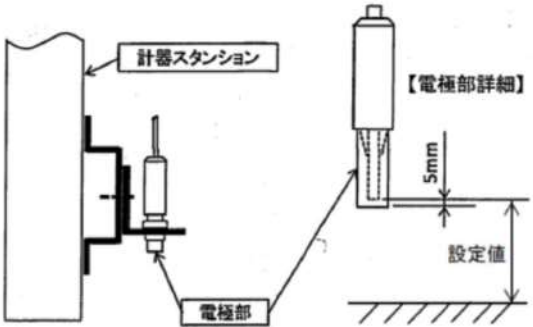
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|---------------|--|-----------------|------------------------------|-------------------------|--------------------------|----|--------|------|---|------|-------------------------|---------------|------|-----------------|------|-----------------------|----|-----------------------|--------|--------|----------|--------|-----------|-------------------|--|--|
| |  <p>図4 循環水配管溢水対策インターロックロジック概要</p> <p>4. 漏えい検知までの時間設定（20秒）について 循環水系からの漏えい発生20秒後におけるタービン建屋（管理区域）最地下階の浸水深から、漏えい検出器の設置高さを設定する。</p> <p>（1）評価に必要となる前提条件の整理 表1及び表2に漏えい検知までの時間算出に必要となる諸条件を示す。</p> <p>表1 諸条件（ポンプ吐出流量）</p> <table border="1" data-bbox="696 997 1272 1129"> <thead> <tr> <th>項目</th> <th>吐出流量 (m³/min/台)</th> <th>設置台数</th> <th>流量 (m³/min)</th> <th>備考</th> </tr> </thead> <tbody> <tr> <td>循環水ポンプ</td> <td>1662</td> <td>2</td> <td>3324</td> <td>循環水系配管（伸縮継手破損部）からの漏えい流量</td> </tr> <tr> <td>T/B床ドレンサンパポンプ</td> <td>0.17</td> <td>4^{※1}</td> <td>0.68</td> <td>床ドレンポンプが運転することを保守的に仮定</td> </tr> </tbody> </table> <p>※1 タービン建屋高電導度ドレンサンパポンプ（2台）を含む</p> <p>表2 タービン建屋（管理区域）最地下階の床面積</p> <table border="1" data-bbox="696 1273 1272 1396"> <thead> <tr> <th>区画</th> <th>床面積 (m²)</th> </tr> </thead> <tbody> <tr> <td>復水器エリア</td> <td>1621.5</td> </tr> <tr> <td>復水器エリア以外</td> <td>1140.4</td> </tr> <tr> <td>復水器廻りの掘込部</td> <td>840^{※1}</td> </tr> </tbody> </table> <p>※1 復水器廻りの掘込部における貯留容量 (m³)</p> | 項目 | 吐出流量 (m ³ /min/台) | 設置台数 | 流量 (m ³ /min) | 備考 | 循環水ポンプ | 1662 | 2 | 3324 | 循環水系配管（伸縮継手破損部）からの漏えい流量 | T/B床ドレンサンパポンプ | 0.17 | 4 ^{※1} | 0.68 | 床ドレンポンプが運転することを保守的に仮定 | 区画 | 床面積 (m ²) | 復水器エリア | 1621.5 | 復水器エリア以外 | 1140.4 | 復水器廻りの掘込部 | 840 ^{※1} | | |
| 項目 | 吐出流量 (m ³ /min/台) | 設置台数 | 流量 (m ³ /min) | 備考 | | | | | | | | | | | | | | | | | | | | | | |
| 循環水ポンプ | 1662 | 2 | 3324 | 循環水系配管（伸縮継手破損部）からの漏えい流量 | | | | | | | | | | | | | | | | | | | | | | |
| T/B床ドレンサンパポンプ | 0.17 | 4 ^{※1} | 0.68 | 床ドレンポンプが運転することを保守的に仮定 | | | | | | | | | | | | | | | | | | | | | | |
| 区画 | 床面積 (m ²) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 復水器エリア | 1621.5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 復水器エリア以外 | 1140.4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 復水器廻りの掘込部 | 840 ^{※1} | | | | | | | | | | | | | | | | | | | | | | | | | |

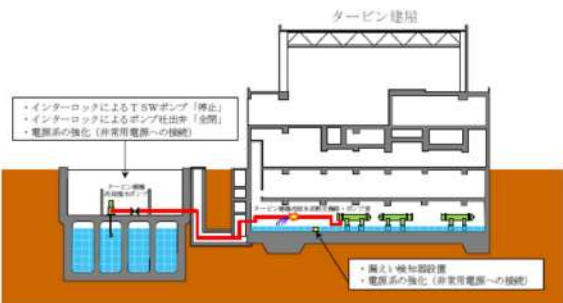
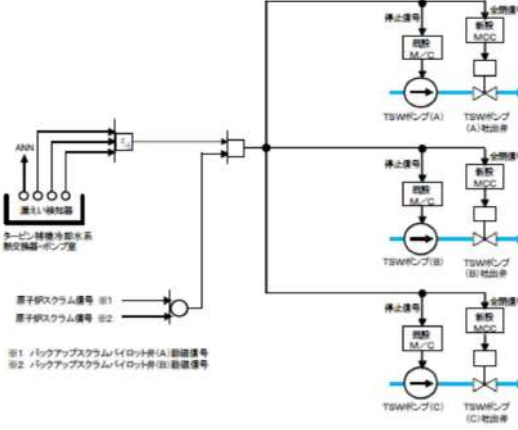
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|------------|---|---------|------|
| | <p>(2) 溢水発生 20 秒後の浸水深</p> <p>a. 復水器エリアに貯留を仮定した場合</p> <p>復水器エリアは床上 130mm のカーブにより囲われており、循環水系配管（伸縮継手破損部）からの漏えい流量は、建屋内配水系の排水容量（ここでは保守的に建屋内排水系による排水を考慮する）より大きいため、復水器エリアにて床上 130mm まで貯留された後、最地下階全体へ浸水していくものと考えられる。</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>20秒後の浸水高さ(m)</p> $= \left[\left(\text{漏えい流量}(\text{m}^3/\text{min}) - \text{排水流量}(\text{m}^3/\text{min}) \right) \times \frac{20(\text{s})}{60(\text{s})} - \text{復水器廻りの掘込部貯留容量}(\text{m}^3) \right] + \text{復水器エリアの滞留面積}(\text{m}^2)$ $= \left[(3324 - 0.68) \times \frac{1}{3} - 840 \right] + 1621.5$ <p>= 0.16(m) (小数第3位切り捨て)</p> </div> <p>b. 最地下階（全域）に貯留されることを仮定した場合</p> <p>復水器エリアのカーブを考慮せず、循環水系配管（伸縮継手破損部）からの漏えい水が最地下階全域に浸水すると仮定した場合でも、96mm の浸水深となる。</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>20秒後の浸水高さ(m)</p> $= \left[\left(\text{漏えい流量}(\text{m}^3/\text{min}) - \text{排水流量}(\text{m}^3/\text{min}) \right) \times \frac{20(\text{s})}{60(\text{s})} - \text{復水器廻りの掘込部貯留容量}(\text{m}^3) \right] + \text{タービン建屋（管理区域）最地下階の滞留面積}(\text{m}^2)$ $= \left[(3324 - 0.68) \times \frac{1}{3} - 840 \right] + (1621.5 + 1140.4)$ <p>= 0.096(m) (小数第4位切り捨て)</p> </div> <p>(3) 漏えい検知器の設定高さについて</p> <p>溢水発生 20 秒後の浸水深から、漏えい検知器は、タービン建屋（管理区域）最地下階の基準床面（O.P. +800）から 90mm 以下の高さで漏えい検知が可能のように設置する。</p> <p>具体的には、漏えい検知器の精度（今回設置する電極式レベルスイッチでは、±10mm）を考慮し、タービン建屋（管理区域）最地下階の基準床面（O.P. +800）から 80mm 以下の高さに設置する。図5に漏えい検知器概略図を示す。</p> | | |

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|------------|--|---------|------|
| |  <p data-bbox="871 552 1099 576">図5 漏えい検知器概略図</p> <p data-bbox="696 620 1279 675">5. タービン建屋（非管理区域）における地震時溢水評価について</p> <p data-bbox="696 687 1279 948">女川2号炉のタービン補機冷却海水系は低耐震クラスであり、タービン建屋（非管理区域）の最地下階（タービン補機冷却海水系熱交換器・ポンプ室）に敷設されている。基準地震動S_sによりタービン補機冷却海水系熱交換器・ポンプ室のタービン補機冷却海水系配管破断後、タービン補機冷却海水ポンプが運転状態を維持した場合、溢水量が増大し、タービン補機冷却海水系熱交換器・ポンプ室で溢水水位が上昇する可能性があることから、対応が必要となる。</p> <p data-bbox="696 960 1279 984">6. タービン建屋（非管理区域）からの溢水防止対策の検討</p> <p data-bbox="696 997 1279 1021">(1) 運転員の手動操作による対応</p> <p data-bbox="696 1034 1279 1189">運転員の手動操作によるポンプ停止（吐出弁は連動して「閉」動作）対応が可能であるが、基準地震動S_s発生直後の状況下（スクラム対応中の状況）において、確実に運転操作を実施することは困難と考えられることから、自動化（インターロック）による対応が必要と判断した。</p> <p data-bbox="696 1235 1279 1259">(2) 自動化（インターロック追加）による対応</p> <p data-bbox="696 1272 1279 1295">タービン補機冷却海水系に以下の対策を実施する。（図6参照）</p> <ul style="list-style-type: none"> <li data-bbox="696 1308 1279 1362">a. タービン補機冷却海水系熱交換器・ポンプ室に漏えい検知器を設置 <li data-bbox="696 1375 1279 1399">b. タービン補機冷却海水ポンプのトリップインターロック追加 <li data-bbox="696 1412 1279 1466">c. タービン補機冷却海水ポンプ吐出弁の「全閉」インターロック追加 <li data-bbox="696 1479 1279 1503">d. 上記に関する電源系の強化（非常用電源への接続） | | |

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|------------|--|---------|------|
| |  <p data-bbox="772 518 1198 542">図6 タービン補機冷却海水系における対策内容</p> <p data-bbox="705 582 1265 646">7. タービン補機冷却海水系に追加するインターロックについて追加するインターロックは以下のとおり設定する。(図7参照)</p> <p data-bbox="705 654 1265 710">(1) 基準地震動Ss発生により、タービン補機冷却海水系配管が破断し、溢水開始</p> <p data-bbox="705 718 1265 813">(2) タービン補機冷却水系熱交換器・ポンプ室で漏えいを検知し、タービン補機冷却海水ポンプトリップ及びタービン補機冷却海水ポンプ吐出弁の自動「全閉」</p> <p data-bbox="705 821 1265 885">(3) タービン補機冷却海水ポンプトリップは、誤動作を防止する観点から、「原子炉スクラム信号」とのand条件を設定</p>  <p data-bbox="705 1372 1265 1428">図7 タービン補機冷却海水系配管溢水対策インターロックロジック概要</p> | | |

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|---|---|----------|---------------------------------|--|-----------------------------|----|-------------------|------|---|----|--|---|------|---|------|---------------------------|----|----------------------|-------------------------|-------|--|--|
| | <p>8. 溢水発生からタービン補機冷却海水ポンプの隔離までの時間について</p> <p>基準地震動Ssにより、タービン補機冷却水系熱交換器・ポンプ室のタービン補機冷却海水系配管が破断し、漏えい検出器で溢水を検知後、タービン補機冷却海水ポンプ停止と吐出弁全閉による隔離が完了するまでの時間を確認した。</p> <p>(1) 漏えい検知器の設定値について</p> <p>漏えい検知器は、循環水系と同様に、タービン補機冷却水系熱交換器・ポンプ室の基準床面（O.P.-200）から90mm以下の高さで漏えい検知が可能のように設置する。</p> <p>具体的には、漏えい検知器の精度（今回設置する電極式レベルスイッチでは、±10mm）を考慮し、タービン補機冷却水系熱交換器・ポンプ室の基準床面から80mm以下の高さに設置する。</p> <p>(2) 評価に必要となる前提条件の整理</p> <p>表3及び表4に漏えい検知までの時間算出に必要なとなる諸条件を示す。</p> <p style="text-align: center;">表3 諸条件（ポンプ吐出流量）</p> <table border="1" data-bbox="698 871 1267 1072"> <thead> <tr> <th>項目</th> <th>吐出流量 (m³/min/台)</th> <th>設置 台数</th> <th>流量 (m³/min)</th> <th>備考</th> </tr> </thead> <tbody> <tr> <td>タービン補機冷却 海水ポンプ</td> <td>37.5</td> <td>2</td> <td>75</td> <td>設置台数はタービン補機 冷却海水ポンプ運転台数 (プラント運転状態)</td> </tr> <tr> <td>タービン補機冷却 水系熱交換器室海 水ストームドレン サンポンプ</td> <td>0.17</td> <td>1</td> <td>0.17</td> <td>床ドレンポンプが運転す ることを保守的に仮定</td> </tr> </tbody> </table> <p style="text-align: center;">表4 床面積</p> <table border="1" data-bbox="725 1165 1240 1257"> <thead> <tr> <th>区画</th> <th>床面積(m²)</th> </tr> </thead> <tbody> <tr> <td>タービン補機冷却水系熱交換 器・ポンプ室</td> <td>410.9</td> </tr> </tbody> </table> <p>(3) 漏えい検知までの時間</p> <p>タービン補機冷却海水配管からの漏えい水により、漏えい検知器の設定高さ（床上+90mm）で検知するまでに必要な時間は次のとおり。</p> <p>a. 漏えい検知に必要な溢水量</p> <p style="text-align: center;">床面積×漏えい検知器の設定高さ=410.9×90÷1000</p> | 項目 | 吐出流量 (m ³ /min/台) | 設置 台数 | 流量 (m ³ /min) | 備考 | タービン補機冷却 海水ポンプ | 37.5 | 2 | 75 | 設置台数はタービン補機 冷却海水ポンプ運転台数 (プラント運転状態) | タービン補機冷却 水系熱交換器室海 水ストームドレン サンポンプ | 0.17 | 1 | 0.17 | 床ドレンポンプが運転す ることを保守的に仮定 | 区画 | 床面積(m ²) | タービン補機冷却水系熱交換 器・ポンプ室 | 410.9 | | |
| 項目 | 吐出流量 (m ³ /min/台) | 設置 台数 | 流量 (m ³ /min) | 備考 | | | | | | | | | | | | | | | | | | |
| タービン補機冷却 海水ポンプ | 37.5 | 2 | 75 | 設置台数はタービン補機 冷却海水ポンプ運転台数 (プラント運転状態) | | | | | | | | | | | | | | | | | | |
| タービン補機冷却 水系熱交換器室海 水ストームドレン サンポンプ | 0.17 | 1 | 0.17 | 床ドレンポンプが運転す ることを保守的に仮定 | | | | | | | | | | | | | | | | | | |
| 区画 | 床面積(m ²) | | | | | | | | | | | | | | | | | | | | | |
| タービン補機冷却水系熱交換 器・ポンプ室 | 410.9 | | | | | | | | | | | | | | | | | | | | | |

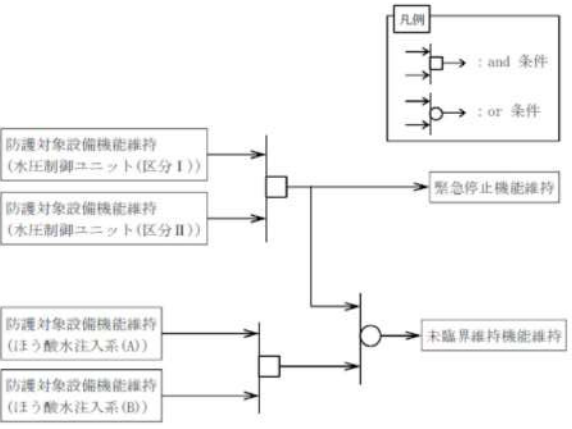
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| | <p>= 37.0 (m³)</p> <p>b. 漏えい検知までの時間</p> <p>漏えい検知に必要な溢水量 ÷ (漏えい流量 (m³/min) - 排水流量 (m³/min))</p> <p>= 37.0 ÷ (75-0.17) = 0.495 (min) = 29.7 (秒)</p> <p>= 30 (秒) (小数第一位切り上げ)</p> <p>c. 溢水発生からタービン補機冷却海水ポンプ隔離（ポンプ停止、吐出弁全閉）までの時間</p> <p>タービン補機冷却海水ポンプ及び吐出弁は、漏えい検知後にタービン補機冷却海水ポンプ隔離動作（ポンプ停止、吐出弁閉）を開始する。ポンプは30秒後に停止、吐出弁もほぼ同時に30秒後に全閉となる。</p> <p>漏えい検知までの時間 + ポンプ停止及び吐出弁「全閉」時間</p> <p>= 30+30</p> <p>= 60 (秒)</p> <p>よって、タービン補機冷却水系熱交換器・ポンプ室内においてタービン補機冷却海水系配管破断により溢水を検知した場合、溢水発生から60秒でタービン補機冷却海水ポンプの隔離が完了する。</p> | | |

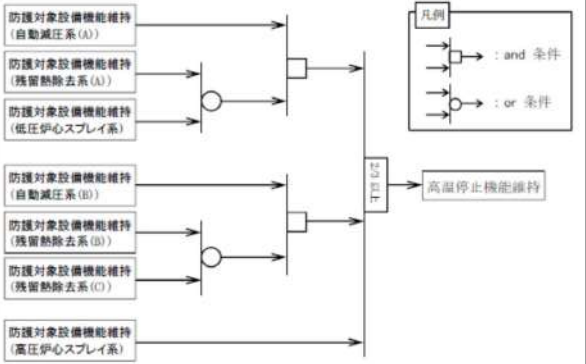
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| | <p style="text-align: right;">補足説明資料14</p> <p>内部溢水影響評価における判定表</p> <p>1. はじめに 本資料は、内部溢水影響評価における防護対象設備がその安全機能を喪失しないことを確認するために用いた判定表についてまとめたものである。</p> <p>2. 安全機能整理表 別添1-3「防護対象設備の設定」に基づき、内部溢水影響評価における要求事項を表1の安全機能整理表に整理した。 内部溢水影響評価の判定としては、3項から13項の判定基準により、防護対象設備の機能が維持されていることを確認した。</p> <p style="text-align: center;">表1 安全機能整理表(1/5)</p> <table border="1" data-bbox="698 692 1270 874"> <thead> <tr> <th colspan="4" style="text-align: center;">原子炉施設</th> </tr> <tr> <th colspan="2" style="text-align: center;">緊急停止機能</th> <th colspan="2" style="text-align: center;">未臨界維持機能 (IKU又はSLC)</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;">○</td> <td colspan="2" style="text-align: center;">○</td> </tr> <tr> <th colspan="2" style="text-align: center;">水圧制御ユニット</th> <th colspan="2" style="text-align: center;">ほう酸水注入系</th> </tr> <tr> <td colspan="2" style="text-align: center;">○</td> <td colspan="2" style="text-align: center;">○</td> </tr> <tr> <th style="text-align: center;">A系(I系)</th> <th style="text-align: center;">B系(II系)</th> <th style="text-align: center;">A系</th> <th style="text-align: center;">B系</th> </tr> <tr> <td style="text-align: center;">○</td> <td style="text-align: center;">○</td> <td style="text-align: center;">○</td> <td style="text-align: center;">○</td> </tr> </tbody> </table> <p>3. 緊急停止機能 【判定基準】 水圧制御ユニットの機能が維持されていること。</p> <p>4. 未臨界維持機能 【判定基準】 水圧制御ユニットの機能又はほう酸水注入系の機能が維持されていること。</p> | 原子炉施設 | | | | 緊急停止機能 | | 未臨界維持機能 (IKU又はSLC) | | ○ | | ○ | | 水圧制御ユニット | | ほう酸水注入系 | | ○ | | ○ | | A系(I系) | B系(II系) | A系 | B系 | ○ | ○ | ○ | ○ | | <p>【女川】 <u>設計方針の相違</u> 泊は、原子炉の高温停止及び低温停止に必要な設備、原子炉外乱に対処するために必要な設備及び使用済燃料ピットの冷却機能及び給水機能の維持に必要な系統について整理し、防護対象設備を選定した。 このため、内部溢水影響評価における防護対象設備がその安全機能を喪失しないことを確認するための判定表は用いていない。(補足説明資料4)</p> |
| 原子炉施設 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 緊急停止機能 | | 未臨界維持機能 (IKU又はSLC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ○ | | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 水圧制御ユニット | | ほう酸水注入系 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ○ | | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A系(I系) | B系(II系) | A系 | B系 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ○ | ○ | ○ | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|------------------------------------|---|---------------|--------------------------------------|--------|----|---------------|--|--|---------------|--|--|--|--|--|--|---|--|--|--|--|--|--|------------------------------------|--|--|--------------------------------------|--|--|-------------|---|--|--|--|--|--|--|-----------|------------|---------------|-----------|--------|--|---------------|----|----|----|----|----|----|----|---|---|---|---|---|---|---|--|--|
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| 原子炉施設 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 高温停止機能（2区分以上） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 区分Ⅰ ADS(A) and (RDR(A) or LPCS) | | | 区分Ⅱ ADS(B) and (RDR(B) or RDR(C)) | | | 区分Ⅲ HPCS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 自動 減圧系 | 残留熱 除去系 | 低圧炉心 スプレイ系 | 自動 減圧系 | 残留熱除去系 | | 高圧炉心 スプレイ系 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A系 | A系 | A系 | B系 | B系 | C系 | H系 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ○ | ○ | ○ | ○ | ○ | ○ | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

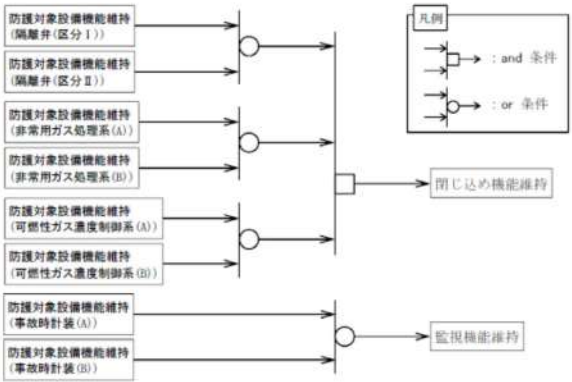
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| 原子炉施設 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 原子炉隔離時注水機能 | | 手動逃がし機能 | | | 低温停止機能 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ○ | | ○ | | | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 原子炉隔離時冷却系 | 高圧炉心スプレイ系 | 逃がし安全弁 | 自動減圧系 | | 残留熱除去系 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ○ | ○ | ○ | ○ | | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | H系 | - | A系 | B系 | A系 | B系 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ○ | ○ | ○ | ○ | ○ | ○ | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

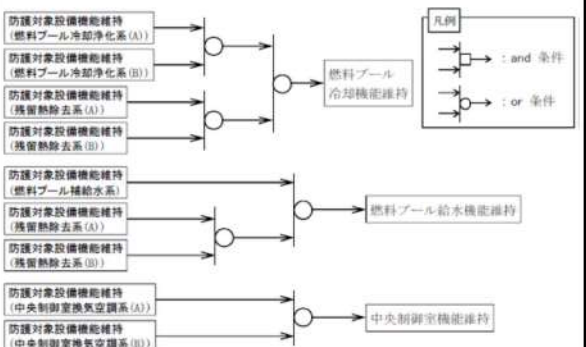
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| 原子炉施設 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 閉じ込め機能 | | | | | | 監視機能 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 隔離弁機能 | | 非常用ガス処理系 | | 可燃性ガス濃度制御系 | | 事故時計装系 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ○ | | ○ | | ○ | | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A系(I系) | B系(II系) | A系 | B系 | A系 | B系 | A系 | B系 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---------------|---|---------------|------|-----------|----|--------|----|------------|--|-------|--|------|--|--|--|------|--|--|--|--|--|---|--|--|--|---|--|--|--|---|--|------------|--|--------|--|-----------|--|--------|--|------------|--|---|--|---|--|---|--|---|--|---|--|----|----|----|----|---|----|----|----|----|---|---|---|---|---|---|---|---|---|--|--|
| |  <p style="text-align: center;">表1 安全機能整理表(5/5)</p> <table border="1" data-bbox="696 667 1265 865"> <thead> <tr> <th colspan="8">使用済燃料プールの冷却機能</th> <th colspan="2">中央制御室</th> </tr> <tr> <th colspan="4">冷却機能</th> <th colspan="4">給水機能</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td colspan="4">○</td> <td colspan="4">○</td> <td colspan="2">○</td> </tr> <tr> <td colspan="2">燃料プール冷却浄化系</td> <td colspan="2">残留熱除去系</td> <td colspan="2">燃料プール補給水系</td> <td colspan="2">残留熱除去系</td> <td colspan="2">中央制御室換気空調系</td> </tr> <tr> <td colspan="2">○</td> <td colspan="2">○</td> <td colspan="2">○</td> <td colspan="2">○</td> <td colspan="2">○</td> </tr> <tr> <td>A系</td> <td>B系</td> <td>A系</td> <td>B系</td> <td>-</td> <td>A系</td> <td>B系</td> <td>A系</td> <td>B系</td> </tr> <tr> <td>○</td> <td>○</td> <td>○</td> <td>○</td> <td>○</td> <td>○</td> <td>○</td> <td>○</td> <td>○</td> </tr> </tbody> </table> <p>11. 使用済燃料プールの冷却機能 【判定基準】 燃料プール冷却浄化系(A)又は(B), 又は残留熱除去系(燃料プール水の冷却)(A)又は(B)の機能が維持されていること。</p> <p>12. 使用済燃料プールの給水機能 【判定基準】 燃料プール補給水系, 又は残留熱除去系(燃料プール水の補給)(A)又は(B)の機能が維持されていること。</p> <p>13. 中央制御室 【判定基準】 中央制御室換気空調系(A)又は(B)の機能が維持されていること。</p> | 使用済燃料プールの冷却機能 | | | | | | | | 中央制御室 | | 冷却機能 | | | | 給水機能 | | | | | | ○ | | | | ○ | | | | ○ | | 燃料プール冷却浄化系 | | 残留熱除去系 | | 燃料プール補給水系 | | 残留熱除去系 | | 中央制御室換気空調系 | | ○ | | ○ | | ○ | | ○ | | ○ | | A系 | B系 | A系 | B系 | - | A系 | B系 | A系 | B系 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | |
| 使用済燃料プールの冷却機能 | | | | | | | | 中央制御室 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 冷却機能 | | | | 給水機能 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ○ | | | | ○ | | | | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 燃料プール冷却浄化系 | | 残留熱除去系 | | 燃料プール補給水系 | | 残留熱除去系 | | 中央制御室換気空調系 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ○ | | ○ | | ○ | | ○ | | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A系 | B系 | A系 | B系 | - | A系 | B系 | A系 | B系 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|------------|--|---------|--|
| | <p style="text-align: right;">補足説明資料 18</p> <p>配管の耐震評価の考え方</p> <p>配管の耐震設計については、日本電気協会「原子力発電所耐震設計技術指針『JEAG4601』」等に基づき、一次応力評価、一次＋二次応力評価、疲労評価を実施している。</p> <p>一方、地震荷重に対する配管の破損形態と設計限界に関しては、これまでに様々な試験や研究等が実施されており、以下のようない知見が得られている。</p> <ul style="list-style-type: none"> ・配管の地震荷重による破損形態は、ラチェットを伴う低サイクル疲労であり、塑性崩壊は起きなかった。 ・ラチェットを伴う低サイクル疲労による破損寿命は、使用材料の設計疲労線図に対して余裕がある。 ・配管に設計許容限界を超える地震荷重が負荷された場合でも、進行性過大変形が発生しない。 ・疲労に対する耐震設計上の制限を設けることにより、配管の変形を塑性崩壊が起きないレベルに抑えることが可能であり、崩壊防止のための一次応力制限は不要である。 <p>（詳細は別紙（参考文献抜粋）参照）</p> <p>ここで、内部溢水影響評価において着目する地震起因による耐震B、Cクラス配管から溢水が発生する損傷モードは、配管にき裂若しくはそれ以上の損傷が生じる状態であり、上記知見によれば、低サイクルラチェット疲労に起因するものである。</p> <p>したがって、今回の耐震B、Cクラス配管の耐震評価については、溢水防止の観点から、疲労に着目した評価手法及び評価基準値を適用し、配管のパウンダリ機能が確保されることを確認する。</p> <p>参考文献：原子力発電所耐震設計技術規定（JEAC4601-2008、日本電気協会）</p> | | <p>【女川】</p> <p>設計方針の相違</p> <p>泊、大阪では耐震Sクラスと同様の「JEAG等」に基づく評価手法及び評価基準値を適用することから、女川の疲労に着目した評価手法及び評価基準値を適用しない。</p> |

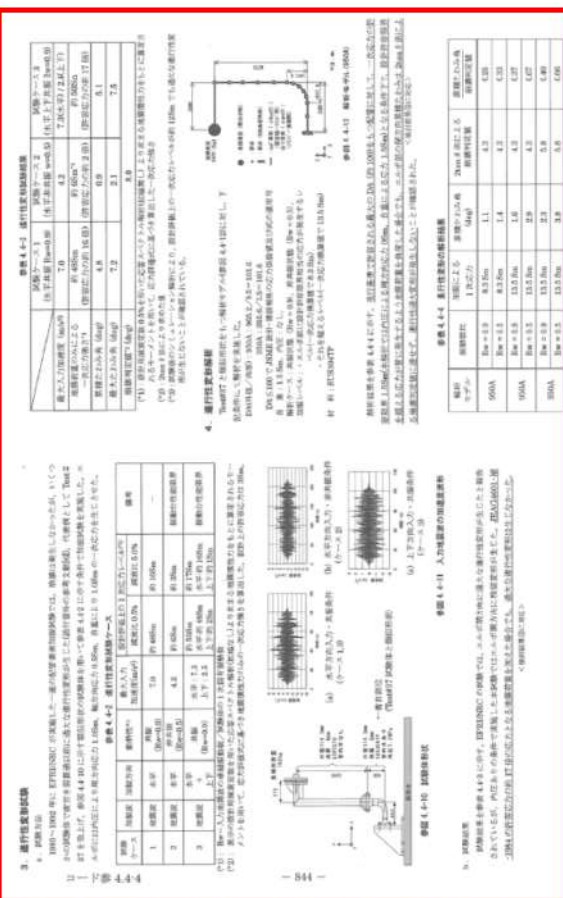
赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

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| | <p>図2 配管要素試験 (原子力発電所耐震設計技術規程 JEAC4601-2008 より抜粋)</p> | | <p>【女川】 設計方針の相違 泊、大阪では耐震Sクラスと同様の「JEAC等」に基づく評価手法及び評価基準値を適用することから、女川の疲労に着目した評価手法及び評価基準値を適用しない。</p> |

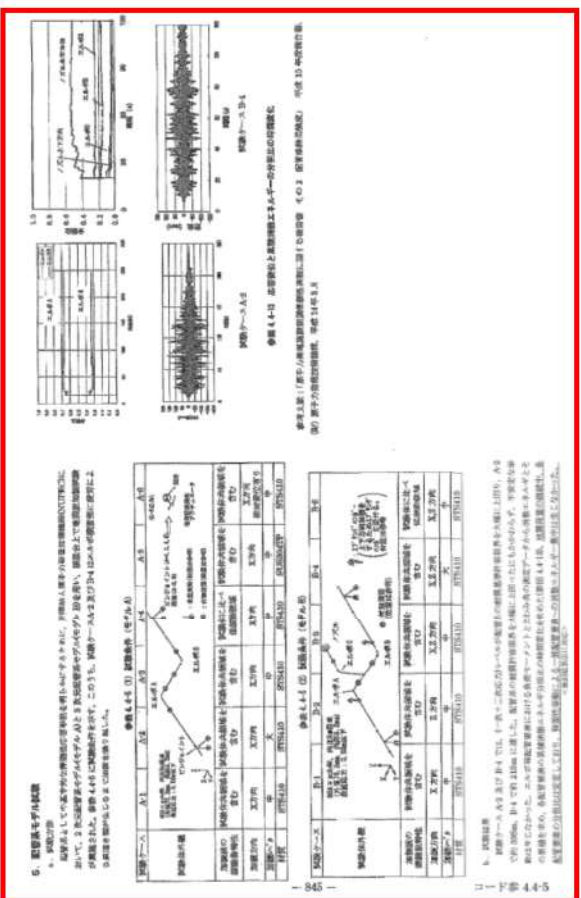
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| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|------------|-------------|---------|--|
| | | | <p>【女川】 設計方針の相違 泊、大阪では耐震Sクラスと同様の「JEA9等」に基づく評価手法及び評価基準値を適用することから、女川の疲労に着目した評価手法及び評価基準値を適用しない。</p> |

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|------------|--|---------|--|
| |  <p>図4 配管要素試験（原子力発電所耐震設計技術規程 JEAC4601-2008より抜粋）</p> | | <p>【女川】 設計方針の相違 泊、大阪では耐震Sクラスと同様の「JEAG等」に基づく評価手法及び評価基準値を適用することから、女川の疲労に着目した評価手法及び評価基準値を適用しない。</p> |

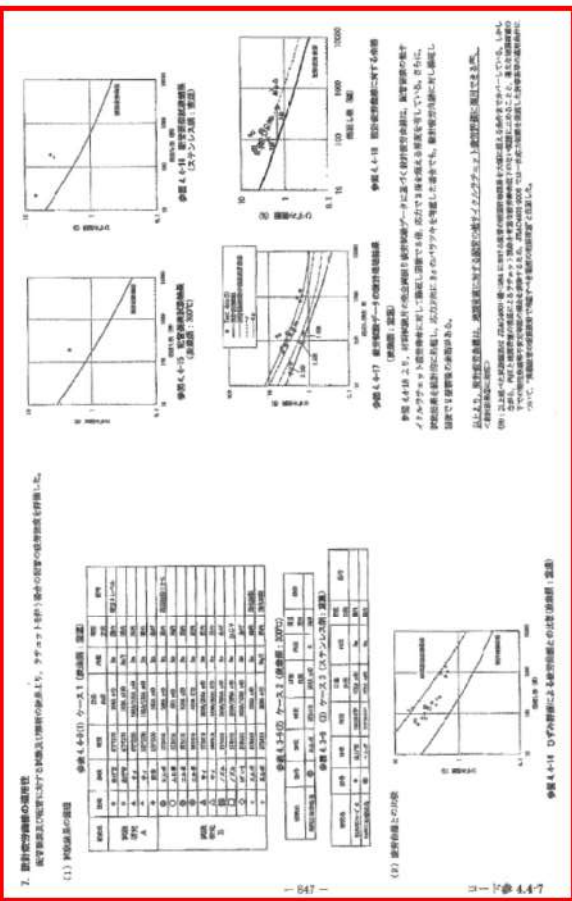
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 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|------------|--|---------|--|
| |  <p>図5 配管要素試験（原子力発電所耐震設計技術規程 JEAC4601-2008より抜粋）</p> | | <p>【女川】 設計方針の相違 泊、大阪では耐震Sクラスと同様の「JEAG等」に基づく評価手法及び評価基準値を適用することから、女川の疲労に着目した評価手法及び評価基準値を適用しない。</p> |

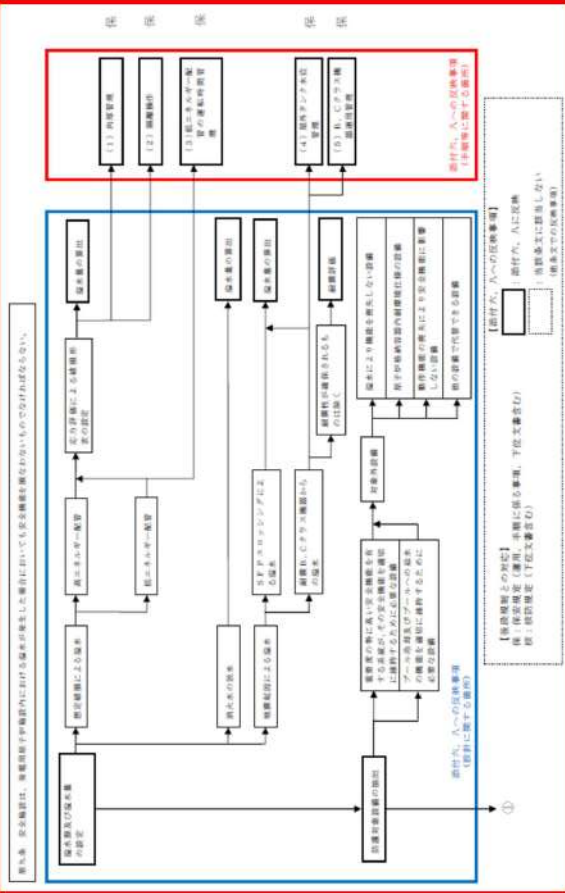
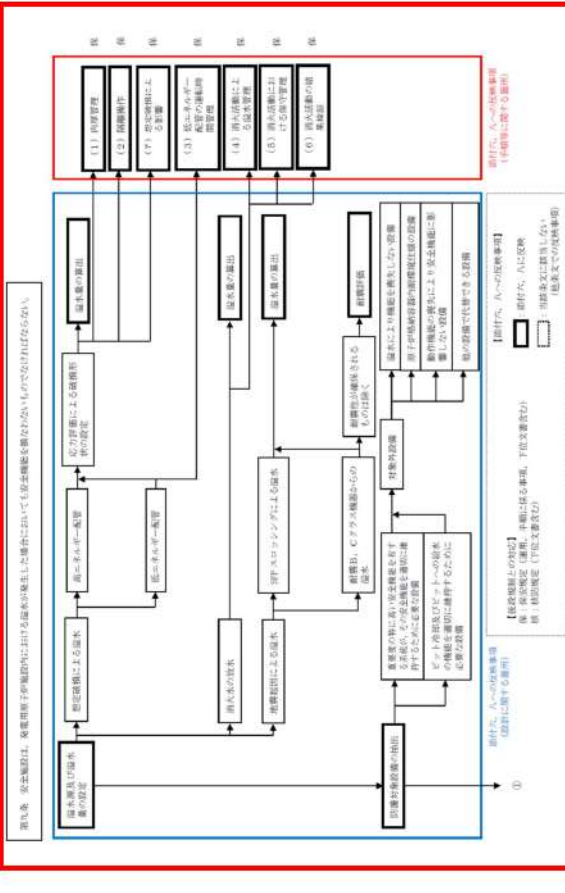
赤字：設備、運用又は体制の相違（設計方針の相違）
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| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
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| | <p>図6 配管要素試験 (原子力発電所耐震設計技術規程 JEA4601-2008より抜粋)</p> | | <p>【女川】 設計方針の相違 泊、大阪では耐震Sクラスと同様の「JEA等」に基づく評価手法及び評価基準値を適用することから、女川の疲労に着目した評価手法及び評価基準値を適用しない。</p> |

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| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|------------|--|---------|--|
| |  <p>図7 配管要素試験（原子力発電所耐震設計技術規程 JEAC4601-2008より抜粋）</p> | | <p>【女川】 設計方針の相違 泊、大阪では耐震Sクラスと同様の「JEAG等」に基づく評価手法及び評価基準値を適用することから、女川の疲労に着目した評価手法及び評価基準値を適用しない。</p> |

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|------------|--|---|---|
| | <p>別添資料2 運用、手順説明資料 溢水による損傷の防止等</p>  <p>①</p> | <p>別添資料2 運用、手順説明資料 溢水による損傷の防止等</p>  <p>①</p> | <p>相違理由</p> <p>【大阪】 記載方針の相違 女川審査実績の反映</p> <p>【女川】 運用の相違 女川と泊の運用の相違については、比較表本文「1.7.9 手順等」で明確にする。</p> |

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|------------|---|---|---|
| | <p>【設計方針、Aへの反映事項】 ① 設計方針、Aへの反映事項 ② 設計方針、Aへの反映事項 ③ 設計方針、Aへの反映事項 ④ 設計方針、Aへの反映事項 ⑤ 設計方針、Aへの反映事項 ⑥ 設計方針、Aへの反映事項 ⑦ 設計方針、Aへの反映事項 ⑧ 設計方針、Aへの反映事項 ⑨ 設計方針、Aへの反映事項 ⑩ 設計方針、Aへの反映事項 ⑪ 設計方針、Aへの反映事項 ⑫ 設計方針、Aへの反映事項 ⑬ 設計方針、Aへの反映事項 ⑭ 設計方針、Aへの反映事項 ⑮ 設計方針、Aへの反映事項 ⑯ 設計方針、Aへの反映事項 ⑰ 設計方針、Aへの反映事項 ⑱ 設計方針、Aへの反映事項 ⑲ 設計方針、Aへの反映事項 ⑳ 設計方針、Aへの反映事項 ㉑ 設計方針、Aへの反映事項 ㉒ 設計方針、Aへの反映事項 ㉓ 設計方針、Aへの反映事項 ㉔ 設計方針、Aへの反映事項 ㉕ 設計方針、Aへの反映事項 ㉖ 設計方針、Aへの反映事項 ㉗ 設計方針、Aへの反映事項 ㉘ 設計方針、Aへの反映事項 ㉙ 設計方針、Aへの反映事項 ㉚ 設計方針、Aへの反映事項 ㉛ 設計方針、Aへの反映事項 ㉜ 設計方針、Aへの反映事項 ㉝ 設計方針、Aへの反映事項 ㉞ 設計方針、Aへの反映事項 ㉟ 設計方針、Aへの反映事項 ㊱ 設計方針、Aへの反映事項 ㊲ 設計方針、Aへの反映事項 ㊳ 設計方針、Aへの反映事項 ㊴ 設計方針、Aへの反映事項 ㊵ 設計方針、Aへの反映事項 ㊶ 設計方針、Aへの反映事項 ㊷ 設計方針、Aへの反映事項 ㊸ 設計方針、Aへの反映事項 ㊹ 設計方針、Aへの反映事項 ㊺ 設計方針、Aへの反映事項 ㊻ 設計方針、Aへの反映事項 ㊼ 設計方針、Aへの反映事項 ㊽ 設計方針、Aへの反映事項 ㊾ 設計方針、Aへの反映事項 ㊿ 設計方針、Aへの反映事項</p> | <p>【設計方針、Aへの反映事項】 ① 設計方針、Aへの反映事項 ② 設計方針、Aへの反映事項 ③ 設計方針、Aへの反映事項 ④ 設計方針、Aへの反映事項 ⑤ 設計方針、Aへの反映事項 ⑥ 設計方針、Aへの反映事項 ⑦ 設計方針、Aへの反映事項 ⑧ 設計方針、Aへの反映事項 ⑨ 設計方針、Aへの反映事項 ⑩ 設計方針、Aへの反映事項 ⑪ 設計方針、Aへの反映事項 ⑫ 設計方針、Aへの反映事項 ⑬ 設計方針、Aへの反映事項 ⑭ 設計方針、Aへの反映事項 ⑮ 設計方針、Aへの反映事項 ⑯ 設計方針、Aへの反映事項 ⑰ 設計方針、Aへの反映事項 ⑱ 設計方針、Aへの反映事項 ⑲ 設計方針、Aへの反映事項 ⑳ 設計方針、Aへの反映事項 ㉑ 設計方針、Aへの反映事項 ㉒ 設計方針、Aへの反映事項 ㉓ 設計方針、Aへの反映事項 ㉔ 設計方針、Aへの反映事項 ㉕ 設計方針、Aへの反映事項 ㉖ 設計方針、Aへの反映事項 ㉗ 設計方針、Aへの反映事項 ㉘ 設計方針、Aへの反映事項 ㉙ 設計方針、Aへの反映事項 ㉚ 設計方針、Aへの反映事項 ㉛ 設計方針、Aへの反映事項 ㉜ 設計方針、Aへの反映事項 ㉝ 設計方針、Aへの反映事項 ㉞ 設計方針、Aへの反映事項 ㉟ 設計方針、Aへの反映事項 ㊱ 設計方針、Aへの反映事項 ㊲ 設計方針、Aへの反映事項 ㊳ 設計方針、Aへの反映事項 ㊴ 設計方針、Aへの反映事項 ㊵ 設計方針、Aへの反映事項 ㊶ 設計方針、Aへの反映事項 ㊷ 設計方針、Aへの反映事項 ㊸ 設計方針、Aへの反映事項 ㊹ 設計方針、Aへの反映事項 ㊺ 設計方針、Aへの反映事項 ㊻ 設計方針、Aへの反映事項 ㊼ 設計方針、Aへの反映事項 ㊽ 設計方針、Aへの反映事項 ㊾ 設計方針、Aへの反映事項 ㊿ 設計方針、Aへの反映事項</p> | <p>【女川】 運用の相違 女川と泊の運用の相違については、比較表本文「1.7.9 手順等」で明確にする。</p> |

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第9条 溢水による損傷の防止等（別添2）

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|------------|---|---|---|
| | <p>図2</p> <p>【設計方針、Aへの反映事項】 ① 設計方針、Aに反映 ② 当種本文に該当しない (他本文での反映事項)</p> <p>【設計方針、Aへの反映事項】 ① 設計方針、Aに反映 ② 当種本文に該当しない (他本文での反映事項)</p> | <p>図3</p> <p>【設計方針、Aへの反映事項】 ① 設計方針、Aに反映 ② 当種本文に該当しない (他本文での反映事項)</p> <p>【設計方針、Aへの反映事項】 ① 設計方針、Aに反映 ② 当種本文に該当しない (他本文での反映事項)</p> | <p>【女川】 運用の相違 女川と泊の運用の相違については、比較表本文「1.7.9 手順等」で明確にする。</p> |

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| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|--|--|-------|-----------------------|-------------|--|----------------|---|---------------------|-------|--|----------------|---|----------------------------------|-------|----------------------|----------------|--|---|---------------|------|----|-------|-----------------------|----------------------|-------------|--|----------------|---|----------------------|-------|---|----|--|-------------|----------------|---|-------|---|----|--|----------------|---|-----------------------|-------|-------------------------|----|---------------------|----------------|---|-------|--|-----------------------|----|---|----------------|---|--|
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| 第九条 小気物の対応手 続 | 運用・手順 | 根本原因が念設計に対する過去の事例の影響を最小限に与えるため、過去事例における運用及び保守事項を定める (当班班長等による体制等) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| (9) 溢水タンク の水位管理 | 運用・手順 | 内部溢水評価で用いる溢水タンクの水量を管理する | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | |
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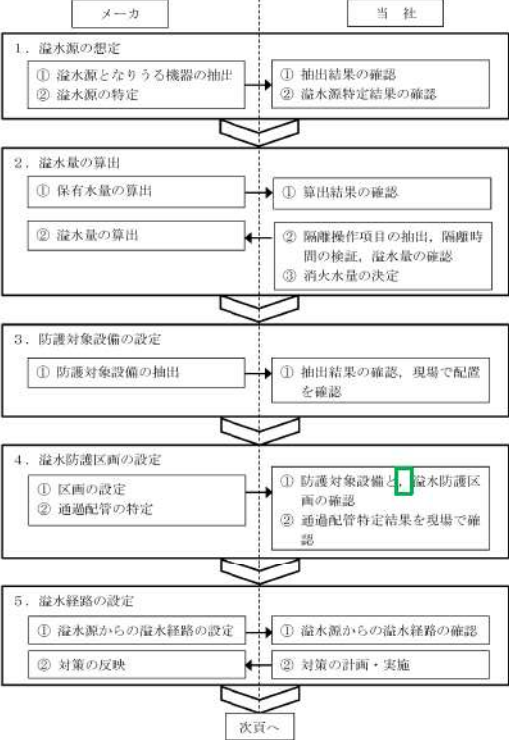

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| | <p style="text-align: right;">別添資料3</p> <p>内部溢水影響評価における確認プロセスについて</p> <p>1. はじめに 本資料は、女川原子力発電所2号炉における内部溢水防護に係る評価内容の確認プロセスの概要をまとめたものである。 内部溢水防護評価に係る要求事項は以下のとおりである。</p> <p>2. 基準要求 【第九条】 設置許可基準規則第九条（溢水による損傷の防止等）にて、安全施設は発電用原子炉施設における溢水が発生した場合においても安全機能を損なわないよう要求されている。また解釈により、「安全機能を損なわないもの」とは、発電用原子炉施設内部で発生が想定される溢水に対し、原子炉を高温停止でき、引き続き低温停止、及び放射性物質の閉じ込め機能を維持できること、また、停止状態にある場合は、引き続きその状態を維持できることをいう。さらに、使用済燃料貯蔵槽においては、プール冷却機能及びプールへの給水機能を維持できることをいう。」と規定されている。 また、「原子力発電所の内部溢水影響評価ガイド（平成26年8月6日原規技発第1408064号 原子力規制委員会決定）」（以下「評価ガイド」という。）の要求事項に基づき、発電用原子炉施設内に設置された機器の破損、消火系統の作動、地震に起因する機器の破損（使用済燃料プールのスロッシングを含む）により発生する溢水に対し、発電用原子炉施設の安全性を損なうことのないよう、防護措置その他の適切な措置が講じられていることを確認する。 評価ガイドに基づき、防護の考え方は以下のとおりである。 ・想定する機器の破損等により生じる溢水に対し、影響を受けて発電用原子炉施設の安全性を損なうことがない設計とする。 ・想定される消火水の放水による溢水に対し、影響を受けて発電用原子炉施設の安全性を損なうことがない設計とする。 ・地震に起因する機器の破損等により生じる溢水（使用済燃料プールのスロッシングを含む）については、機器の耐震性能を評価するとともに、溢水源とした設備の破損により生じる溢水影響を受けて発電用原子炉施設の安全性を損なうことがない設計とする。</p> | <p style="text-align: right;">別添資料3</p> <p>内部溢水影響評価における確認プロセスについて</p> <p>1. はじめに 本資料は、泊発電所3号炉における内部溢水防護に係る評価内容の確認プロセスの概要をまとめたものである。 内部溢水防護評価に係る要求事項は以下のとおりである。</p> <p>2. 基準要求 【第九条】 設置許可基準規則第九条（溢水による損傷の防止等）にて、安全施設は発電用原子炉施設における溢水が発生した場合においても安全機能を損なわないよう要求されている。また、解釈により、「安全機能を損なわないもの」とは、発電用原子炉施設内部で発生が想定される溢水に対し、原子炉を高温停止でき、引き続き低温停止、及び放射性物質の閉じ込め機能を維持できること、また、停止状態にある場合は、引き続きその状態を維持できることをいう。さらに、使用済燃料貯蔵槽においては、プール冷却機能及びプールへの給水機能を維持できることをいう。」と規定されている。 また、「原子力発電所の内部溢水影響評価ガイド（平成26年8月6日原規技発第1408064号 原子力規制委員会決定）」（以下「溢水ガイド」という。）の要求事項に基づき、発電用原子炉施設内に設置された機器の破損、消火系の作動、地震に起因する機器の破損（使用済燃料ピットのスロッシングを含む）により発生する溢水に対し、発電用原子炉施設の安全性を損なうことのないよう、防護措置その他の適切な措置が講じられていることを確認する。 溢水ガイドに基づき、防護の考え方は以下のとおりである。 ・想定する機器の破損等により生じる溢水に対し、影響を受けて発電用原子炉施設の安全性を損なうことがない設計とする。 ・想定される消火水の放水による溢水に対し、影響を受けて発電用原子炉施設の安全性を損なうことがない設計とする。 ・地震に起因する機器の破損等により生じる溢水（使用済燃料ピットのスロッシングを含む）については、機器の耐震性能を評価するとともに、溢水源とした設備の破損により生じる溢水影響を受けて発電用原子炉施設の安全性を損なうことがない設計とする。</p> | <p>【大阪】 記載方針の相違 女川審査実績の反映</p> |

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| | <p>3. 内部溢水影響評価のプロセス</p> <p>内部溢水影響評価においては、プラントメーカー等へ評価委託を実施するとともに、併せて当社で現場確認、図面、設計資料の確認を実施している。具体的には、溢水影響評価に係る溢水源、溢水経路、防護対象設備の機能喪失高さ等を現場状況も含めて確認している。確認のプロセスを図1に、確認内容を表1に示す。</p> <p>なお、今後、当社において溢水影響評価に変更を及ぼすおそれのある各種工事並びに資機材管理についてルール化を実施する。</p> <p>4. 今後の対応</p> <p>(1) 資機材の持込み等に対する管理</p> <p>溢水評価区画において、資機材の持込み等により評価条件としている火災荷重及び滞留面積に見直しがある場合は、溢水評価への影響確認を行う。</p> <p>(2) 水密扉に対する管理</p> <p>水密扉については、開放後の確実な閉止操作、中央制御室における閉止状態の確認及び閉止されていない状態が確認された場合の閉止操作の手順等を整備し、的確に実施する。</p> <p>(3) 改造工事による溢水源の追加、変更の対応</p> <p>改造工事の実施により、溢水源が追加、変更となる場合は、溢水評価への影響確認を行う。</p> | <p>3. 内部溢水影響評価のプロセス</p> <p>内部溢水影響評価においては、プラントメーカー等へ評価委託を実施するとともに、併せて当社で現場確認、図面、設計資料の確認を実施している。具体的には、溢水影響評価に係る溢水源、溢水経路、防護対象設備の機能喪失高さ等を現場状況も含めて確認している。確認のプロセスを図1に、確認内容を表1に示す。</p> <p>なお、今後、当社において溢水影響評価に変更を及ぼすおそれのある各種工事並びに資機材管理についてルール化を実施する。</p> <p>4. 今後の対応</p> <p>(1) 資機材の持込み等に対する管理</p> <p>溢水評価区画において、資機材の持込み等により評価条件としている火災荷重及び滞留面積に見直しがある場合は、溢水評価への影響確認を行う。</p> <p>(2) 水密扉に対する管理</p> <p>水密扉については、開放後の確実な閉止操作、中央制御室における閉止状態の確認及び閉止されていない状態が確認された場合の閉止操作の手順等を整備し、的確に実施する。</p> <p>(3) 改造工事による溢水源の追加、変更の対応</p> <p>改造工事の実施により、溢水源が追加、変更となる場合は、溢水評価への影響確認を行う。</p> | <p>【大阪】</p> <p>記載方針の相違</p> <p>女川審査実績の反映</p> |

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| |  <p>図1 内部溢水影響評価内容の確認プロセスフロー(1/2)</p> |  <p>図1 内部溢水影響評価内容の確認プロセスフロー (1/2)</p> | <p>【大阪】 記載方針の相違 女川審査実績の反映</p> <p>【女川】 記載表現の相違</p> |

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|--|---|---|--|
| <p>【島根2号炉】まとめ資料 9条-別添1-5-9より抜粋</p> <p>・溢水水位その1</p> <p>溢水量と滞留面積より溢水水位を算出した。</p> <p>溢水水位[m] = 溢水量[m³] / 滞留面積[m²] + 床勾配</p> | <p>6. 評価に用いる各項の算出</p> <p>(1) 滞留面積</p> <p>① 滞留面積の算出 → ① 算出された滞留面積の確認</p> <p>(2) 機能喪失高さ</p> <p>① 設置レベルを図面から特定し、水上高さ(床勾配)を考慮した機能喪失高さを設定 → ① 現場で設置状況を確認し計測</p> <p>② 機能喪失高さの確認 ← ② 機能喪失高さの設定</p> <p>7. 溢水影響評価の実施</p> <p>① 防護対象設備が要求事項を満足していることを確認</p> <p>8. 溢水影響評価の判定</p> <p>① 重要度の特に高い系統がその安全機能を失わないことを確認 → ① 重要度の特に高い系統がその安全機能を失わないことを判定</p> | <p>6. 評価に用いる各項の算出</p> <p>(1) 滞留面積</p> <p>① 滞留面積の算出 → ① 算出された滞留面積の確認</p> <p>(2) 床勾配</p> <p>① 床勾配の有無を抽出 → ① 抽出された床勾配を確認</p> <p>(3) 機能喪失高さ</p> <p>① 設置レベルを図面から特定し、機能喪失高さを設定 → ① 現場で設置状況を確認し計測</p> <p>② 機能喪失高さの確認 ← ② 機能喪失高さの設定</p> <p>7. 溢水影響評価の実施</p> <p>① 溢水水位(床勾配及び水面の高さを考慮)を算出し、防護対象設備が要求事項を満足していることを確認 → ① 防護対象設備が要求事項を満足していることを確認</p> <p>8. 溢水影響評価の判定</p> <p>① 重要度の特に高い系統がその安全機能を失わないことを確認 → ① 重要度の特に高い系統がその安全機能を失わないことを判定</p> | <p>【大阪】</p> <p>記載方針の相違</p> <p>女川審査実績の反映</p> <p>【女川】</p> <p>設計方針の相違</p> <p>女川では床勾配を考慮して機能喪失高さを設定しているが、泊では設置レベルを基に機能喪失高さを設定し、算出した溢水水位に床勾配を加算することとしている。</p> <p>(溢水水位の算出において床勾配を考慮する点は島根と同じ)</p> |
| | <p>図1 内部溢水影響評価内容の確認プロセスフロー(2/2)</p> | <p>図1 内部溢水影響評価内容の確認プロセスフロー(2/2)</p> | |

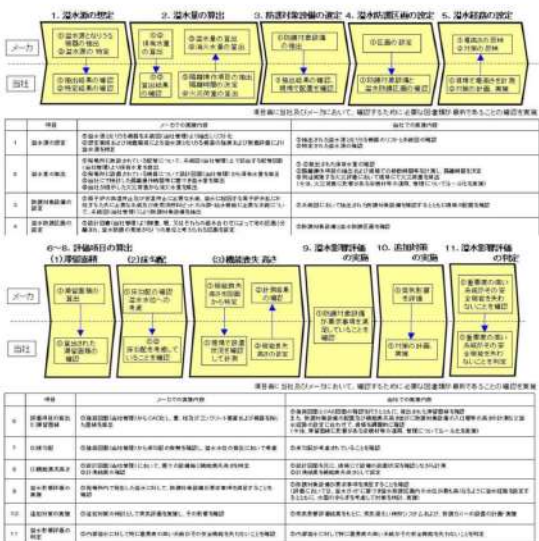
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第9条 溢水による損傷の防止等（別添3）

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|----------|-------------|---|---|----------|---|---|----------|--|--|-------------|---|---------------------------|-----------|--|---|------------------|--|--------------------------------------|--|----|-----------|----------|----------|--|---|----------|---|---|-------------|---|--|-------------|---|---|---|----|-----------|----------|----------|--|---|----------|---|---|-------------|--|--|-------------|---|---|---|
| <p>【伊方3号炉】まとめ資料 別添3 9条-別添3-5より抜粋 表-1 内部溢水影響評価の具体的な確認内容</p> <table border="1"> <thead> <tr> <th>項目</th> <th>メーカーの実施内容</th> <th>当社での実施内容</th> </tr> </thead> <tbody> <tr> <td>1 防護対象設備の抽出</td> <td>① 防護対象設備（原子炉の高温停止及び低電停止に必要な設備、原子炉外乱に対処するための設備及び使用済燃料ピットの冷却・給水機能を維持に必要な設備）を、系統図、配置図から抽出。</td> <td>① 系統図及び配置図で抽出された防護対象設備について確認を行い、現場確認にて防護対象設備の配置を確認。</td> </tr> <tr> <td>2 溢水源の設定</td> <td>① 溢水源となりうる機器を系統図、配置図より抽出しリスト化。 ② 想定破損及び地震起因による損傷により溢水となりうる機器を溢水源として特定。</td> <td>① 抽出された溢水源となりうる機器のリストを系統図および配置図にて確認。 ② 特定された溢水源となる機器は、現場確認にて配置状況を確認。</td> </tr> <tr> <td>3 溢水量の算出</td> <td>① 溢水源となる機器について設計図面（機器）及び配管図面より保有水量を算出。 ② 当社で検討した系統隔離範囲、隔離操作時間に基づき溢水量を算出。 ③ 当社提示の火災荷重より評価用溢水量を算出。</td> <td>① 算出された保有水量を図面により確認。 ② 隔離操作項目を抽出し、必要となる隔離時間を決定。 ③ 火災荷重を算出。</td> </tr> <tr> <td>4 溢水防護区画の設定</td> <td>① 設計図書または現地施工図により、壁、扉またはそれらの組み合わせによって他の区画と分離され、溢水防護の観点から1つの単位と考えられる区画を設定。</td> <td>① 現場確認にて防護対象設備と溢水防護区画を確認。</td> </tr> <tr> <td>5 溢水経路の設定</td> <td>① 溢水源からの溢水経路を設定。 ② 必要な対策を反映した溢水経路の設定。</td> <td>① 溢水経路に対して、壁、機器ハッチ等を現場にて確認。 ② 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| 1 防護対象設備の抽出 | ① 防護対象設備（原子炉の高温停止及び低電停止に必要な設備、原子炉外乱に対処するための設備及び使用済燃料ピットの冷却・給水機能を維持に必要な設備）を、系統図、配置図から抽出。 | ① 系統図及び配置図で抽出された防護対象設備について確認を行い、現場確認にて防護対象設備の配置を確認。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 溢水源の設定 | ① 溢水源となりうる機器を系統図、配置図より抽出しリスト化。 ② 想定破損及び地震起因による損傷により溢水となりうる機器を溢水源として特定。 | ① 抽出された溢水源となりうる機器のリストを系統図および配置図にて確認。 ② 特定された溢水源となる機器は、現場確認にて配置状況を確認。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 溢水量の算出 | ① 溢水源となる機器について設計図面（機器）及び配管図面より保有水量を算出。 ② 当社で検討した系統隔離範囲、隔離操作時間に基づき溢水量を算出。 ③ 当社提示の火災荷重より評価用溢水量を算出。 | ① 算出された保有水量を図面により確認。 ② 隔離操作項目を抽出し、必要となる隔離時間を決定。 ③ 火災荷重を算出。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 溢水防護区画の設定 | ① 設計図書または現地施工図により、壁、扉またはそれらの組み合わせによって他の区画と分離され、溢水防護の観点から1つの単位と考えられる区画を設定。 | ① 現場確認にて防護対象設備と溢水防護区画を確認。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 溢水経路の設定 | ① 溢水源からの溢水経路を設定。 ② 必要な対策を反映した溢水経路の設定。 | ① 溢水経路に対して、壁、機器ハッチ等を現場にて確認。 ② 設水、被水、蒸気の評価において、必要な対策の検討及び実施（水密扉、堰及び逆止弁等）。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 評価項目の算出（1）滞留面積 | ① 建築図面からCAD化し、壁、柱及びコンクリート基礎、機器を除いた面積を算出。 | ① 建築図面とCAD図面の確認を行うとともに、算出された滞留面積を確認。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

第9条 溢水による損傷の防止等（別添3）

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|---|---------------------------|-----------|--|---|-------------------|--|--------------------------------------|--------|---|---|-------------|---|--|-------------|--|--|---|----|------------|----------|-----------|--|---|-----------|--|---------------------------------|--------|-------------------|---------------|--------|--|--|-------------|---|--------------------------------------|-------------|--|--|---|
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| <p>【島根2号炉】</p> <p>まとめ資料 p9条-別添1-添付1-1より抜粋</p> <p>1.1 機能喪失高さ</p> <p>機能喪失高さは「基本設定箇所」を基本とし、溢水水位に応じて機能喪失高さの実力値である「個別設定箇所」に見直す。</p> <p>まとめ資料 p9条-別添1-5-9より抜粋</p> <p>・溢水水位その1</p> <p>溢水量と滞留面積より溢水水位を算出した。</p> <p>溢水水位[m] = 溢水量[m³] / 滞留面積[m²] + 床勾配</p> | <p>【伊方3号炉】まとめ資料 別添3-9条-別添3-5より抜粋</p> <p>表-1 内部溢水影響評価の具体的な確認内容</p> <table border="1"> <tbody> <tr> <td>4 溢水防護区画の設定</td> <td>① 設計図書または現地施工図により、壁、扉またはそれらの組み合わせによって他の区画と分離され、溢水防護の観点から1つの単位と考えられる区画を設定。</td> <td>① 現場確認にて防護対象設備と溢水防護区画を確認。</td> </tr> <tr> <td>5 溢水経路の設定</td> <td>① 溢水源からの溢水経路を設定。 ② 必要な対策を反映した溢水経路の設定。</td> <td>① 溢水経路に対して、壁、扉、機器ハッチ等を現場にて確認。 ② 溢水、被水、蒸気の評価において、必要な対策の検討及び実施（水扉扉、扉及び逆止弁等）。</td> </tr> <tr> <td>6 評価項目の算出 (1)滞留面積</td> <td>① 建築図面からCAD化し、壁、柱及びコンクリート基礎、機器を除いた面積を算出。</td> <td>① 建築図面とCAD図面の確認を行うとともに、算出された滞留面積を確認。</td> </tr> </tbody> </table> | 4 溢水防護区画の設定 | ① 設計図書または現地施工図により、壁、扉またはそれらの組み合わせによって他の区画と分離され、溢水防護の観点から1つの単位と考えられる区画を設定。 | ① 現場確認にて防護対象設備と溢水防護区画を確認。 | 5 溢水経路の設定 | ① 溢水源からの溢水経路を設定。 ② 必要な対策を反映した溢水経路の設定。 | ① 溢水経路に対して、壁、扉、機器ハッチ等を現場にて確認。 ② 溢水、被水、蒸気の評価において、必要な対策の検討及び実施（水扉扉、扉及び逆止弁等）。 | 6 評価項目の算出 (1)滞留面積 | ① 建築図面からCAD化し、壁、柱及びコンクリート基礎、機器を除いた面積を算出。 | ① 建築図面とCAD図面の確認を行うとともに、算出された滞留面積を確認。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 5 溢水経路の設定 | ① 溢水源からの溢水経路を設定。 ② 必要な対策を反映した溢水経路の設定。 | ① 溢水経路に対して、壁、扉、機器ハッチ等を現場にて確認。 ② 溢水、被水、蒸気の評価において、必要な対策の検討及び実施（水扉扉、扉及び逆止弁等）。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 評価項目の算出 (1)滞留面積 | ① 建築図面からCAD化し、壁、柱及びコンクリート基礎、機器を除いた面積を算出。 | ① 建築図面とCAD図面の確認を行うとともに、算出された滞留面積を確認。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|-------------|---------------|
| 泊発電所3号炉審査資料 | |
| 資料番号 | DB10-9 r.13.0 |
| 提出年月日 | 令和5年8月31日 |

泊発電所3号炉

設置許可基準規則等への適合状況について (設計基準対象施設等) 比較表

第10条 誤操作の防止

令和5年8月

北海道電力株式会社

枠囲みの内容は機密情報に属しますので公開できません。

| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|---|-------------|---------|------|
| 比較結果等を取りまとめた資料 | | | |
| 1. 先行審査実績等を踏まえた泊3号炉まとめ資料の変更状況(2017年3月以降) | | | |
| 1-1) 設計方針・運用・体制などを変更し、まとめ資料を修正した箇所と理由 | | | |
| <p>a. 大飯3/4号炉まとめ資料と比較した結果、変更したもの：なし</p> <p>b. 女川2号炉まとめ資料と比較した結果、変更したもの：下記1件</p> <ul style="list-style-type: none"> ・地震時の運転員の安全確保及び操作器の誤接触防止のため、運転員机、中央制御盤に手摺を設置する。(本文、別添)【比較表 p10-10, 22, 27, 31, 37, 149, 150】 <p>c. 他社審査会合の指摘事項等を確認した結果、変更したもの：なし</p> <p>d. 当社が自主的に変更したもの：なし</p> | | | |
| 1-2) 設計方針・運用・体制を変更するものではないが、まとめ資料の記載を充実を行った箇所と理由 | | | |
| <p>a. 大飯3/4号炉まとめ資料と比較した結果、変更したもの：なし</p> <p>b. 女川2号炉まとめ資料と比較した結果、変更したもの：下記4件</p> <ul style="list-style-type: none"> ・操作の容易性に考慮すべき環境条件として凍結の記載を追加(本文、別添)【比較表 p10-10, 13, 15, 21, 24, 31, 32, 33, 34, 44, 149, 150, 151】 ・銘板による識別の記載を追加(本文)【比較表 p10-5, 6, 8, 9, 51, 52, 69, 70】 ・中央制御室床下フロアケーブルダクトの火災感知器、消火設備の記載を追加(本文)【比較表 p10-11, 22, 31, 36】 ・中央制御室外原子炉停止盤について、火災その他の異常な事態により中央制御室での操作が困難となった場合を想定した影響評価に変更。(本文)【比較表 p10-34, 52, 135, 136】 <p>c. 他社審査会合の指摘事項等を確認した結果、変更したもの：下記2件</p> <ul style="list-style-type: none"> ・設計基準事故等時において必要となる現場操作の整理(別紙2)【比較表 p10-82】 ・誤操作防止等の設計方針を適切に設備へ反映する運用(別紙3)【比較表 p10-146】 <p>d. 当社が自主的に変更したもの：なし</p> | | | |
| 1-3) バックフィット関連事項 | | | |
| なし | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--|---|---|--|
| <p>2. 大飯3/4号炉まとめ資料との比較結果の概要</p> | | | |
| <p>2-1) 設備の相違</p> | | | |
| <p>・以下の通り設備の相違はあるが、泊3号炉と大飯発電所3/4号炉の基準適合性の考え方に相違はない。</p> | | | |
| <p>中央制御盤の設備構成</p> | <p>大飯発電所3/4号炉 ハードウェアの操作器、指示計等を配置したアナログ型の中央制御盤である。</p> | <p>泊発電所3号炉 総合デジタルシステムを採用した新型中央制御盤であり、特徴として以下がある。 ・監視及び操作の機能を集中したコンパクトコンソールの適用 ・運転員の情報共有化等を目的とした大型表示盤の適用 ・監視及び操作の集約化を図ったタッチオペレーションの適用</p> | <p>差異理由等 設備構成が異なるが、いずれも誤操作・誤認識を防止し、操作性を良くするという設計思想に基づいた設計という点で同等である。</p> |
| <p>設備の相違に伴う記載の相違</p> | | | |
| <p>・泊3号炉の「盤面器具」はタッチディスプレイ本体及びハードウェアの操作器・指示計等を指す。【比較表 p10-9, 18, 53, 56, 57】 ・泊3号炉の「盤面表示」はソフトウェアの操作器・指示計等を指す。【比較表 p10-9, 18, 53, 56, 58, 62】 ・泊3号炉の「操作器具」タッチディスプレイ本体及びハードウェアの操作器を指す。【比較表 p10-15】 ・泊3号炉の「操作器」はハードウェアの操作器及びソフトウェアの操作器を指す。【比較表 p10-8, 9, 10, 18, 22, 53, 65, 146】</p> | | | |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> </div> <div style="width: 45%; text-align: center;"> <p>新型中央制御盤のイメージ図</p> </div> </div> <div style="text-align: center; margin-top: 10px;"> <p>枠囲みの範囲は機密に係る事項ですので公開することはできません。</p> </div> | | | |

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第10条 誤操作の防止

| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|---|--|--|---|
| <p>第10条：誤操作の防止</p> <p><目次></p> <p>1. 基本方針</p> <p>1.1 要求事項の整理</p> <p>1.2 追加要求事項に対する適合性</p> <p>(1) 位置、構造及び設備</p> <p>(2) 安全設計方針</p> <p>(3) 適合性説明</p> <p>1.3 気象等</p> <p>1.4 設備等</p> <p>2. 誤操作防止並びに操作の容易性</p> <p>比較のため以下の記載順序とし、さらに項目単位または抜粋による記載箇所の入替を行う</p> <p>2.1 概要</p> <p>2.4 中央制御室における操作の容易性</p> <p>2.6 現場操作の容易性</p> <p>2.2 中央制御盤の誤操作防止対策等</p> <p>2.3 その他制御盤の誤操作防止対策等</p> <p>2.5 現場での誤操作防止等</p> <p>2.7 運転員の誤操作防止</p> | <p>第十条：誤操作の防止</p> <p><目次></p> <p>1. 基本方針</p> <p>1.1 要求事項の整理</p> <p>1.2 適合のための基本方針</p> <p>1.2.1 設置許可基準規則第10条第1項に対する基本方針</p> <p>1.2.2 設置許可基準規則第10条第2項に対する基本方針</p> <p>1.3 追加要求事項に対する適合性（手順等含む）</p> <p>(1) 位置、構造及び設備</p> <p>(2) 安全設計方針</p> <p>(3) 適合性説明</p> <p>1.4 気象等</p> <p>1.5 設備等（手順等含む）</p> <p>2. 追加要求事項に対する適合方針</p> <p>2.1 現場操作が必要となる操作の抽出</p> <p>2.2 環境条件の抽出</p> <p>2.3 環境条件下における操作の容易性</p> <p>(1) 中央制御室における操作の容易性（環境条件に対する考慮）</p> <p>(2) 中央制御室以外における操作の容易性（環境条件に対する考慮）</p> <p>2.4 誤操作防止対策</p> <p>2.4.1 中央制御室の誤操作防止対策</p> <p>2.4.2 中央制御室以外の誤操作防止対策</p> <p>2.4.3 その他の誤操作防止</p> | <p>第10条：誤操作の防止</p> <p><目次></p> <p>1. 基本方針</p> <p>1.1 要求事項の整理</p> <p>1.2 適合のための基本方針</p> <p>1.2.1 設置許可基準規則第10条第1項に対する基本方針</p> <p>1.2.2 設置許可基準規則第10条第2項に対する基本方針</p> <p>1.3 追加要求事項に対する適合性（手順等含む）</p> <p>(1) 位置、構造及び設備</p> <p>(2) 安全設計方針</p> <p>(3) 適合性説明</p> <p>1.4 気象等</p> <p>1.5 設備等（手順等含む）</p> <p>2. 追加要求事項に対する適合方針</p> <p>2.1 概要</p> <p>2.2 現場操作が必要となる操作の抽出</p> <p>2.3 環境条件の抽出</p> <p>2.4 環境条件下における操作の容易性</p> <p>(1) 中央制御室における操作の容易性（環境条件に対する考慮）</p> <p>(2) 中央制御室以外における操作の容易性（環境条件に対する考慮）</p> <p>2.5 誤操作防止対策</p> <p>2.5.1 中央制御室の誤操作防止対策</p> <p>2.5.2 中央制御室以外の誤操作防止対策</p> <p>2.5.3 その他の誤操作防止</p> <p>2.6 運転員の誤操作防止</p> | <p>色識別について、</p> <ul style="list-style-type: none"> ・大飯は泊との差異 ・女川は泊との差異 ・泊は女川との差異を識別する。 <p>【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【大飯】 項目名称の相違 ・女川実績の反映</p> <p>【大飯、女川】 項目番号の相違 ・以降、同様の相違は、相違理由の記載を省略する。</p> <p>【大飯】 項目名称の相違 ・女川実績の反映</p> <p>【大飯】 資料構成の相違 ・女川実績の反映</p> |

泊発電所3号炉 DB基準適合性 比較表

赤字：設備、運用又は体制の相違（設計方針の相違）
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第10条 誤操作の防止

| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--|---|--|--|
| <p>3. 技術的能力説明資料 (別添資料) 誤操作の防止</p> | <p>3. 別紙 別紙1 新規制基準適合性申請において新たに設置計画している設計基準対象施設に係る追加設備の誤操作防止について(設置許可基準規則第10条第1項への適合性) 別紙2 現場操作の確認結果について 別紙3 制御盤等の設計方針に関する実運用への反映について</p> <p>4. 別添 別添 女川原子力発電所2号炉 運用、手順説明資料 誤操作の防止</p> | <p>別紙1 新規制基準適合性申請において新たに設置計画している設計基準対象施設に係る追加設備の誤操作防止について(設置許可基準規則第10条第1項への適合性) 別紙2 現場操作の確認結果について 別紙3 制御盤等の設計方針に関する実運用への反映について 別紙4 新型中央制御盤の採用に伴う「盤面器具」等の記載表現について</p> <p>3. 運用、手順説明資料 別添 泊発電所3号炉 運用、手順説明資料 誤操作の防止</p> | <p>【女川】 資料名の相違</p> <p>【大飯、女川】 設備の相違 ・泊3号炉は新型中央制御盤を採用しており、設備の相違に伴う記載表現の相違があるため、説明資料を追加した。</p> <p>【大飯、女川】 資料名の相違</p> |

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| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|---|-------------|---|---|
| <p style="text-align: center;">＜概要＞</p> <p>1. において、設計基準事故対処設備の設置許可基準規則、技術基準規則の追加要求事項を明確化するとともに、それら要求に対する大飯発電所3号炉及び4号炉における適合性を示す。</p> <p>2. において、設計基準事故対処設備について、追加要求事項に適合するために必要となる機能を達成するための設備又は運用等について説明する。</p> <p>3. において、追加要求事項に適合するための技術的能力（手順等）を抽出し、必要となる運用対策等を整理する。</p> | | <p style="text-align: center;">＜概要＞</p> <p>1. において、設計基準対象施設の設置許可基準規則、技術基準規則の追加要求事項を明確化するとともに、それら要求に対する泊発電所3号炉における適合性を示す。</p> <p>2. において、設計基準対象施設について、追加要求事項に適合するために必要となる機能を達成するための設備、運用等について説明する。</p> <p>3. において、追加要求事項に適合するための運用、手順等を抽出し、必要となる運用対策を整理する。</p> | <p>【女川】 記載の充実のため大飯を参照して色識別する。（以降、同様の箇所は「記載充実（大飯参照）」と記載する。</p> <p>【大飯】 記載方針の相違 ・用語定義に基づく記載適正化</p> <p>【大飯】 名称の相違 ・申請プラント</p> <p>【大飯】 記載表現の相違 ・女川及び泊の他条文との整合（記載統一）</p> |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止

大飯発電所3/4号炉

1. 基本方針
 1.1 要求事項の整理
 安全施設について、設置許可基準規則第10条及び技術基準規則第38条において、追加要求事項を明確化する（表1）。

| 設置許可基準規則 第10条（誤操作の防止） | 技術基準規則 第38条（原子炉制御室等） | 備考 |
|---|--|--------|
| 設計基準対象施設は、誤操作を防止するための措置を講じたものでなければならない。 | 2 原子炉制御室には、反応度制御系統及び原子炉停止系統に係る設備を操作する装置、非常用炉心冷却設備その他の非常時に発電用原子炉の安全を確保するための設備を操作する装置、発電用原子炉及び一次冷却系統に係る主要な機械又は器具の動作状態を表示する装置、主要計測装置の計測結果を表示する装置その他の発電用原子炉を安全に運転するための主要な装置（第四十七条第一項に規定する装置を含む。）を集中し、かつ、誤操作することなく適切に運転操作することができるよう施設しなければならない。 | 変更なし |
| 2. 安全施設は、容易に操作することができるものでなければならない。 | — | 追加要求事項 |

女川原子力発電所2号炉

1. 基本方針
 1.1 要求事項の整理
 誤操作の防止について、設置許可基準規則第10条及び技術基準規則第38条における追加要求事項を明確化する（第1表）。

| 設置許可基準規則第10条（誤操作の防止） | 技術基準規則第38条（原子炉制御室等） | 備考 |
|---|--|--------|
| 設計基準対象施設は、誤操作を防止するための措置を講じたものでなければならない。 | 2 原子炉制御室には、反応度制御系統及び原子炉停止系統に係る設備を操作する装置、非常用炉心冷却設備その他の非常時に発電用原子炉の安全を確保するための設備を操作する装置、発電用原子炉及び一次冷却系統に係る主要な機械又は器具の動作状態を表示する装置、主要計測装置の計測結果を表示する装置その他の発電用原子炉を安全に運転するための主要な装置（第四十七条第一項に規定する装置を含む。）を集中し、かつ、誤操作することなく適切に運転操作することができるよう施設しなければならない。 | 変更なし |
| 2. 安全施設は、容易に操作することができるものでなければならない。 | — | 追加要求事項 |

泊発電所3号炉

1. 基本方針
 1.1 要求事項の整理
 誤操作の防止について、設置許可基準規則第10条及び技術基準規則第38条における追加要求事項を明確化する（表1）。

| 設置許可基準規則 第10条（誤操作の防止） | 技術基準規則 第38条（原子炉制御室等） | 備考 |
|---|--|--------|
| 設計基準対象施設は、誤操作を防止するための措置を講じたものでなければならない。 | 2 原子炉制御室には、反応度制御系統及び原子炉停止系統に係る設備を操作する装置、非常用炉心冷却設備その他の非常時に発電用原子炉の安全を確保するための設備を操作する装置、発電用原子炉及び一次冷却系統に係る主要な機械又は器具の動作状態を表示する装置、主要計測装置の計測結果を表示する装置その他の発電用原子炉を安全に運転するための主要な装置（第四十七条第一項に規定する装置を含む。）を集中し、かつ、誤操作することなく適切に運転操作することができるよう施設しなければならない。 | 変更なし |
| 2. 安全施設は、容易に操作することができるものでなければならない。 | — | 追加要求事項 |

【大飯】
 記載表現の相違
 ・女川実績の反映
 【女川】
 資料名の相違

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
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第10条 誤操作の防止

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|---|---|--|--|
| <p>1.2 追加要求事項に対する適合性</p> <p>(1) 位置、構造及び設備</p> <p>ロ. 発電用原子炉施設の一般構造</p> <p>(3) その他の主要な構造</p> <p>(i) 本原子炉施設は、(1)耐震構造、(2)耐津波構造に加え、以下の基本的方針の基に安全設計を行う。</p> <p>a. 設計基準対象施設</p> <p>(e) 誤操作の防止</p> <p>設計基準対象施設は、プラントの安全上重要な機能に支障をきたすおそれがある機器・弁等に対して、色分けや掲示札の取り付け等の識別管理や人間工学的な操作性も考慮した監視操作エリア・設備の配置、中央監視操作の盤面配置及び理解しやすい表示方法とするとともに施錠管理を行い、運転員の誤操作を防止する設計とする。</p> <p>また、中央制御室は原子炉補助建屋（耐震Sクラス）内に設置し、放射線防護措置（遮蔽及び換気空調の閉回路循環運転の実施）、火災防護措置（消火設備の設置）及び照明用電源の確保措置を講じ、環境条件を想定しても、運転員が運転時の異常な過渡変化及び設計基準事故に対応するための設備を容易に操作することができる設計とするとともに、現場操作において同様な環境条件を想定しても、設備を容易に操作することができる設計とする。</p> <p>【説明資料 (2.1 : P2-10-15,16) (2.2 : P2-10-16~26) (2.3 : P2-10-27) (2.4 : P2-10-28~34) (2.5 : P2-10-35,36) (2.6 : P2-10-37~42)】</p> | <p>1.2 適合のための基本方針</p> <p>1.2.1 設置許可基準規則第10条第1項に対する基本方針</p> <p>設計基準対象施設は、プラントの安全上重要な機能に支障をきたすおそれがある機器・弁等に対して、色分けや銘板取付け等の識別管理や人間工学的な操作性も考慮した監視操作エリア・設備の配置、中央監視操作の盤面配置、理解しやすい表示方法とするとともに施錠管理を行い、運転員等の誤操作を防止する設計とする。また、保守点検において誤りが生じにくいよう留意した設計とする。</p> <p>運転時の異常な過渡変化及び設計基準事故発生後、ある時間までは、運転員の操作を期待しなくても必要な安全機能が確保される設計とする。</p> <p>また、原子炉設置変更許可申請（平成25年12月27日申請）において新たに設置計画している設計基準対象施設に係る追加設備の誤操作防止について、別紙1に示す。</p> <p>1.2.2 設置許可基準規則第10条第2項に対する基本方針</p> <p>安全施設は、想定される地震や外部電源喪失等の環境条件下においても、運転員が、中央制御室及び中央制御室以外の操作場所において、容易に操作することができる設計とする。</p> <p>1.3 追加要求事項に対する適合性（手順等含む）</p> <p>(1) 位置、構造及び設備</p> <p>ロ 発電用原子炉施設の一般構造</p> <p>(3) その他の主要な構造</p> <p>(i) 本発電用原子炉施設は、(1)耐震構造、(2)耐津波構造に加え、以下の基本的方針のもとに安全設計を行う。</p> <p>a. 設計基準対象施設</p> <p>(e) 誤操作の防止</p> <p>設計基準対象施設は、プラントの安全上重要な機能に支障をきたすおそれがある機器・弁等に対して、色分けや銘板取付け等の識別管理や人間工学的な操作性も考慮した監視操作エリア・設備の配置、中央監視操作の盤面配置、理解しやすい表示方法とするとともに施錠管理を行い、運転員の誤操作を防止する設計とする。</p> <p>また、中央制御室は耐震性を有する制御建屋内に設置し、放射線防護措置（遮蔽及び換気空調設備の事故時運転モードの実施）、火災防護措置（感知・消火設備の設置）、照明用電源の確保措置を講じ、環境条件を想定しても、運転員が運転時の異常な過渡変化及び設計基準事故に対応するための設備を容易に操作することができる設計とするとともに、現場操作についても同様な環境条件を想定しても、設備を容易に操作することができる設計とする。</p> <p>【審査資料 (2.1 : 10 条-11) (2.2 : 10 条-11~15) (2.3 : 10 条-16~28) (2.4 : 10 条-29~43)】</p> | <p>1.2 適合のための基本方針</p> <p>1.2.1 設置許可基準規則第10条第1項に対する基本方針</p> <p>設計基準対象施設は、プラントの安全上重要な機能に支障をきたすおそれがある機器・弁等に対して、色分けや銘板取付け等の識別管理や人間工学的な操作性も考慮した監視操作エリア・設備の配置、中央監視操作の盤面配置、理解しやすい表示方法とするとともに施錠管理を行い、運転員等の誤操作を防止する設計とする。また、保守点検において誤りが生じにくいよう留意した設計とする。</p> <p>運転時の異常な過渡変化及び設計基準事故発生後、ある時間までは、運転員の操作を期待しなくても必要な安全機能が確保される設計とする。</p> <p>また、原子炉設置変更許可申請（平成25年7月8日申請）において新たに設置計画している設計基準対象施設に係る追加設備の誤操作防止について、別紙1に示す。</p> <p>1.2.2 設置許可基準規則第10条第2項に対する基本方針</p> <p>安全施設は、想定される地震や外部電源喪失等の環境条件下においても、運転員が、中央制御室及び中央制御室以外の操作場所において、容易に操作することができる設計とする。</p> <p>1.3 追加要求事項に対する適合性（手順等含む）</p> <p>(1) 位置、構造及び設備</p> <p>ロ. 発電用原子炉施設の一般構造</p> <p>(3) その他の主要な構造</p> <p>(i) 本発電用原子炉施設は、(1)耐震構造、(2)耐津波構造に加え、以下の基本的方針のもとに安全設計を行う。</p> <p>a. 設計基準対象施設</p> <p>(e) 誤操作の防止</p> <p>設計基準対象施設は、プラントの安全上重要な機能に支障をきたすおそれがある機器・弁等に対して、色分けや銘板取付け等の識別管理や人間工学的な操作性も考慮した監視操作エリア・設備の配置、中央監視操作の盤面配置、理解しやすい表示方法とするとともに施錠管理を行い、運転員の誤操作を防止する設計とする。</p> <p>また、中央制御室は耐震性を有する原子炉補助建屋内に設置し、放射線防護措置（遮蔽及び換気空調設備の閉回路循環運転の実施）、火災防護措置（感知・消火設備の設置）、照明用電源の確保措置を講じ、環境条件を想定しても、運転員が運転時の異常な過渡変化及び設計基準事故に対応するための設備を容易に操作することができる設計とするとともに、現場操作についても同様な環境条件を想定しても、設備を容易に操作することができる設計とする。</p> <p>【説明資料 (2.1 : P10 条-15~16) (2.2 : P10 条-17) (2.3 : P10 条-18~26) (2.4 : P10 条-27~35) (2.5 : P10 条-35~53)】</p> | <p>【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【女川】 記載内容の相違 ・申請年月日</p> <p>【大飯】 項目名称の相違 ・女川実績の反映</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【大飯】 記載内容の相違 ・女川実績反映:銘板</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 名称の相違 ・制御建屋⇄原子炉補助建屋 ・事故時運転モード ⇄閉回路循環運転</p> |

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| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|---|--|---|--|
| <p>(2) 安全設計方針</p> <p>1.1.1 安全設計の基本方針</p> <p>1.1.1.9 誤操作防止及び容易な操作</p> <p>(1) 設計方針</p> <p>原子炉施設は、設計、製作、建設及び試験検査を通じて、信頼性の高いものとし、運転員の誤操作等による異常状態に対しては、警報により、運転員が措置し得るようにするとともに、もし、これらの修正動作が取られない場合にも、原子炉の固有の安全性及び安全保護回路の作動により、過渡変化が安全に収束する設計とする。</p> <p>原子炉施設は、運転員の誤操作を防止する設計とする。 安全施設は、操作が必要となる理由となった事象が有意な可能性をもって同時にたらされる環境条件及び施設で有意な可能性をもって同時にたらされる環境条件下においても、運転員が運転時の異常な過渡変化及び設計基準事故に対応するための設備を中央制御室及び現場操作場所において容易に操作することができる設計とする。</p> <p>【説明資料 (2.1:P2-10-15,16) (2.2:P2-10-16~26) (2.3:P2-10-27) (2.4:P2-10-28~34) (2.5:P2-10-35,36) (2.6:P2-10-37~42)】</p> <p>(2) 手順等</p> <p>a. 現場手動弁の色分け及び保守・点検作業に係る識別管理方法を定めるとともに、弁・機器の施錠管理方法を定め運用する。</p> <p>b. 中央制御室空調装置については、閉回路循環運転に関する運転手順を定め運用する。</p> <p>c. 防火・防災管理業務及び初期消火活動のための体制や運用方法等を定め運用する。</p> | <p>(2) 安全設計方針</p> <p>1.1.1 安全設計の基本方針</p> <p>1.1.1.10 誤操作の防止</p> <p>(1) 設計方針</p> <p>設計基準対象施設は、設計、製作、建設及び試験検査を通じて、信頼性の高いものとし、運転員の誤操作等による異常状態に対しては、警報により、運転員が措置し得るようにするとともに、もし、これらの修正動作が取られない場合にも、発電用原子炉固有の安全性及び安全保護回路の動作により、過渡変化を収束させる設計とする。</p> <p>設計基準対象施設は、運転員の誤操作を防止する設計とする。 安全施設は、操作が必要となる理由となった事象が有意な可能性をもって同時にたらされる環境条件及び施設で有意な可能性をもって同時にたらされる環境条件下においても、運転員が運転時の異常な過渡変化及び設計基準事故に対応するための設備を中央制御室及び中央制御室以外の操作場所において、容易に操作することができる設計とする。</p> <p>【審査資料 (2.1:10条-11) (2.2:10条-11~15) (2.3:10条-16~28) (2.4:10条-29~43)】</p> <p>(2) 手順等</p> <p>誤操作防止に関して、以下の内容を含む手順を定め、適切な管理を行う。</p> <p>a. 現場手動弁の銘板の取付け及び保守・点検作業に係る識別管理方法を定めるとともに、弁・機器の施錠管理方法を定め運用する。</p> <p>b. 中央制御室換気空調系の事故時運転モードに関する運転手順については「1.8.7 火山防護に関する基本方針」及び「1.8.9 外部火災防護に関する基本方針」に示す。</p> <p>c. 防火・防災管理業務及び初期消火活動のための体制及び運用方法等については「10.5 火災防護設備」に示す。</p> | <p>(2) 安全設計方針</p> <p>1.1.1 安全設計の基本方針</p> <p>1.1.1.10 誤操作防止及び容易な操作</p> <p>(1) 設計方針</p> <p>設計基準対象施設は、設計、製作、建設及び試験検査を通じて、信頼性の高いものとし、運転員の誤操作等による異常状態に対しては、警報により、運転員が措置し得るようにするとともに、もし、これらの修正動作が取られない場合にも、発電用原子炉固有の安全性及び安全保護回路の動作により、過渡変化を収束させる設計とする。</p> <p>設計基準対象施設は、運転員の誤操作を防止する設計とする。 安全施設は、操作が必要となる理由となった事象が有意な可能性をもって同時にたらされる環境条件及び施設で有意な可能性をもって同時にたらされる環境条件下においても、運転員が運転時の異常な過渡変化及び設計基準事故に対応するための設備を中央制御室及び中央制御室以外の操作場所において、容易に操作することができる設計とする。</p> <p>【説明資料 (2.1:P10条-15~16) (2.2:P10条-17) (2.3:P10条-18~26) (2.4:P10条-27~35) (2.5:P10条-35~53)】</p> <p>(2) 手順等</p> <p>誤操作防止に関して、以下の内容を含む手順を定め、適切な管理を行う。</p> <p>a. 現場手動弁の銘板の取付け及び保守・点検作業に係る識別管理方法を定めるとともに、弁・機器の施錠管理方法を定め運用する。</p> <p>b. 中央制御室空調装置の閉回路循環運転に関する運転手順については「1.8.8 火山防護に関する基本方針」及び「1.8.10 外部火災防護に関する基本方針」に示す。</p> <p>c. 防火・防災管理業務及び初期消火活動のための体制、運用方法等については「10.5 火災防護設備」に示す。</p> | <p>【女川】 記載充実（大飯参照）</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 記載表現の相違 ・記載の適正化</p> <p>【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【大飯】 記載内容の相違 ・女川実績反映：銘板</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 名称の相違 ・中央制御室換気空調系⇔中央制御室空調装置 ・事故時運転モード⇔閉回路循環運転</p> <p>【大飯、女川】 記載表現の相違</p> |

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第10条 誤操作の防止

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|---|---|---|---|
| <p>d. 地震発生時は運転員機、制御盤の手摺にて身体の安全確保に努めるとともに、操作を中止し安全確保に努めるよう規定類に定め運用する。</p> <p>e. 適切な保守管理を行うとともに、故障時においては補修を行う。</p> <p>f. 識別管理、施錠管理に関する教育を実施する。また、換気空調設備、照明設備に関する運転操作及び保守管理についても教育を実施する。</p> <p>g. 消防訓練を実施し、初期消火活動要員としての資質の向上を図る。</p> <p>1.1.5 計測制御系統施設設計の基本方針</p> <p>1.1.5.2 監視警報装置</p> <p>通常運転時に異常、故障が発生した場合は、これを早期に検知し所要の対策が講じられるよう中性子束、温度、圧力、放射能等を常時自動的に監視し、警報を発する装置を設ける。</p> <p>また、誤動作・誤操作による異常、故障の拡大を防止し事故への進展を確実に防止するようインターロックを設ける。</p> | <p>d. 地震発生時は、操作を中止し身体及びプラントの安全確保に努めるよう社内規程類に定め運用する。</p> | <p>d. 地震発生時は、操作を中止し身体及びプラントの安全確保に努めるよう社内規程類に定め運用する。</p> <p>e. 換気空調設備、照明設備に要求される機能を維持するため、適切な保守管理を行うとともに、故障時においては補修を行う。</p> <p>f. 識別管理、施錠管理に関する教育を実施する。また、換気空調設備、照明設備に関する運転操作及び保守管理についても教育を実施する。</p> <p>g. 消防訓練を実施し、初期消火要員としての資質の向上を図る。</p> <p>1.1.5 計測制御系統施設設計の基本方針</p> <p>1.1.5.2 監視警報装置</p> <p>通常運転時に異常、故障が発生した場合は、これを早期に検知し所要の対策が講じられるよう中性子束、温度、圧力、放射能等を常時自動的に監視し、警報を発する装置を設ける。</p> <p>また、誤動作・誤操作による異常、故障の拡大を防止し事故への進展を確実に防止するようインターロックを設ける。</p> | <p>【大阪】 記載内容の相違 ・女川実績の反映</p> <p>【女川】 記載充実（大阪参照）</p> <p>【大阪】 記載表現の相違 ・保守管理を行う対象設備を明確化</p> <p>【女川】 記載充実（大阪参照）</p> <p>【女川】 記載充実（大阪参照）</p> <p>【大阪】 名称の相違 ・初期消火活動要員 ⇔初期消火要員</p> <p>【女川】 記載充実（大阪参照）</p> |

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第10条 誤操作の防止

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|---|---|---|---|
| <p>(3) 適合性説明</p> <p>第十条 誤操作の防止</p> <p>1 設計基準対象施設は、誤操作を防止するための措置を講じたものでなければならない。</p> <p>2 安全施設は、容易に操作することができるものでなければならない。</p> <p>第1項について</p> <p>運転員の誤操作を防止するため、盤の配置、操作器具等の操作性に留意するとともに、状態表示及び警報表示により原子炉施設の状態が正確、かつ迅速に把握できる設計とする。また、保守管理において誤りが生じにくいよう留意した設計とする。</p> <p>(参考) 泊3号炉と同様の新型中央制御盤である高浜1/2号炉及び美浜3号炉の記載は以下の通り。(参照箇所は二重下線部)</p> <p>運転員の誤操作を防止するため、盤の配置、<u>操作器</u>等の操作性に留意するとともに、状態表示及び警報表示により原子炉施設の状態が正確、かつ迅速に把握できる設計とする。また、保守管理において誤りが生じにくいよう留意した設計とする。</p> | <p>(3) 適合性説明 (誤操作の防止)</p> <p>第十条 設計基準対象施設は、誤操作を防止するための措置を講じたものでなければならない。</p> <p>2 安全施設は、容易に操作することができるものでなければならない。</p> <p>適合のための設計方針</p> <p>第1項について</p> <p>運転員の誤操作を防止するため、盤の配置、操作器具等の操作性に留意するとともに、状態表示及び警報表示により発電用原子炉施設の状態が正確、かつ迅速に把握できる設計とする。また、保守点検において誤りが生じにくいよう留意した設計とする。</p> | <p>(3) 適合性説明</p> <p>第十条 誤操作の防止</p> <p>1 設計基準対象施設は、誤操作を防止するための措置を講じたものでなければならない。</p> <p>2 安全施設は、容易に操作することができるものでなければならない。</p> <p>適合のための設計方針</p> <p>第1項について</p> <p>運転員の誤操作を防止するため、盤の配置、操作器等の操作性に留意するとともに、状態表示及び警報表示により発電用原子炉施設の状態が正確、かつ迅速に把握できる設計とする。また、保守点検において誤りが生じにくいよう留意した設計とする。</p> | <p>【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【大飯、女川】 設備の相違 ・泊の「操作器」はハードウェアの操作器及びソフトウェアの操作器を指す。 (高浜1/2号炉及び美浜3号炉参照)</p> |
| <p>運転時の異常な過渡変化及び設計基準事故発生後、ある時間までは運転員の操作を期待しなくとも必要な安全機能が確保される設計とする。</p> <p>「第2項について」の末尾より再掲</p> <p>さらに、その他の安全施設の操作等についても、プラントの安全上重要な機能に障害をきたすおそれのある機器・弁や外部環境に影響を与えるおそれのある現場弁等に対して、色分けによる識別管理を行い、操作を容易にするとともに、施錠管理により誤操作を防止する設計とする。</p> <p>第2項について</p> <p>原子炉施設の事故の対応操作に必要な各種指示計、原子炉を安全に停止するために必要な原子炉保護設備及び工学的安全施設関係の操作盤は、中央制御室に集中して設ける設計とする。</p> | <p>運転時の異常な過渡変化及び設計基準事故発生後、ある時間までは、運転員の操作を期待しなくとも必要な安全機能が確保される設計とする。</p> <p>さらに、その他の安全施設の操作等についても、プラントの安全上重要な機能を損なうおそれのある機器・弁やプラント外部の環境に影響を与えるおそれのある現場弁等に対して、色分けや銘板取付け等による識別管理を行うとともに、施錠管理により誤操作を防止する設計とする。</p> <p>【審査資料 (2.4.1:10条-29~35) (2.4.2:10条-36~41) (2.4.3:10条-42,43) (別紙1:10条-別紙1-1~1-6)】</p> <p>第2項について</p> <p>発電用原子炉の運転時の異常な過渡変化及び設計基準事故の対応操作に必要な各種指示の確認、発電用原子炉を安全に停止するために必要な安全保護回路及び工学的安全施設関係の操作盤は、中央制御室から操作が可能な設計とする。</p> | <p>運転時の異常な過渡変化及び設計基準事故発生後、ある時間までは、運転員の操作を期待しなくとも必要な安全機能が確保される設計とする。</p> <p>さらに、その他の安全施設の操作等についても、プラントの安全上重要な機能を損なうおそれのある機器・弁やプラント外部の環境に影響を与えるおそれのある現場弁等に対して、色分けや銘板取付け等による識別管理を行うとともに、施錠管理により誤操作を防止する設計とする。</p> <p>【説明資料 (2.1:P10条-15~16) (2.5:P10条-35~53)】</p> <p>第2項について</p> <p>発電用原子炉の運転時の異常な過渡変化及び設計基準事故の対応操作に必要な各種指示の確認、発電用原子炉を安全に停止するために必要な安全保護回路及び工学的安全施設関係の操作盤は、中央制御室から操作が可能な設計とする。</p> | <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【大飯】 記載方針の相違 ・大飯は「第2項について」の末尾に記載がある。泊は誤操作防止を第1項に、操作容易性を第2項に記載している。</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【大飯】 記載内容の相違 ・女川実績反映：銘板</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> |

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|--|--|--|--|
| <p>また、中央制御盤は盤面機器（操作器、指示計、警報表示）をシステムごとにグループ化した配列及び色分けによる識別や操作器のコード化（色、形状、大きさ等の視覚的要素での識別）等を行うことで、通常運転、運転時の異常な過渡変化及び設計基準事故時において運転員の誤操作を防止するとともに容易に操作することができる設計とする。</p> | <p>また、中央制御室の制御盤は、盤面器具（指示計、記録計、操作器具、表示装置、警報表示）を系統毎にグループ化して主制御盤に集約し、操作器具の統一化（色、形状、大きさ等の視覚的要素での識別）並びに操作器具の操作方法に統一性を持たせることで、通常運転、運転時の異常な過渡変化及び設計基準事故時において運転員の誤操作を防止するとともに、容易に操作ができる設計とする。</p> <p style="text-align: right;">【審査資料（2.4.1：10条-29～35）】</p> | <p>また、中央制御盤は、盤面器具及び盤面表示（指示計、記録計、操作器、警報表示）を系統ごとにグループ化して主盤に集約し、操作器の統一化（色、形状、大きさ等の視覚的要素での識別）並びに操作器の操作方法に統一性を持たせることで、通常運転、運転時の異常な過渡変化及び設計基準事故時において運転員の誤操作を防止するとともに、容易に操作ができる設計とする。</p> <p style="text-align: right;">【説明資料（2.5.1：P10条-35～46）】</p> | <p>【女川】 記載表現の相違 ・中央制御室の制御盤⇔中央制御盤 【大飯、女川】 設備の相違 ・泊の「盤面器具」はタッチディスプレイ本体及びハードウェアの操作器・指示計等を指す。 ・泊の「盤面表示」はソフトウェアの操作器・指示計等を指す。 ・泊の「操作器」はハードウェアの操作器及びソフトウェアの操作器を指す。 ・女川の「表示装置」は情報表示のみを行うディスプレイであり泊にはない。 (高浜1/2号炉及び美浜3号炉参照) 【女川】 名称の相違 ・主制御盤⇔主盤 【大飯】 記載表現の相違 ・女川実績の反映</p> |
| <p>(参考) 泊3号炉と同様の新型中央制御盤である高浜1/2号炉及び美浜3号炉の記載は以下の通り。(参照箇所は二重下線部)</p> <p>また、中央制御盤は盤面機器及び盤面表示（操作器、指示計、警報）をシステムごとにグループ化した配列及び色分けによる識別や操作器のコード化（色、形状、大きさ等の視覚的要素での識別）等を行うことで、通常運転、運転時の異常な過渡変化及び設計基準事故時において運転員の誤操作を防止するとともに容易に操作することができる設計とする。</p> | | <p>また、中央制御室以外における操作が必要な安全施設について、プラントの安全上重要な機能に支障をきたすおそれがある機器・弁等に対して、色分けや銘板取付け等の識別管理や視認性の向上を行い、運転員の操作を容易にする設計とする。</p> <p style="text-align: right;">【審査資料（2.4.2：10条-36～41）】</p> | <p>【大飯】 記載方針の相違 ・大飯は「第2項について」の末尾に記載がある。泊は誤操作防止を第1項に、操作容易性を第2項に記載している。 【大飯】 記載表現の相違 ・女川実績の反映 【大飯】 記載内容の相違 ・女川実績反映：銘板</p> |
| <p>「第2項について」の末尾より再掲</p> <p>さらに、その他の安全施設の操作等についても、プラントの安全上重要な機能に障害をきたすおそれのある機器・弁や外部環境に影響を与えるおそれのある現場弁等に対して、色分けによる識別管理を行い、操作を容易にするとともに、施錠管理により誤操作を防止する設計とする。</p> | <p>中央制御室以外における操作が必要な安全施設について、プラントの安全上重要な機能に支障をきたすおそれがある機器・弁等に対して、色分けや銘板取付け等の識別管理や視認性の向上を行い、運転員の操作を容易にする設計とする。</p> <p style="text-align: right;">【審査資料（2.4.2：10条-36～41）】</p> | <p>中央制御室以外における操作が必要な安全施設について、プラントの安全上重要な機能に支障をきたすおそれがある機器・弁等に対して、系統等による色分けや銘板取付け等の識別管理や視認性の向上を行い、運転員の操作を容易にする設計とする。</p> <p style="text-align: right;">【説明資料（2.5.2：P10条-47～51）】</p> | <p>【大飯】 記載表現の相違 ・女川実績の反映 【大飯】 記載内容の相違 ・女川実績反映：銘板</p> |

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|--|---|---|---|
| <p>当該操作が必要となる理由となった事象が有意な可能性をもって同時にたらされる環境条件及び原子炉施設で有意な可能性をもって同時にたらされる環境条件（地震、内部火災、内部溢水、外部電源喪失及び外部火災に伴うばい煙や有毒ガス、降下火砕物）を想定しても、運転員が運転時の異常な過渡変化及び設計基準事故に対応するための設備を中央制御室において容易に操作することができる設計とするとともに、現場操作についても設計基準事故時に操作が必要な箇所は環境条件を想定し、容易に操作することができる設計とする。</p> <p>【説明資料 (2.1 : P2-10-15, 16) (2.2 : P2-10-16~26) (2.3 : P2-10-27) (2.4 : P2-10-28~34) (2.5 : P2-10-35, 36) (2.6 : P2-10-37~42)】</p> <p>(地震)</p> <p>中央制御室及び中央制御盤は、原子炉補助建屋（耐震Sクラス）内に設置し、基準地震動による地震力に対し必要となる機能が喪失しない設計とする。また、中央制御室内に設置する制御盤等は床等に固定することにより、運転操作に影響を与えず容易に操作できる設計とする。さらに、運転員機、制御盤に手摺を設置し、地震発生時における運転員の安全確保及び制御盤上の操作器への誤接触を防止できる設計とする。</p> <p>現場操作については、操作対象設備が基準地震動による地震力に対して機能喪失せず、現場操作場所へのアクセスルートも確保される設計とする。</p> <p>【説明資料 (2.1 : P2-10-15, 16) (2.4.3 : P2-10-30~34)】</p> | <p>当該操作が必要となる理由となった事象が有意な可能性をもって同時にたらされる環境条件及び発電用原子炉施設で有意な可能性をもって同時にたらされる環境条件（地震、内部火災、内部溢水、外部電源喪失並びにばい煙、有毒ガス、降下火砕物による操作雰囲気悪化及び凍結）を想定しても、運転員が運転時の異常な過渡変化及び設計基準事故に対応するための設備を中央制御室において容易に操作することができる設計とするとともに、現場操作についても運転時の異常な過渡変化及び設計基準事故時に操作が必要な箇所は環境条件を想定し、適切な対応を行うことにより容易に操作することができる設計とする。</p> <p>【審査資料 (2.1 : 10条-11) (2.2 : 10条-11~15)】</p> <p>想定される環境条件とその措置は次のとおり。</p> <p>(地震)</p> <p>中央制御室及び制御盤は、耐震性を有する制御建屋内に設置し、基準地震動による地震力に対し必要となる機能が喪失しない設計とする。また、制御盤は床等に固定することにより、地震発生時においても運転操作に影響を与えない設計とする。さらに、制御盤に手摺を設置するとともに天井照明設備には落下防止措置を講じることにより、地震発生時における運転員の安全確保及び制御盤上の操作器具への誤接触を防止できる設計とする。</p> <p>現場操作については、操作対象設備が耐震性を有する原子炉建屋及び制御建屋内に設置されており、基準地震動による地震力に対して機能喪失しない設計とする。</p> <p>【審査資料 (2.3(1) : 10条-16~22) (2.3(2) : 10条-22~28)】</p> | <p>当該操作が必要となる理由となった事象が有意な可能性をもって同時にたらされる環境条件及び発電用原子炉施設で有意な可能性をもって同時にたらされる環境条件（地震、内部火災、内部溢水、外部電源喪失並びにばい煙、有毒ガス、降下火砕物による操作雰囲気悪化及び凍結）を想定しても、運転員が運転時の異常な過渡変化及び設計基準事故に対応するための設備を中央制御室において容易に操作することができる設計とするとともに、現場操作についても運転時の異常な過渡変化及び設計基準事故時に操作が必要な箇所は環境条件を想定し、適切な対応を行うことにより容易に操作することができる設計とする。</p> <p>想定される環境条件とその措置は次のとおり。</p> <p>(地震)</p> <p>中央制御室及び中央制御盤は、耐震性を有する原子炉補助建屋内に設置し、基準地震動による地震力に対し必要となる機能が喪失しない設計とする。また、中央制御室内に設置する制御盤等は床等に固定することにより、地震発生時においても運転操作に影響を与えない設計とする。さらに、運転員機、中央制御盤に手摺を設置するとともに天井照明設備には落下防止措置を講じることにより、地震発生時における運転員の安全確保及び主盤上の操作器への誤接触を防止できる設計とする。</p> <p>現場操作については、操作対象設備が耐震性を有する周辺補機棟及び原子炉補助建屋内に設置されており、基準地震動による地震力に対して機能喪失せず、現場操作場所へのアクセスルートも確保される設計とする。</p> <p>【説明資料 (2.1 : P10条-15~16) (2.2 : P10条-17) (2.3 : P10条-18~26) (2.4 : P10条-27~35)】</p> | <p>【女川】 記載表現の相違</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【大飯】 記載内容の相違 ・女川実績反映：凍結</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 名称の相違 ・制御盤⇔中央制御盤、主盤 ・原子炉建屋⇔周辺補機棟 ・制御建屋⇔原子炉補助建屋</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 設備の相違 ・手摺は運転員の安全確保の観点からも設置場所を選定</p> <p>【女川】 設備の相違 ・泊の「操作器」はハードウェアの操作器及びソフトウェアの操作器を指す。（高浜1 / 2号炉及び美浜3号炉参照）</p> <p>【女川】 記載充実（大飯参照）</p> |
| <p>(参考) 泊3号炉と同様の新型中央制御盤である高浜1 / 2号炉及び美浜3号炉の記載は以下の通り。（参照箇所は二重下線部）</p> <p>中央制御室及び中央制御盤は、原子炉補助建屋（耐震Sクラス）内に設置し、基準地震動による地震力に対し必要となる機能が喪失しない設計とする。また、中央制御室内に設置する中央制御盤等は床等に固定することにより、運転操作に影響を与えず容易に操作できる設計とする。さらに、運転員機、運転コンソールに手摺を設置し、地震発生時における運転員の安全確保及び運転コンソールの操作器への誤接触を防止できる設計とする。</p> | | | |

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| <p>(内部火災)</p> <p>中央制御室に消火器を設置するとともに、火災が発生した場合の運転員の対応を規定類に定め、運転員による速やかな消火を行うことで運転操作に影響を与えず容易に操作することができる設計とする。</p> <p>また、中央制御室盤内に固定式のエアロゾル消火設備を設置するとともに、火災が発生した場合には高感度煙感知器により火災を感知し、固定式のエアロゾル消火設備により消火を行うことを規定類に定めることで速やかな消火を可能とし、容易に操作することができる設計とする。</p> <p>現場操作が必要となる対象設備は、「1.7.1 設計基準対象施設の火災防護に関する基本方針」による設計とすることで、火災発生防止、火災感知及び消火並びに火災の影響軽減の措置を講じ、容易に操作することができる設計とする。</p> <p>【説明資料 (2.1:P2-10-15,16) (2.4.3:P2-10-30~34) (2.6:P2-10-37~42)】</p> | <p>(内部火災)</p> <p>中央制御室に二酸化炭素消火器を設置するとともに、常駐する運転員によって火災感知器及び火災報知設備による早期の火災感知を可能とし、火災が発生した場合の運転員の対応を社内規程類に定め、運転員による速やかな消火を行うことで運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>また、中央制御室床下ケーブルビット内に火災感知器及び自動消火設備である局所ガス消火設備を設置することにより、火災が発生した場合に速やかな消火を行うことで運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>現場操作が必要となる対象設備は、「1.6.1 設計基準対象施設の火災防護に関する基本方針」による設計とすることで、火災発生防止、火災感知及び消火並びに火災の影響軽減の措置を講じ、容易に操作できる設計とする。</p> <p>【審査資料 (2.3(1):10条-16~22) (2.3(2):10条-22~28)】</p> | <p>(内部火災)</p> <p>中央制御室に二酸化炭素消火器及び粉末消火器を設置するとともに、常駐する運転員によって火災感知器及び火災報知設備による早期の火災感知を可能とし、火災が発生した場合の運転員の対応を社内規程類に定め、運転員による速やかな消火を行うことで運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>また、中央制御室床下フロアケーブルダクト内に火災感知器及び自動消火設備であるイナートガス消火設備を設置することにより、火災が発生した場合に速やかな消火を行うことで運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>また、中央制御室内で火災が発生した場合には、盤内の煙検出装置により火災を感知し、常駐する運転員が二酸化炭素消火器による消火を行うことを社内規程類に定めることで速やかな消火を可能とし、容易に操作ができる設計とする。</p> <p>現場操作が必要となる対象設備は、「1.6.1 設計基準対象施設の火災防護に関する基本方針」による設計とすることで、火災発生防止、火災感知及び消火並びに火災の影響軽減の措置を講じ、容易に操作できる設計とする。</p> <p>【説明資料 (2.1:P10条-15~16) (2.3:P10条-18~26) (2.4:P10条-27~35)】</p> | <p>相違理由</p> <p>【女川】 運用の相違 ・消火器の種類</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【大飯】 記載内容の相違 ・女川実績反映:床下ケーブル</p> <p>【女川】 名称の相違 ・ケーブルビット⇔フロアケーブルダクト ・局所ガス消火設備⇔イナートガス消火設備</p> <p>【女川】 記載充実(大飯参照)</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【大飯】 設備の相違① ・泊は中央制御盤の形状・配置構成の違いにより、盤内火災を感知した場合も運転員による早期消火が可能である。 (以下、同様の差異理由箇所には「設備の相違①」と記載)</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> |

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|---|--|--|--|
| <p>(内部溢水)</p> <p>中央制御室周りには、地震時に溢水源となる機器を設けない設計とする。なお、中央制御室周りの消火作業については、中央制御室に影響を与えない消火方法とすることにより、溢水による影響を与えず、中央制御室にて容易に操作することができる設計とする。</p> <p>現場操作が必要となる対象設備は、「1.8 溢水防護に関する基本方針」による設計とすることで、溢水が発生した場合においても安全機能を損なわず、容易に操作することができる設計とする。</p> <p>【説明資料 (2.4.3:P2-10-30~34) (2.6:P2-10-37~42) (2.6:P2-10-37~42)】</p> | <p>(内部溢水)</p> <p>中央制御室には溢水源となる機器を設けない設計とする。また、火災が発生したとしても、運転員が火災状況を確認し、二酸化炭素消火器にて初期消火を行うことで、消火水による溢水により運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>現場操作が必要となる対象設備は、「1.7 溢水防護に関する基本方針」による設計とすることで、溢水が発生した場合においても安全機能を損なわず、容易に操作できる設計とする。</p> <p>【審査資料 (2.3(1):10条-16~22) (2.3(2):10条-22~28)】</p> | <p>(内部溢水)</p> <p>中央制御室には溢水源となる機器を設けない設計とする。また、火災が発生したとしても、運転員が火災状況を確認し、二酸化炭素消火器又は粉末消火器にて初期消火を行うことで、消火水による溢水により運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>現場操作が必要となる対象設備は、「1.7 溢水防護に関する基本方針」による設計とすることで、溢水が発生した場合においても安全機能を損なわず、容易に操作できる設計とする。</p> <p>【説明資料 (2.3:P10条-18~26) (2.4:P10条-27~35)】</p> | <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 運用の相違 ・消火器の種類</p> |
| <p>(外部電源喪失)</p> <p>地震、竜巻・風（台風）、積雪、落雷、外部火災、降下火砕物の降下に伴い外部電源が喪失した場合には、ディーゼル発電機が起動することにより操作に必要な照明用電源を確保し、容易に操作することができる設計とする。</p> <p>また、全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が交流動力電源設備から開始されるまでの間においても、蓄電池内蔵の照明設備又は可搬型の作業用照明により中央制御室における運転操作に必要な照明を確保し、容易に操作することができる設計とする。</p> <p>現場操作が必要となる対象設備は、「10.11 安全避難通路等」による設計とすることで必要な照明を確保し、容易に操作することができる設計とする。</p> <p>【説明資料 (2.4.1:P2-10-29) (2.4.3:P2-10-30~34) (2.6:P2-10-37~42)】</p> | <p>(外部電源喪失)</p> <p>中央制御室における運転操作に必要な照明は、地震、竜巻、風（台風）、積雪、落雷、外部火災及び降下火砕物に伴い外部電源が喪失した場合には、非常用ディーゼル発電機が起動することにより、操作に必要な照明用電源を確保し、容易に操作ができる設計とする。</p> <p>全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が常設代替交流電源設備から開始されるまでの間においても操作できるように、直流照明兼非常用照明及び直流照明を設置することにより、容易に操作ができる設計とする。</p> <p>現場操作が必要となる対象設備は、「10.11 安全避難通路等」による設計とすることで必要な照明を確保し、容易に操作できる設計とする。</p> <p>【審査資料 (2.3(1):10条-16~22) (2.3(2):10条-22~28)】</p> | <p>(外部電源喪失)</p> <p>中央制御室における運転操作に必要な照明は、地震、竜巻、風（台風）、積雪、落雷、外部火災及び降下火砕物に伴い外部電源が喪失した場合には、ディーゼル発電機が起動することにより、操作に必要な照明用電源を確保し、容易に操作ができる設計とする。</p> <p>全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が代替非常用発電機から開始されるまでの間においても操作できるように、無停電運転保安灯及び可搬型照明を設置することにより、容易に操作ができる設計とする。</p> <p>現場操作が必要となる対象設備は、「10.11 安全避難通路等」による設計とすることで必要な照明を確保し、容易に操作できる設計とする。</p> <p>【説明資料 (2.3:P10条-18~26) (2.4:P10条-27~35)】</p> | <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【大飯、女川】 名称の相違 ・非常用ディーゼル発電機⇔ディーゼル発電機 ・交流動力電源設備⇔常設代替交流電源設備⇔代替非常用発電機 ・蓄電池内蔵の照明設備⇔無停電運転保安灯 ・可搬型の作業用照明⇔可搬型照明</p> <p>【女川】 設備の相違 ・女川は非常用直流電源から給電する直流照明兼非常用照明及び直流照明を設置している。泊は蓄電池内蔵の無停電運転保安灯及び可搬型照明を設置しており、全交流動力電源喪失時の照明を確保する観点で同等。</p> |

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|---|--|--|--|
| <p>(ばい煙等による操作環境の悪化)</p> <p>外部火災によるばい煙や有毒ガス及び降下火砕物による中央制御室内の操作環境の悪化に対しては、中央制御室の空調系を閉回路循環運転とし、外気を遮断することにより運転操作に影響を与えず容易に操作することができる設計とする。</p> <p>建屋内の現場操作に対しては、換気空調設備を停止すること等により外気を遮断し、運転操作に影響を与えず容易に操作することができる設計とする。</p> <p>【説明資料 (2.4.2:P2-10-31) (2.4.3:P2-10-30~34) (2.6:P2-10-37~42)】</p> <p>10-8、10-9 ページへ再掲して比較する。</p> <p>さらに、その他の安全施設の操作等についても、プラントの安全上重要な機能に障害をきたすおそれのある機器・弁や外部環境に影響を与えるおそれのある現場弁等に対して、色分けによる識別管理を行い、操作を容易にするとともに、施錠管理により誤操作を防止する設計とする。</p> <p>1.3 気象等 該当なし</p> | <p>(ばい煙等による操作雰囲気悪化)</p> <p>外部火災により発生するばい煙、有毒ガス及び降下火砕物による中央制御室内の操作雰囲気悪化に対しては、中央制御室換気空調系の外気取入ダンパを閉止し、事故時運転モードとすることで外気を遮断することから、運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>建屋内の現場操作に対しては、外気取入運転を行っている換気空調系の外気取入口にフィルタを設置しているため、運転操作に影響を与えず容易に操作できる設計とする。また、換気空調系を停止することにより外気取入を遮断し、運転操作に影響を与えず容易に操作できる設計とする。</p> <p>【審査資料 (2.3(1):10条-16~22) (2.3(2):10条-22~28)】</p> <p>(凍結による操作環境への影響)</p> <p>中央制御室の換気空調系により環境温度が維持されることで、運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>建屋内の現場操作に対しては、換気空調系により環境温度が維持されるため、運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>【審査資料 (2.3(1):10条-16~22) (2.3(2):10条-22~28)】</p> <p>1.4 気象等 該当なし</p> | <p>(ばい煙等による操作雰囲気悪化)</p> <p>外部火災により発生するばい煙、有毒ガス及び降下火砕物による中央制御室内の操作雰囲気悪化に対しては、中央制御室空調装置の外気取入ダンパを閉止し、閉回路循環運転とすることで外気を遮断することから運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>建屋内の現場操作に対しては、外気取入運転を行っている換気空調設備の外気取入口にフィルタを設置しているため、運転操作に影響を与えず容易に操作できる設計とする。また、換気空調設備を停止することにより外気取入を遮断し、運転操作に影響を与えず容易に操作できる設計とする。</p> <p>【説明資料 (2.3:P10条-18~26) (2.4:P10条-27~35)】</p> <p>(凍結による操作環境への影響)</p> <p>中央制御室空調装置により環境温度が維持されることで、運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>建屋内の現場操作に対しては、換気空調設備により環境温度が維持されるため、運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>【説明資料 (2.3:P10条-18~26) (2.4:P10条-27~35)】</p> <p>1.4 気象等 該当なし</p> | <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 名称の相違 ・中央制御室換気空調系⇔中央制御室空調装置 ・事故時運転モード⇔閉回路循環運転</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 名称の相違 ・換気空調系⇔換気空調設備</p> <p>【大飯】 記載内容の相違 ・女川実績反映:凍結</p> <p>【女川】 名称の相違 ・中央制御室の換気空調系⇔中央制御室空調装置 ・換気空調系⇔換気空調設備</p> <p>【大飯】 記載箇所の相違 ・泊は本記載のうち誤操作防止の適合性を「第1項について」の末尾に、操作容易性の適合性を「第2項について」の3段落目に分けて記載している。</p> |

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|--|---|--|--|
| <p>1.4 設備等</p> <p>6.10 制御室</p> <p>6.10.1 通常運転時等</p> <p>6.10.1.1 中央制御室</p> <p>6.10.1.1.1 概要</p> <p>プラントの運転に必要な監視及び操作装置を、集中化し、設置するための中央制御室を設け、同室内に中央制御盤等を設置する。</p> <p>6.10.1.1.2 設計方針</p> <p>中央制御室及び中央制御盤は、以下の方針を満足するように設計する。</p> <p>(1) 原子炉施設の通常運転時、運転時の異常な過渡変化時及び設計基準事故時の対応に必要な計測制御装置を、中央制御盤上で集中監視及び制御が行えるように設計する。</p> | <p>1.5 設備等（手順等含む）</p> <p>6.10 制御室</p> <p>6.10.1 通常運転時等</p> <p>【記載比較のため、設置許可(令和4年6月)より引用！】</p> <p>6.10.1.1 概要</p> <p>計測制御装置のうち、本発電用原子炉の主要な系統の運転・制御に必要な監視及び制御装置は、集中的に監視及び制御が行えるよう中央制御室に設置する。</p> <p>また、中央制御室内での操作が困難な場合に、発電用原子炉をスクラム後の高温状態から低温状態に導くことのできる中央制御室外原子炉停止装置を設置する。</p> <p>6.10.1.2 設計方針</p> <p>(1) 発電用原子炉施設の主要な計測及び制御装置は、中央制御室に配置し、集中的に監視及び制御が行えるようにする。</p> | <p>1.5 設備等（手順等含む）</p> <p>6. 計測制御系統施設</p> <p>6.14 制御室</p> <p>6.14.1 通常運転時等</p> <p>6.14.1.1 概要</p> <p>発電用原子炉施設の集中的な運転操作、監視及び制御を行えるようにするため、中央制御室を設け、同室内に中央制御盤等を設置する。</p> <p>また、中央制御室内での操作が困難な場合に、発電用原子炉をトリップ後の高温状態から低温状態に導くことのできる中央制御室外原子炉停止装置を設置する。</p> <p>6.14.1.2 設計方針</p> <p>中央制御室及び中央制御盤は、以下の方針を満足するように設計する。</p> <p>(1) 中央制御室</p> <p>中央制御室では、発電用原子炉及び主要な関連設備の運転状況、主要パラメータの集中的な監視及び制御並びに安全性を確保するための急速な手動操作を中央制御盤の主盤にて行うことができる設計とする。</p> | <p>相違理由</p> <p>【大飯、女川】 既許可の相違</p> <ul style="list-style-type: none"> ・本項は制御室の概要を示すもので、「中央制御室を設ける」と「中央制御盤等を設置する」ことを記載している大飯と泊の記載が充実している。大飯と泊の情報量は同等であるため、泊の記載表現を採用する。 <p>【大飯】 記載内容の相違</p> <ul style="list-style-type: none"> ・女川実績の反映 <p>【女川】 名称の相違</p> <ul style="list-style-type: none"> ・スクラム⇄トリップ <p>【女川】 記載充実（大飯参照）</p> <p>【大飯、女川】 既許可の相違</p> <ul style="list-style-type: none"> ・「集中的な監視及び制御」の記載は大飯、女川、泊とも同等。「運転状況」、「安全性を確保するための急速な手動操作」を記載している泊の記載を採用する。 |

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| <p>(2) 中央制御盤の配置及び操作器具の盤面配置等については人間工学的な操作性を考慮し設計する。</p> | <p>また、制御盤は誤操作、誤判断を防止でき、かつ、操作が容易に行えるよう人間工学的な観点からの考慮を行う設計とする。</p> | <p>なお、運転指令卓及び大型表示盤は運転員による発電用原子炉及び主要な関連設備の状況の把握が容易となるよう支援することが可能な設計とする。</p> <p>(2) 運転員操作に関する考慮 中央制御盤の配置、操作器具の盤面配置等については誤操作及び誤判断を防止でき、かつ、操作が容易に行えるよう人間工学的な観点からの考慮を行う設計とする。</p> | <p>【大飯、女川】 既許可の相違 ・泊のみの記載。</p> <p>【女川】 名称の相違 ・制御盤⇄中央制御盤</p> <p>【女川】 記載充実（大飯参照） ・泊の「操作器具」はタッチディスプレイ本体及びハードウェアの操作器を指す。 （高浜1/2号炉及び美浜3号炉参照）</p> |
| <p>（参考）泊3号炉と同様の新型中央制御盤である高浜1/2号炉及び美浜3号炉の記載は以下の通り。（参照箇所は二重下線部） 中央制御盤の配置及び<u>操作器具</u>の盤面配置等については人間工学的な操作性を考慮し設計する。</p> | | | <p>【大飯】 記載表現の相違 ・女川実績の反映</p> |
| <p>【有毒ガス防護の反映のため、設置許可(令和2年1月)より引用↓】 また、中央制御室にて同時にもたらされる環境条件（地震、内部火災、内部溢水、外部電源喪失及び外部火災に伴うばい煙や有毒ガス、降下火砕物並びに有毒ガス）を想定しても安全施設を容易に操作することが可能なように設計する。 【説明資料（2.1：P2-10-15,16）（2.2：P2-10-16~26）（2.4：P2-10-28~34）】</p> | <p>また、中央制御室にて同時にもたらされる環境条件（地震、内部火災、内部溢水、外部電源喪失並びにばい煙、有毒ガス、降下火砕物による操作雰囲気悪化及び凍結）を想定しても安全施設を容易に操作することができる設計とする。 【審査資料（2.1：10条-11）（2.2：10条-11~15）（2.3：10条-16~28）（2.4：10条-29~43）】</p> | <p>また、中央制御室にて同時にもたらされる環境条件（地震、内部火災、内部溢水、外部電源喪失並びにばい煙、有毒ガス、降下火砕物による操作雰囲気悪化及び凍結）を想定しても安全施設を容易に操作することができる設計とする。</p> <p>また、保守時においても誤りを生じさせないよう留意した設計とする。</p> <p>また、中央制御室にて同時にもたらされる環境条件（地震、内部火災、内部溢水、外部電源喪失並びにばい煙、有毒ガス、降下火砕物による操作雰囲気悪化及び凍結）を想定しても安全施設を容易に操作することができる設計とする。 【説明資料（2.1：P10条-15~16）（2.2：P10条-17）（2.3：P10条-18~26）（2.4：P10条-27~35）（2.5：P10条-35~53）】</p> | <p>【大飯、女川】 既許可の相違 ・泊のみの記載</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【大飯】 記載内容の相違 ・女川実績反映：凍結</p> <p>【大飯】 記載表現の相違 ・大飯は環境条件にバックフィットの有毒ガスを追記している。ただし大飯、女川とも審査実績としてDB10条の適合性は変更しておらず、泊も同様に10条適合性に変更はないため、有毒ガス防護の評価は26条にて詳細説明する。</p> |

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|--|--|--|---|
| <p>26条の範囲</p> <p>【柏崎刈羽原子力発電所 設置変更許可申請書（6号及び7号炉完本）令和2年5月現在より引用】</p> <p>(2) 設計基準事故時においても、有毒ガスが運転員に及ぼす影響により、運転員の対処能力が著しく低下しないようにするとともに、運転員の過度の放射線被ばくも考慮することで、運転員が中央制御室内にとどまって、必要な操作、措置がとれるようにする。</p> <p>【伊方発電所 発電用原子炉設置変更許可申請書（3号炉完本）令和2年9月現在より引用】</p> <p>(4) 「実用発電用原子炉及びその附属施設の位置、構造及び設備の基準に関する規則」を満足するように、1次冷却系統に係る原子炉施設の損壊又は故障その他の異常が発生した場合、有毒ガスが運転員に及ぼす影響により、運転員の対処能力が著しく低下しないようにするとともに、運転員の過度の放射線被ばくも考慮することで、従事者が支障なく中央制御室に入れるとともに、一定期間中央制御室内にとどまって所要の操作及び措置をとることができる設計とする。</p> <p>比較のため10-17ページより再掲する</p> <p>(4) 「実用発電用原子炉及びその附属施設の位置、構造及び設備の基準に関する規則」を満足するように、1次冷却系統に係る原子炉施設の損壊又は故障その他の異常が発生した場合、従事者が支障なく中央制御室に入れるとともに、一定期間中央制御室内にとどまって所要の操作及び措置をとることができる設計とする。</p> <p>【比較のため6.10.1.2.2項より記載】</p> <p>6.10.1.2.2 設計方針</p> <p>(1) 火災その他の異常な状態により、中央制御室が使用できない場合には、中央制御室外原子炉停止装置を設け、中央制御室外の適切な場所から原子炉を停止し、高温停止状態に直ちに移行し、その後、原子炉を低温停止状態に導き維持することができる設計とする。</p> <p>(2) 高温停止時に、操作が時間的に急を要する機器及び停止中に操作を行う頻度の高い機器の操作器は、中央制御室での操作に優先する中央制御室外原子炉停止盤から操作を行うことができる設計とする。</p> <p>(3) 現場操作を必要とするものについては、非常用照明設備及び通信連絡設備を設ける。</p> | <p>26条の範囲（10条まとめ資料にない記載は26条まとめ資料より引用）</p> <p>【女川原子力発電所 設置変更許可申請書（2号炉完本）令和4年8月現在より引用】</p> <p>(2) 設計基準事故時においても、有毒ガスが運転員に及ぼす影響により、運転員の対処能力が著しく低下しないようにするとともに、運転員の過度の放射線被ばくも考慮することで、運転員が中央制御室内にとどまって、必要な操作、措置がとれるようにする。</p> <p>【東海第二発電所 発電用原子炉設置変更許可申請書（令和4年11月25日、発電用原子炉施設の変更）より引用】</p> <p>(2) 設計基準事故時においても、有毒ガスが運転員に及ぼす影響により、運転員の対処能力が著しく低下しないようにするとともに、運転員の過度の放射線被ばくも考慮することで、運転員が中央制御室内にとどまって、必要な操作、措置がとれるようにする。</p> <p>(3) 中央制御室内での操作が困難な場合には、中央制御室以外からも、原子炉をスクラム後の高温状態から低温状態に容易に導けるようにする。</p> | <p>26条の範囲</p> <p>(3) 中央制御室の居住性</p> <p>設計基準事故時においても、有毒ガスが運転員に及ぼす影響により、運転員の対処能力が著しく低下しないようにするとともに、運転員の過度の放射線被ばくも考慮することで、運転員が中央制御室内にとどまって、必要な操作、措置がとれるようにする。</p> <p>(4) 発電用原子炉の停止状態及び炉心の冷却状態の監視</p> <p>発電用原子炉の停止状態は、中性子源領域中性子束、原子炉トリップ遮断器の状態、制御棒クラスタ位置、1次冷却材のサンプリングによるほう素濃度の測定により、また、炉心の冷却状態については、加圧器水位、1次冷却材圧力・温度、サブクール度によりそれぞれ2種類以上のパラメータで監視又は推定できる設計とする。</p> <p>(5) 中央制御室外からの原子炉停止機能</p> <p>中央制御室内での操作が困難な場合には、中央制御室以外からも、発電用原子炉をトリップ後の高温状態から低温状態に容易に導き維持できる設計とする。</p> <p>高温停止時に、操作が時間的に急を要する機器及び停止中に操作を行う頻度の高い機器の操作器は、中央制御室での操作に優先する中央制御室外原子炉停止盤から操作を行うことができる設計とする。</p> <p>現場操作を必要とするものについては、作業用照明及び通信連絡設備を設ける。</p> | <p>【大飯、女川】 DB26条に関する記載範囲であり、差異理由等はDB26条比較表を参照</p> <p>【伊方、大飯】 記載方針の相違 ・東海第二実績の反映</p> <p>【女川】 記載充実</p> <p>【女川】 既許可の相違</p> <p>【女川】記載充実 【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【女川】用語の相違 【女川】記載の充実</p> <p>【女川】記載充実 ・大飯3、4号炉「6.10.1.2.2設計方針」にて記載している中央制御室外原子炉停止盤の設計方針を踏まえた泊3号炉の設計方針の充実化。</p> <p>【大飯】 設備名称の相違</p> |

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|--|--|---|--|
| <p>26条の範囲</p> <p>(3) 原子炉施設に影響を及ぼす可能性があると想定される自然現象等や発電所構内の状況を昼夜にわたり把握することができる設計とする。</p> <p>10-16ページへ再掲して比較する</p> <p>(4) 「実用発電用原子炉及びその附属施設の位置、構造及び設備の基準に関する規則」を満足するように、1次冷却系統に係る原子炉施設の損壊又は故障その他の異常が発生した場合、従事者が支障なく中央制御室に入れるとともに、一定期間中央制御室内にとどまって所要の操作及び措置をとることができる設計とする。</p> <p>(5) 中央制御室は、必要な操作盤については個別に設置し、共用により運転操作に支障をきたさないよう設計する。また、中央制御室は同一スペースを共用することにより、プラントの状況や運転員の対応状況等の情報を共用しつつ、事故処置を含む総合的な運転管理を図ることができるよう居住性にも配慮した上で、安全性が向上する設計とする。</p> <p>(6) 室内の酸素濃度及び二酸化炭素濃度が活動に支障がない範囲にあることを把握できるように酸素濃度計及び二酸化炭素濃度計を保管する設計とする。</p> | <p>26条の範囲</p> <p>(4) 計測制御装置、制御盤には実用上可能な限り不燃性又は難燃性の材料を用いる。</p> <p>(5) 中央制御室から発電用原子炉施設内の必要な箇所に指示・連絡が行えるようにする。</p> <p>(6) 昼夜にわたり、発電用原子炉施設に影響を及ぼす可能性があると想定される自然現象等や発電所構内の状況を把握することができる設計とする。</p> <p>(7) 中央制御室には、室内の酸素濃度及び二酸化炭素濃度が活動に支障がない範囲にあることを把握できるように酸素濃度計及び二酸化炭素濃度計を保管する。</p> | <p>26条の範囲</p> <p>(6) 中央制御室の火災防護 中央制御盤、計測制御装置には実用上可能な限り不燃性又は難燃性の材料を用いる。</p> <p>(7) 中央制御室からの指示・連絡 中央制御室から発電用原子炉施設内の必要な箇所に指示・連絡が行えるようにする。</p> <p>(8) 施設の外の状況の把握 昼夜にわたり、発電用原子炉施設に影響を及ぼす可能性があると想定される自然現象等や発電所構内の状況を把握することができる設計とする。</p> <p>(9) 酸素濃度計等の施設に関する考慮 中央制御室には、室内の酸素濃度及び二酸化炭素濃度が活動に支障がない範囲にあることを把握できるように酸素濃度・二酸化炭素濃度計を保管する設計とする。</p> | <p>【大飯、女川】 DB26条に関する記載範囲であり、差異理由等はDB26条比較表を参照</p> <p>【女川】記載充実 【大飯】 記載内容の相違 ・女川実績の反映 【女川】 設備名称の相違</p> <p>【女川】記載の充実 【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【女川】記載充実 【大飯】 記載表現の相違 ・女川実績の反映 【女川】 記載表現の相違</p> <p>【大飯】 記載箇所の相違</p> <p>【大飯】共用の相違</p> <p>【女川】記載の充実 【女川】 記載表現の相違 ・大飯実績の反映</p> |

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| <p>6.10.1.1.4 主要設備</p> <p>(1) 中央制御盤</p> <p>中央制御盤は、原子炉制御設備、プロセス計装設備、原子炉保護設備、工学的安全施設、タービン設備、電気設備等の計測制御装置を設けた主盤、補助盤等で構成し、プラントの通常運転時、運転時の異常な過渡変化時及び事故時に必要な操作器、指示計、記録計、CRT表示装置、警報装置等を運転員の操作性及び人間工学的観点からの考慮をして設置する。</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>(参考) 泊3号炉と同様の新型中央制御盤である高浜1/2号炉及び美浜3号炉の記載は以下の通り。(参照箇所は二重下線部)</p> <p>中央制御盤は、原子炉制御設備、プロセス計装設備、原子炉保護設備、工学的安全施設、タービン設備、電気設備等の計測制御装置を設けた運転コンソール(安全系VDU、監視操作VDU、警報VDU及びハードスイッチ)等で構成し、<u>原子炉施設の通常運転時、運転時の異常な過渡変化時及び設計基準事故時の対応に必要な盤面機器及び盤面表示(操作器、指示計、警報)</u>を運転員の操作性を考慮して設置する。</p> </div> <p>なお、中央制御盤は盤面機器(操作器、指示計、警報表示)をシステムごとにグループ化した配列及び色分けによる識別や操作器のコード化(色、形状、大きさ等の視覚的要素での識別)等を行うことで、通常運転時、運転時の異常な過渡変化時及び設計基準事故時における運転員の誤操作の防止及び操作が容易にできるものとする。</p> <p>【説明資料(2.1:P2-10-15,16)(2.2:P2-10-16~26)】</p> | <p>6.10.1.4 主要設備</p> | <p>6.14.1.4 主要設備</p> <p>(1) 中央制御盤</p> <p>中央制御盤は、原子炉制御設備、プロセス計装、原子炉保護設備、工学的安全施設、蒸気タービン設備、電気設備等の計測制御装置による運転監視操作機能を設けた主盤、発電用原子炉及び主要な関連設備の状況の把握が容易となるよう支援するために設けた運転指令卓及び大型表示盤で構成する。主盤は、発電用原子炉施設の通常運転時、運転時の異常な過渡変化時及び設計基準事故時の対応に必要な盤面器具及び盤面表示(指示計、記録計、操作器、警報表示)を運転員の操作性及び人間工学的観点を考慮して設置する。</p> <p>また、中央制御盤による発電用原子炉施設の状態把握を補助するものとしてプラント計算機を設け、プラント性能計算、データの収集、記録等を行う。さらに、定期検査時等の保修作業性向上のため保修用制御盤を設ける。</p> <p>また、中央制御盤は、盤面器具及び盤面表示(指示計、記録計、操作器、警報表示)を系統ごとにグループ化して主盤に集約し、操作器の統一化(色、形状、大きさ等の視覚的要素での識別)並びに操作器の操作方法に統一性を持たせることで、通常運転、運転時の異常な過渡変化及び設計基準事故時において運転員の誤操作を防止するとともに、容易に操作ができる設計とする。</p> <p>【説明資料(2.1:P10条-15~16)(2.5:P10条-35~53)】</p> | <p>【女川】 記載充実(大飯参照)</p> <p>【大飯】 名称の相違</p> <p>【大飯】 記載表現の相違</p> <ul style="list-style-type: none"> ・泊3号炉の既許可 ・高浜1/2号炉及び美浜3号炉を参照 <p>【大飯】 設備の相違</p> <ul style="list-style-type: none"> ・泊に補助盤はなく ・運転指令卓、大型表示盤がある <p>【大飯】 設備の相違</p> <ul style="list-style-type: none"> ・泊の「盤面器具」はタッチディスプレイ本体及びハードウェアの操作器・指示計等を指す。 ・泊の「盤面表示」はソフトウェアの操作器・指示計等を指す。 (高浜1/2号炉及び美浜3号炉参照) <p>【大飯、女川】 既許可の相違</p> <ul style="list-style-type: none"> ・泊のみの記載 <p>【女川】 記載充実(大飯参照)</p> <p>【大飯】 記載表現の相違</p> <ul style="list-style-type: none"> ・泊は「適合のための設計方針第2項について」と整合。 <p>【大飯】 設備の相違</p> <ul style="list-style-type: none"> ・泊の「盤面器具」はタッチディスプレイ本体及びハードウェアの操作器・指 |

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第10条 誤操作の防止

| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|---|--|---|---|
| <p>(3) 中央制御室</p> <p>26条の範囲</p> <p>【大飯発電所 設置変更許可申請書（3号及び4号炉完本）令和3年5月現在より引用】</p> <p>中央制御室（3号及び4号炉共用）は、原子炉補助建屋内に設置し、1次冷却系統に係る原子炉施設の損壊又は故障が発生した場合に、従事者が支障なく中央制御室に入ることができるよう、これに連絡する通路及び出入りするための区域を多重化するとともに、中央制御室内にとどまり必要な操作、措置を行うことができる設計とする。</p> <p>【柏崎刈羽原子力発電所 設置変更許可申請書（6号及び7号炉完本）令和2年5月現在より引用】</p> <p>中央制御室は、有毒ガスが運転員に及ぼす影響により、運転員の対処能力が著しく低下し、安全施設の安全機能が損なわれることがない設計とする。</p> <p>そのために、「有毒ガス防護に係る影響評価ガイド」（平成29年4月5日原規技発第1704052号原子力規制委員会決定）（以下「有毒ガス評価ガイド」という。）を参照し、有毒ガス防護に係る影響評価を実施する。</p> <p>有毒ガス防護に係る影響評価に当たっては、有毒ガスが大気中に多量に放出されるかの観点から、有毒化学物質の揮発性等の性状、貯蔵量、建屋内保管、換気等の貯蔵状況等を踏まえ、敷地内及び中央制御室等から半径10km以内にある敷地外の固定源並びに敷地内の可動源を特定し、特定した有毒化学物質に対して有毒ガス防護のための判断基準値を設定する。</p> <p>また、固定源及び可動源の有毒ガス防護に係る影響評価に用いる貯蔵量等は、現場の状況を踏まえ評価条件を設定する。固定源に対しては、貯蔵容器全てが損傷し、可動源に対しては、影響の最も大きい輸送容器が一基損傷し、有毒化学物質の全量流出によって発生した有毒ガスが大気中に放出される事象を想定し、運転員の吸気中の有毒ガス濃度の評価結果が有毒ガス防護のための判断基準値を下回ることにより、運転員を防護できる設計とする。</p> <p>可動源の輸送ルートは、運転員の吸気中の有毒ガス濃度の評価結果が有毒ガス防護のための判断基準値を下回るよう運用管理を実施する。</p> | <p>6.10.1.4. 1 中央制御室</p> <p>26条の範囲</p> <p>【女川原子力発電所 設置変更許可申請書（2号炉完本）令和4年8月現在より引用】</p> <p>中央制御室は、制御建屋内に設置し、原子炉冷却系統に係る発電用原子炉施設の損壊又は故障が発生した場合に、従事者が支障なく中央制御室に入ることができるよう、これに連絡する通路及び出入りするための区域を多重化する。また、中央制御室内にとどまり必要な操作、措置を行うことができる設計とする。</p> <p>中央制御室は、有毒ガスが運転員に及ぼす影響により、運転員の対処能力が著しく低下し、安全施設の安全機能が損なわれることがない設計とする。</p> <p>そのために、「有毒ガス防護に係る影響評価ガイド」（平成29年4月5日原規技発第1704052号原子力規制委員会決定）（以下「有毒ガス評価ガイド」という。）を参照し、有毒ガス防護に係る影響評価を実施する。</p> <p>有毒ガス防護に係る影響評価に当たっては、有毒ガスが大気中に多量に放出されるかの観点から、有毒化学物質の揮発性等の性状、貯蔵量、建屋内保管、換気等の貯蔵状況等を踏まえ、敷地内及び中央制御室等から半径10km以内にある敷地外の固定源並びに敷地内の可動源を特定し、特定した有毒化学物質に対して有毒ガス防護のための判断基準値を設定する。</p> <p>また、固定源及び可動源の有毒ガス防護に係る影響評価に用いる貯蔵量等は、現場の状況を踏まえ評価条件を設定する。固定源に対しては、貯蔵容器全てが損傷し、可動源に対しては、影響の最も大きい輸送容器が一基損傷し、有毒化学物質の全量流出によって発生した有毒ガスが大気中に放出される事象を想定し、運転員の吸気中の有毒ガス濃度の評価結果が有毒ガス防護のための判断基準値を下回ることにより、運転員を防護できる設計とする。</p> <p>可動源の輸送ルートは、運転員の吸気中の有毒ガス濃度の評価結果が有毒ガス防護のための判断基準値を下回るよう運用管理を実施する。</p> | <p>(2) 中央制御室</p> <p>26条の範囲</p> <p>中央制御室は、原子炉補助建屋内に設置し、1次冷却系統に係る発電用原子炉施設の損壊又は故障が発生した場合に、従事者が支障なく中央制御室に入ることができるよう、これに連絡する通路及び出入りするための区域を多重化する。また、中央制御室内にとどまり必要な操作、措置を行うことができる設計とする。</p> | <p>示計等を指す。</p> <p>・泊の「盤面表示」はソフトウェアの操作器・指示計等を指す。</p> <p>【大飯、女川】 DB26条に関する記載範囲であり、差異理由等はDB26条比較表を参照</p> <p>【女川】 設備名称の相違</p> <p>【大飯】共用の相違</p> <p>【大飯】 記載表現の相違</p> <p>・女川実績の反映</p> <p>【女川、柏崎】 運用の相違</p> <p>・泊は、東海第二等と同様に敷地内可動源に対しては漏洩時の防護措置を取るため、可動源からの有毒ガス濃度の評価結果が防護判断基準値を下回ることにより要員を防護できる設計としないことによる相違。</p> |

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| <p>26条の範囲</p> <p>【伊方発電所 発電用原子炉設置変更許可申請書（3号炉完本）令和2年9月現在 より引用】</p> <p>中央制御室は、有毒ガスが運転員に及ぼす影響により、運転員の対処能力が著しく低下し、安全施設の安全機能が損なわれることがない設計とする。</p> <p>そのために、「有毒ガス防護に係る影響評価ガイド」（平成29年4月5日 原規技発第1704052号原子力規制委員会決定）（以下「有毒ガス評価ガイド」という。）を参照し、有毒ガス防護に係る影響評価を実施する。</p> <p>有毒ガス防護に係る影響評価に当たっては、有毒ガスが大気中に多量に放出されるかの観点から、有毒化学物質の揮発性等の性状、貯蔵量、建屋内保管、換気等の貯蔵状況等を踏まえ、敷地内及び中央制御室等から半径10km以内にある敷地外の固定源並びに敷地内の可動源を特定し、特定した有毒化学物質に対して有毒ガス防護のための判断基準値を設定する。</p> <p>また、固定源の有毒ガス防護に係る影響評価に用いる防液堤等は、現場の設置状況を踏まえ評価条件を設定する。</p> <p>固定源に対しては、貯蔵容器すべてが損傷し、有毒化学物質の全量流出によって発生した有毒ガスが大気中に放出される事象を想定し、運転員の吸気中の有毒ガス濃度の評価結果が有毒ガス防護のための判断基準値を下回ることにより、運転員を防護できる設計とする。</p> <p>可動源に対しては、通信連絡設備による連絡、中央制御室換気空調設備の隔離、防護具の着用等の対策により、運転員を防護できる設計とする。</p> <p>有毒ガス防護に係る影響評価において、有毒ガス影響を軽減するための防液堤等は、適切に保守点検するとともに運用管理を実施する。</p> | <p>26条の範囲</p> <p>【東海第二発電所 発電用原子炉設置変更許可申請書（令和4年11月25日、発電用原子炉施設の変更）より引用】</p> <p>中央制御室は、有毒ガスが運転員に及ぼす影響により、運転員の対処能力が著しく低下し、安全施設の安全機能が損なわれることがない設計とする。</p> <p>そのために、「有毒ガス防護に係る影響評価ガイド」（平成29年4月5日 原規技発第1704052号原子力規制委員会決定）（以下「有毒ガス評価ガイド」という。）を参照し、有毒ガス防護に係る影響評価を実施する。</p> <p>有毒ガス防護に係る影響評価に当たっては、有毒ガスが大気中に多量に放出されるかの観点から、有毒化学物質の揮発性等の性状、貯蔵量、建屋内保管、換気等の貯蔵状況等を踏まえ、敷地内及び中央制御室等から半径10km以内にある敷地外の固定源並びに敷地内の可動源を特定し、特定した有毒化学物質に対して有毒ガス防護のための判断基準値を設定する。</p> <p>また、固定源の有毒ガス防護に係る影響評価に用いる防液堤等は、現場の状況を踏まえ、評価条件を設定する。</p> <p>固定源に対しては、貯蔵容器すべてが損傷し、有毒化学物質の全量流出によって発生した有毒ガスが大気中に放出される事象を想定し、運転員の吸気中の有毒ガス濃度の評価結果が有毒ガス防護のための判断基準値を下回ることにより、運転員を防護できる設計とする。</p> <p>可動源に対しては、発電所敷地内への受入時に発電所員が立会を行い、有毒ガスの発生による異常を検知した場合は、「10.12 通信連絡設備」に記載する通信連絡設備による連絡、中央制御室換気系の隔離、防護具の着用等により運転員を防護できる設計とする。</p> <p>有毒ガス防護に係る影響評価において、有毒ガス影響を軽減することを期待する防液堤は、保守管理及び運用管理を適切に実施する。</p> | <p>26条の範囲</p> <p>中央制御室は、有毒ガスが運転員に及ぼす影響により、運転員の対処能力が著しく低下し、安全施設の安全機能が損なわれることがない設計とする。</p> <p>そのために、「有毒ガス防護に係る影響評価ガイド」（平成29年4月5日 原規技発第1704052号原子力規制委員会決定）（以下「有毒ガス評価ガイド」という。）を参照し、有毒ガス防護に係る影響評価を実施する。</p> <p>有毒ガス防護に係る影響評価に当たっては、有毒ガスが大気中に多量に放出されるかの観点から、有毒化学物質の揮発性等の性状、貯蔵量、建屋内保管、換気等の貯蔵状況等を踏まえ、敷地内及び中央制御室等から半径10km以内にある敷地外の固定源並びに敷地内の可動源を特定し、特定した有毒化学物質に対して有毒ガス防護のための判断基準値を設定する。</p> <p>また、固定源の有毒ガス防護に係る影響評価に用いる貯蔵量等は、現場の状況を踏まえ、評価条件を設定する。</p> <p>固定源に対しては、貯蔵容器すべてが損傷し、有毒化学物質の全量流出によって発生した有毒ガスが大気中に放出される事象を想定し、運転員の吸気中の有毒ガス濃度の評価結果が有毒ガス防護のための判断基準値を下回ることにより、運転員を防護できる設計とする。</p> <p>可動源に対しては、発電所敷地内への受入時に発電所員が立会を行い、有毒ガスの発生による異常を検知した場合は、「10.12 通信連絡設備」に記載する通信連絡設備による連絡、中央制御室空調装置の隔離、防護具の着用等により運転員を防護できる設計とする。</p> | <p>【大飯、女川】 DB26条に関する記載範囲であり、差異理由等はDB26条比較表を参照</p> <p>【東海第二、伊方】 設備の相違 ・有毒ガスに係る調査の結果、現時点においては、スクリーニング評価対象の敷地内外の固定源がないため、スクリーニング評価において有毒ガス影響を軽減することを期待する防液堤がないことによる相違。 （有毒ガス防護に係る影響評価における評価条件の設定方針に関しては、女川及び柏崎と同様、敷地内可動源の防護措置については、東海第二等と同様の方針としている）</p> <p>【東二】 記載表現の相違</p> <p>【伊方】 記載表現の相違 ・東海第二実績の反映</p> <p>【伊方、東海第二】 設備名称の相違</p> |
| <p>【大飯発電所 設置変更許可申請書（3号及び4号炉完本）令和3年5月現在より引用】</p> <p>中央制御室及びこれに連絡する通路並びに運転員その他の従事者が原子炉制御室に入出入りするための区域は、運転員が過度の被ばくを受けないように施設し、運転員の勤務形態を考慮し、事故後30日間において、運転員が中央制御室に入り、とどまっても、中央制御室遮蔽を透過する放射線による線量、中央制御室に侵入した外気による線量及び入退域時の線量が、中央制御室空調装置等の機能とあいまって、「実用発電用原子炉及びその附属施設の技術基準に関する規則」及び「実用発電用原子炉及びその附属施設の技術基準に関する規則の解釈」に示される100mSvを下回るように遮蔽を設ける。</p> | <p>【女川原子力発電所 設置変更許可申請書（2号炉完本）令和4年8月現在より引用】</p> <p>中央制御室及びこれに連絡する通路並びに運転員その他の従事者が中央制御室に入出入りするための区域は、運転員が過度の被ばくを受けないよう施設し、運転員の勤務形態を考慮し、事故後30日間において、運転員が中央制御室に入り、とどまっても、中央制御室遮蔽を透過する放射線による線量、中央制御室に侵入した外気による線量及び入退域時の線量が、中央制御室換気空調系等の機能とあいまって、「実用発電用原子炉及びその附属施設の技術基準に関する規則」及び「実用発電用原子炉及びその附属施設の技術基準に関する規則の解釈」に示される100mSvを下回るように遮蔽を設ける。</p> | <p>中央制御室及びこれに連絡する通路並びに運転員その他の従事者が中央制御室に入出入りするための区域は、運転員が過度の被ばくを受けないよう施設し、運転員の勤務形態を考慮し、事故後30日間において、運転員が中央制御室に入り、とどまっても、中央制御室遮へいを透過する放射線による線量、中央制御室に侵入した外気による線量及び入退域時の線量が、中央制御室空調装置等の機能とあいまって、「実用発電用原子炉及びその附属施設の技術基準に関する規則」及び「実用発電用原子炉及びその附属施設の技術基準に関する規則の解釈」に示される100mSvを下回るように遮蔽を設ける。</p> | <p>【大飯】 記載表現の相違 ・女川実績の反映</p> |

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第10条 誤操作の防止

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|---|--|---|--|
| <p>26条の範囲</p> <p>換気系は他と独立して設け、事故時には外気との連絡口を遮断し、中央制御室非常用循環フィルタユニットを通る閉回路循環方式とし運転員を内部被ばくから防護する設計とする。外部との遮断が長期にわたり、室内の環境が悪くなった場合には、外気を中央制御室非常用循環フィルタユニットで浄化しながら取り入れることも可能な設計とする。</p> <p>また、室内の酸素濃度及び二酸化炭素濃度も活動に支障のない範囲であることを把握できるよう、酸素濃度計及び二酸化炭素濃度計を保管する設計とする。</p> <p>中央制御室は、原子炉施設に影響を及ぼす可能性があると思定される自然現象等や発電所構内の状況を昼夜にわたり把握するため遠隔操作及び暗視機能等を持った監視カメラを設置する。</p> <p>【有毒ガス防護の反映のため、設置許可(令和2年1月)より引用！】</p> <p>中央制御室は、当該操作が必要となる理由となった事象により有意な可能性をもって同時にもたらされる環境条件及び原子炉施設で有意な可能性をもって同時にもたらされる環境条件（地震、内部火災、内部溢水、外部電源喪失及び外部火災に伴うばい煙や有毒ガス、降下火砕物並びに有毒ガス）を想定しても、適切な措置を講じることにより運転員が運転時の異常な過渡変化及び設計基準事故に対応するための設備を容易に操作することができるものとする。</p> | <p>26条の範囲</p> <p>中央制御室換気空調系は他と独立して設け、事故時には外気との連絡口を遮断し、高性能エアフィルタ及びチャコールエアフィルタを内蔵した中央制御室再循環フィルタ装置を通る事故時運転モードとし運転員その他従事者を過度の被ばくから防護する設計とする。外部との遮断が長期にわたり、室内の雰囲気が悪くなった場合には、外気を中央制御室再循環フィルタ装置で浄化しながら取り入れることも可能な設計とする。</p> <p>また、室内の酸素濃度及び二酸化炭素濃度が活動に支障のない範囲であることを把握できるよう、酸素濃度計及び二酸化炭素濃度計を保管する。</p> <p>発電用原子炉施設に影響を及ぼす可能性のあると思定される自然現象等や発電所構内の状況を把握するため遠隔操作、暗視機能等を持った監視カメラを設置し、中央制御室で監視できる設計とする。</p> <p>中央制御室は、当該操作が必要となる理由となった事象が有意な可能性をもって同時にもたらされる環境条件及び発電用原子炉施設で有意な可能性をもって同時にもたらされる環境条件（地震、内部火災、内部溢水、外部電源喪失並びにばい煙、有毒ガス、降下火砕物による操作雰囲気悪化及び凍結）を想定しても、適切な措置を講じることにより運転員が運転時の異常な過渡変化及び設計基準事故に対応するための設備を容易に操作することができるものとする。</p> <p>【審査資料 (2.1:10条-11) (2.2:10条-11~15) (2.3:10条-16~28)】</p> | <p>26条の範囲</p> <p>中央制御室空調装置は他と独立して設け、事故時には外気との連絡口を遮断し、微粒子フィルタ及び活性炭フィルタを内蔵した中央制御室非常用循環フィルタユニットを通る閉回路循環運転とし運転員その他従事者を過度の被ばくから防護する設計とする。また、外部との遮断が長期にわたり、室内の雰囲気が悪くなった場合には、外気を中央制御室非常用循環フィルタユニットで浄化しながら取り入れることも可能な設計とする。</p> <p>また、室内の酸素濃度及び二酸化炭素濃度が活動に支障のない範囲であることを把握できるよう、酸素濃度・二酸化炭素濃度計を保管する。</p> <p>発電用原子炉施設に影響を及ぼす可能性があると思定される自然現象等や発電所構内の状況を把握するため遠隔操作、暗視機能等を持った監視カメラを設置し、中央制御室で監視できる設計とする。</p> <p>中央制御室は、当該操作が必要となる理由となった事象が有意な可能性をもって同時にもたらされる環境条件及び発電用原子炉施設で有意な可能性をもって同時にもたらされる環境条件（地震、内部火災、内部溢水、外部電源喪失並びにばい煙、有毒ガス、降下火砕物による操作雰囲気悪化及び凍結）を想定しても、適切な措置を講じることにより運転員が運転時の異常な過渡変化及び設計基準事故に対応するための設備を容易に操作することができるものとする。</p> <p>【説明資料 (2.1:P10条-15~16) (2.2:P10条-17) (2.3:P10条-18~26) (2.4:P10条-27~35)】</p> | <p>【大阪、女川】 DB26条に関する記載範囲であり、差異理由等はDB26条比較表を参照</p> <p>【大阪】 記載表現の相違 ・女川実績の反映</p> <p>【大阪】 記載表現の相違 ・女川実績の反映</p> <p>【大阪】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 記載表現の相違 ・大阪実績の反映</p> <p>【大阪】 記載表現の相違 ・女川実績の反映</p> <p>【大阪】 記載内容の相違 ・女川実績反映：凍結</p> <p>【大阪】 記載表現の相違 ・大阪は環境条件にバックフィットの有毒ガスを追記している。ただし大阪、女川とも審査実績としてDB10条の適合性は変更しておらず、泊も同様に10条適合性に変更はないため、有毒ガス防護の評価は26条にて詳細説明する。</p> |

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| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--|--|---|---|
| <p>また、現場操作が必要な添付書類十の設計基準事故（蒸気発生器伝熱管破損）時の操作場所である主蒸気・主給水管室においても、環境条件（地震、内部火災、内部溢水、外部電源喪失及び外部火災に伴うばい煙や有毒ガス、降下火砕物）を想定しても容易に操作ができるとともに、操作に必要な照明（アクセスルート上の照明を含む。）は、内蔵の蓄電池からの給電により外部電源喪失時においても点灯を継続する。さらに、その他の安全施設の操作等についても、プラントの安全上重要な機能に障害をきたすおそれのある機器や外部環境に影響を与えるおそれのある現場弁等に対して、色分けによる識別管理及び施錠管理により誤操作を防止する。</p> <p>想定される環境条件及びその措置は以下のとおり。 【説明資料（2.1：P2-10-15,16）（2.4：P2-10-28~34）（2.5：P2-10-35,36）（2.6：P2-10-37~42）】</p> <p>(地震) 中央制御室及び中央制御盤は、原子炉補助建屋（耐震Sクラス）内に設置し、基準地震動による地震力に対し必要となる機能が喪失しないものとする。また、運転員机、制御盤に手摺を設置し、地震発生時における運転員の安全確保及び制御盤上の操作器への誤接触を防止するとともに天井照明設備には落下防止措置を講じる。</p> <p>【説明資料（2.1：P2-10-15,16）（2.4.1：P2-10-28,29）（2.4.3：P2-10-30~34）】</p> <p>(内部火災) 中央制御室に消火器を設置するとともに、火災が発生した場合の運転員の対応を規定類に定め、運転員による速やかな消火を行うことで運転操作に影響を与えず容易に操作できる設計とする。</p> | <p>中央制御室で想定される環境条件とその措置は次のとおり。</p> <p>(地震) 中央制御室及び制御盤は、耐震性を有する制御建屋内に設置し、基準地震動による地震力に対し必要となる機能が喪失しない設計とする。また、制御盤は床等に固定することにより、地震発生時においても運転操作に影響を与えない設計とする。さらに、主制御盤に手摺を設置するとともに天井照明設備には落下防止措置を講じることにより、地震発生時における運転員の安全確保及び制御盤上の操作器への誤接触を防止できる設計とする。 【審査資料（2.3(1)：10条-16~22）】</p> <p>(内部火災) 中央制御室に二酸化炭素消火器を設置するとともに、常駐する運転員によって火災感知器による早期の火災感知を可能とし、火災が発生した場合の運転員の対応を社内規程に定め、運転員による速やかな消火を行うことで運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>また、中央制御室床下に火災感知器及び自動消火設備である局所ガス消火設備を設置することにより、火災が発生した場合に速やかな消火を行うことで運転操作に影響を与えず容易に操作ができる設計とする。</p> | <p>中央制御室で想定される環境条件とその措置は次のとおり。</p> <p>(地震) 中央制御室及び中央制御盤は、耐震性を有する原子炉補助建屋内に設置し、基準地震動による地震力に対し必要となる機能が喪失しない設計とする。また、中央制御室内に設置する制御盤等は床等に固定することにより、地震発生時においても運転操作に影響を与えない設計とする。さらに、運転員机、中央制御盤に手摺を設置するとともに天井照明設備には落下防止措置を講じることにより、地震発生時における運転員の安全確保及び主盤上の操作器への誤接触を防止できる設計とする。 【説明資料（2.1：P10条-15~16）（2.3：P10条-18~26）（2.4(1)：P10条-27~32）】</p> <p>(内部火災) 中央制御室に二酸化炭素消火器及び粉末消火器を設置するとともに、常駐する運転員によって火災感知器及び火災報知設備による早期の火災感知を可能とし、火災が発生した場合の運転員の対応を社内規程類に定め、運転員による速やかな消火を行うことで運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>また、中央制御室床下フロアケーブルダクト内に火災感知器及び自動消火設備であるイナートガス消火設備を設置することにより、火災が発生した場合に速やかな消火を行うことで運転操作に影響を与えず容易に操作ができる設計とする。</p> | <p>【大飯】 記載箇所の相違 ・本項は中央制御室の設備構成を記載する箇所である。大飯の記載は現場操作に関するもので、泊は現場操作に係る記載は「(適合性説明)第2項について」に記載している。 【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 名称の相違 ・制御盤、主制御盤⇔中央制御盤、主盤 ・制御建屋⇒原子炉補助建屋 【大飯】 記載表現の相違 ・女川実績の反映 【女川】 設備の相違 ・手摺の設置箇所</p> <p>【女川】 運用の相違 ・消火器の種類 【女川】 記載表現の相違 ・泊は「適合のための設計方針 第2項について」と整合。 【大飯】 記載表現の相違 ・女川実績の反映 【大飯】 記載内容の相違 ・女川実績反映：床下ケーブル</p> |

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第10条 誤操作の防止

| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|---|--|--|--|
| <p>また、中央制御室盤内に固定式のエアロゾル消火設備を設置するとともに、火災が発生した場合には高感度煙感知器により火災を感知し、固定式のエアロゾル消火設備により消火を行うことを規定類に定めることで速やかな消火を可能とし、容易に操作することができる設計とする。</p> <p>【説明資料 (2.1:P2-10-15,16) (2.4.3:P2-10-30~34)】</p> <p>(内部溢水) 中央制御室周りには、地震時に溢水源となる機器を設けない設計とする。なお、中央制御室周りの消火作業については、中央制御室に影響を与えない消火方法とすることにより、溢水による影響を与えず、中央制御室にて容易に操作することができる設計とする。</p> <p>【説明資料 (2.4.3:P2-10-30~34)】</p> <p>(外部電源喪失) 運転操作に必要な照明は、地震、竜巻・風（台風）、積雪、落雷、外部火災及び降下火砕物に伴い外部電源が喪失した場合には、ディーゼル発電機が起動することにより操作に必要な照明用電源を確保し、容易に操作できるものとする。</p> <p>また、全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が交流動力電源設備から開始されるまでの間においても、蓄電池内蔵の照明設備により運転操作に必要な照明用電源を確保し、容易に操作できるものとする。</p> <p>【説明資料 (2.4.1:P2-10-28,29) (2.4.3:P2-10-30~34)】</p> | <p>【審査資料 (2.3(1):10条-16~22)】</p> <p>(内部溢水) 中央制御室内には溢水源となる機器を設けない設計とする。また、火災が発生したとしても、運転員が火災状況を確認し、二酸化炭素消火器にて初期消火を行うため、溢水源とならないことから、消火水による溢水により運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>【審査資料 (2.3(1):10条-16~22)】</p> <p>(外部電源喪失) 中央制御室における運転操作に必要な照明は、地震、竜巻、風（台風）、積雪、落雷、外部火災及び降下火砕物に伴い外部電源が喪失した場合には、非常用ディーゼル発電機が起動することにより、操作に必要な照明用電源を確保し、運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>また、直流照明兼非常用照明により中央制御室における運転操作に必要な照明を確保し、容易に操作ができる設計とする。</p> <p>【審査資料 (2.3(1):10条-16~22)】</p> | <p>また、中央制御室内で火災が発生した場合には、盤内の煙検出装置により火災を感知し、常駐する運転員が二酸化炭素消火器による消火を行うことを社内規程類に定めることで速やかな消火を可能とし、容易に操作ができる設計とする。</p> <p>【説明資料 (2.1:P10条-15~16) (2.3:P10条-18~26) (2.4(1):P10条-27~32)】</p> <p>(内部溢水) 中央制御室には溢水源となる機器を設けない設計とする。また、火災が発生したとしても、運転員が火災状況を確認し、二酸化炭素消火器又は粉末消火器にて初期消火を行うことで、消火水による溢水により運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>【説明資料 (2.3:P10条-18~26) (2.4(1):P10条-27~32)】</p> <p>(外部電源喪失) 中央制御室における運転操作に必要な照明は、地震、竜巻、風（台風）、積雪、落雷、外部火災及び降下火砕物に伴い外部電源が喪失した場合には、ディーゼル発電機が起動することにより、操作に必要な照明用電源を確保し、容易に操作ができる設計とする。</p> <p>全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が代替非常用発電機から開始されるまでの間においても操作できるように、無停電運転保安灯及び可搬型照明を設置することにより、容易に操作ができる設計とする。</p> <p>【説明資料 (2.3:P10条-18~26) (2.4(1):P10条-27~32)】</p> | <p>【女川】 記載表現の相違 【女川】 名称の相違 ・局所ガス消火設備 ⇄イナートガス消火設備 【女川】 記載充実（大飯参照） 【大飯】 記載表現の相違 ・女川実績の反映 【大飯】 設備の相違①:盤内火災の対応</p> <p>【大飯】 記載表現の相違 ・女川実績の反映 【女川】 運用の相違 ・消火器の種類 【女川】 記載表現の相違 ・泊は「適合のための設計方針 第2項について」と整合。</p> <p>【大飯】 記載表現の相違 ・女川実績の反映 【女川】 名称の相違 ・非常用ディーゼル発電機⇄ディーゼル発電機 【女川】 記載表現の相違 ・泊は「適合のための設計方針 第2項について」と整合。 【大飯】 名称の相違 ・交流動力電源設備</p> |

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|---|---|--|--|
| <p>(ばい煙等による中央制御室内環境の悪化)</p> <p>中央制御室外の火災により発生するばい煙や有毒ガス及び降下火砕物による中央制御室内の操作環境の悪化を想定しても、中央制御室空調装置の外気取入を手動で遮断し、閉回路循環方式に切り替えることにより、運転操作に影響を与えず容易に操作できる設計とする。</p> <p>【説明資料 (2.4.2:P4-10-30) (2.4.3:P2-10-30~34)】</p> | <p>(ばい煙等による中央制御室内雰囲気悪化)</p> <p>外部火災により発生する燃焼ガス、ばい煙、有毒ガス及び降下火砕物による中央制御室内の操作雰囲気悪化に対しては、中央制御室換気空調系の外気取入ダンパを閉止し、事故時運転モードとすることで外気を遮断することから、運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>【審査資料 (2.3(1):10条-16~22)】</p> <p>(凍結による操作環境への影響)</p> <p>中央制御室の換気空調系により環境温度が維持されることで、運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>【審査資料 (2.3(1):10条-16~22)】</p> | <p>(ばい煙等による操作雰囲気悪化)</p> <p>外部火災により発生する燃焼ガス、ばい煙、有毒ガス及び降下火砕物による中央制御室内の操作雰囲気悪化に対しては、中央制御室空調装置の外気取入ダンパを閉止し、閉回路循環運転とすることで外気を遮断することから運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>【説明資料 (2.3:P10条-18~26) (2.4(1):P10条-27~32)】</p> <p>(凍結による操作環境への影響)</p> <p>中央制御室空調装置により環境温度が維持されることで、運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>【説明資料 (2.3:P10条-18~26) (2.4(1):P10条-27~32)】</p> | <p>⇔代替非非常用発電機</p> <p>・蓄電池内蔵の照明設備⇔無停電運転保安灯</p> <p>【女川】 設備の相違</p> <p>・女川は非常用直流電源から給電する直流照明兼非常用照明を設置している。泊は蓄電池内蔵の無停電運転保安灯及び可搬型照明を設置しており、全交流動力電源喪失時の照明を確保する観点で同等。</p> <p>【女川】 記載表現の相違</p> <p>・泊は「適合のための設計方針 第2項について」と整合。</p> <p>【大飯】 記載表現の相違</p> <p>・女川実績の反映</p> <p>【女川】 名称の相違</p> <p>・中央制御室換気空調系⇔中央制御室空調装置</p> <p>・事故時運転モード⇔閉回路循環運転</p> <p>【大飯】 記載内容の相違</p> <p>・女川実績反映:凍結</p> <p>【女川】 名称の相違</p> <p>・中央制御室の換気空調系⇔中央制御室空調装置</p> |

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|---|---|---|---|
| <p>26条の範囲</p> <p>【柏崎刈羽原子力発電所 設置変更許可申請書（6号及び7号炉完本）令和2年5月現在より引用】</p> <p>（有毒ガス） 有毒ガスが運転員に及ぼす影響により、運転員の対処能力が著しく低下することなく、1次冷却系統に係る原子炉施設の損壊又は故障その他の異常が発生した場合、所要の操作及び措置をとることができる設計とする。</p> <p>【大飯発電所 設置変更許可申請書（3号及び4号炉完本）令和3年5月現在より引用】</p> <p>（有毒ガス） 有毒ガスが運転員に及ぼす影響により、運転員の対処能力が著しく低下することなく、1次冷却系統に係る原子炉施設の損壊又は故障その他の異常が発生した場合所要の操作及び措置をとることができる設計とする。</p> <p>なお、原子炉施設の外の状況を把握するため、以下の設備を設置する。</p> <p>a. 監視カメラ 想定される自然現象等（地震、津波、洪水、風（台風）・竜巻通過後の設備周辺における飛散状況、降水、積雪、落雷、地滑り、降下火砕物、火災、飛来物）に加え発電所構内の状況（海側、山側）を昼夜にわたり把握するために屋外に暗視機能等を持った監視カメラを設置する。</p> | <p>26条の範囲（10条まとめ資料にない記載は26条まとめ資料より引用）</p> <p>【女川原子力発電所 設置変更許可申請書（2号炉完本）令和4年8月現在より引用】</p> <p>（有毒ガス） 有毒ガスが運転員に及ぼす影響により、運転員の対処能力が著しく低下することなく、原子炉冷却系統に係る原子炉施設の損壊又は故障その他の異常が発生した場合、所要の操作及び措置をとることができる設計とする。</p> <p>【東海第二発電所 発電用原子炉設置変更許可申請書（令和4年11月25日、発電用原子炉施設の変更）より引用】</p> <p>（有毒ガス） 有毒ガスが運転員に及ぼす影響により、運転員の対処能力が著しく低下することなく、一次冷却系統に係る原子炉施設の損壊又は故障その他の異常が発生した場合、所要の操作及び措置をとることができる設計とする。</p> <p>中央制御室において発電用原子炉施設の外の状況を把握するための設備については、「1.1.1.4 外部からの衝撃による損傷の防止」で選定した発電所敷地で想定される自然現象、発電所敷地又はその周辺において想定される発電用原子炉施設の安全性を損なわせる原因となるおそれがある人によるもの（故意によるものを除く。）のうち、発電用原子炉施設に影響を及ぼす可能性がある事象や発電所構内の状況を把握できるように、以下の設備を設置する。</p> <p>a. 監視カメラ 想定される自然現象等（地震、津波、風（台風）、竜巻、降水、積雪、落雷、火山の影響、生物学的事象、森林火災、飛来物（航空機落下）、近隣工場等の火災及び船舶の衝突）の影響について、昼夜にわたり発電所構内の状況（海側、山側）を把握することができる暗視機能等を持った監視カメラを設置する。</p> | <p>26条の範囲</p> <p>（有毒ガス） 有毒ガスが運転員に及ぼす影響により、運転員の対処能力が著しく低下することなく、1次冷却系統に係る発電用原子炉施設の損壊又は故障その他の異常が発生した場合、所要の操作及び措置をとることができる設計とする。</p> <p>中央制御室において発電用原子炉施設の外の状況を把握するための設備については、「1.1.1.4 外部からの衝撃による損傷の防止」で選定した発電所敷地で想定される自然現象、発電所敷地又はその周辺において想定される発電用原子炉施設の安全性を損なわせる原因となるおそれがある人によるもの（故意によるものを除く。）のうち、発電用原子炉施設に影響を及ぼす可能性がある事象や発電所構内の状況を把握できるように、以下の設備を設置する。</p> <p>a. 監視カメラ 想定される自然現象等（地震、津波、風（台風）、竜巻、降水、積雪、落雷、地滑り、火山の影響、生物学的事象、森林火災、飛来物（航空機落下）、近隣工場等の火災及び船舶の衝突）の影響について、昼夜にわたり発電所構内の状況（海側、山側）を把握することができる暗視機能等を持った監視カメラを設置する。</p> | <p>【大飯、女川】 DB26条に関する記載範囲であり、差異理由等はDB26条比較表を参照</p> <p>【東海第二】 記載表現の相違</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 設計方針の相違 ・泊は立地的要因により地滑りを考慮しているため記載を追記（監視対象とする自然現象の抽出の考え方は大飯、女川と同様）</p> |

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 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止

| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--|--|---|---|
| <p>26条の範囲</p> <p>b. 気象観測設備等 津波、風（台風）、竜巻等による発電所構内の状況の把握に有効なパラメータ（潮位、風向・風速等）を入手するために、気象観測設備等を設置する。</p> <p>c. FAX等 公的機関からの地震、津波、竜巻、雷雨、降雨予報、天気図、台風情報等を入手するために、中央制御室にFAX、テレビ、ラジオ等を設置する。</p> | <p>26条の範囲</p> <p>b. 気象観測設備等の設置 風（台風）、竜巻、凍結、降水等による発電所構内の状況を把握するため、風向、風速、気温、降水量等を測定する気象観測設備を設置する。 また、津波及び高潮については、津波監視設備として取水ビット水位計を設置する。</p> <p>c. 公的機関から気象情報を入手できる設備の設置 地震、津波、竜巻、落雷等の発電用原子炉施設に影響を及ぼす可能性がある事象に関する情報を入手するため、中央制御室に電話、FAX及び社内ネットワークシステムに接続されたパソコン等の公的機関から気象情報を入手できる設備を設置する。</p> | <p>26条の範囲</p> <p>b. 気象観測設備等の設置 風（台風）、竜巻、凍結、降水、積雪、地滑り、森林火災及び近隣工場等の火災による発電所構内の状況を把握するため、風向、風速、気温、降水量等を測定する気象観測設備を設置する。 また、津波襲来時、高潮発生時及び生物学的事象による海面変動を把握するため、津波監視設備として取水ビット水位計及び潮位計を設置する。</p> <p>c. 公的機関から気象情報を入手できる設備の設置 地震、津波、風（台風）、竜巻、凍結、降水、積雪、落雷、地滑り、火山の影響及び高潮で発電用原子炉施設に影響を及ぼす可能性がある事象に関する情報を入手するため、中央制御室に電話、FAX、社内ネットワークシステムに接続されたパソコン等の公的機関から気象情報を入手できる設備を設置する。</p> | <p>【大阪、女川】 DB26条に関する記載範囲であり、差異理由等はDB26条比較表を参照</p> <p>【大阪】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 記載の充実 ・気象観測設備等で把握する自然現象等を明確に記載</p> <p>【女川】 設計方針の相違 ・泊は津波監視設備として取水ビット水位計に加えて、潮位計を設置する設計としている。（取水ビット水位計と潮位計の両方を設置しているのは東海第二と同様）</p> <p>【大阪】 記載表現の相違 ・女川実績の反映 ・泊においても、公的機関からの雷雨、降雨予報、天気図、台風情報等を入手するために中央制御室にテレビ、ラジオを設置していることから、大阪と実質的な相違はない。</p> <p>【女川】 記載の充実 ・公的機関からの気象情報で把握する自然現象を明確に記載</p> <p>【女川】 記載表現の相違</p> |

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第10条 誤操作の防止（別添1）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--|--|---|--|
| <p>2. 誤操作防止並びに操作の容易性</p> <p>2.1 概要</p> <ul style="list-style-type: none"> 大飯3, 4号炉 中央制御盤の特徴 <p>先行プラント及び過去の事故等の教訓から設計され、運転モードを考慮し、主盤・補助盤を分離した構成としている。なお、3号炉及び4号炉の中央制御盤の配置は回転対称としている。</p> <p>主監視計器はハード計器及び計算機で構成し、この両面からも運転員は情報を得ることができる。また、操作器はハードスイッチであり、警報態は重要度に応じた識別をしている。</p> <p>・誤操作防止対策</p> <p>①先行プラント及び過去の事故等の教訓から「監視操作エリア（環境条件）及び設備配置」「中央制御盤の盘面配置」「理解しやすい表示方法」「操作盤の制御機能」等の人間工学的な操作性を考慮した設計をしている。この設計は現場盤等についても同様である。</p> <p>②運転員の誤操作等による運転時の異常な過渡変化時には、警報により運転員が措置し得るようにするとともに、これらの修正動作が取られない場合にも、原子炉の固有の安全性並びに安全保護系の動作により、重大な事故に発展することがないようにしている。</p> <p>なお、運転時の異常な過渡変化又は設計基準事故の発生後、一定時間の運転操作がなくとも必要な安全機能を確保することとしている。</p> <p>・操作の容易性に関する対策</p> <p>上記の誤操作防止に加え中央制御室は、原子炉補助建屋（耐震クラス）に設置され、放射線防護措置（遮蔽及び換気空調）、火災防護措置（消火設備の設置等）を講じており、運転員が適切に運転できるよう、照明、放射線等に対して適切な監視操作環境を実現している。</p> <p>①地震発生時の対応として「運転員は地震が発生した場合、制御盤の手摺にて安全の確保及び制御盤上の操作器への誤接触の防止を図り、警報発信状況等の把握に努める」ことを周知している。</p> <p>②中央制御室にて火災が発生した場合は「運転員が火災状況を確認し、消火器にて初期消火を行う」ことを規定類に定めている。また、中央制御室盤内に固定式のエアゾル消火設備を設置するとともに、火災が発生した場合に「高感度煙感知器により火災を感知し、固定式のエアゾル消火設備により消火を行う」ことを規定類に定</p> | <p>2. 追加要求事項に対する適合方針</p> <p>比較のため、2.4.1項より抜粋して再掲</p> <p>運転員の誤操作等による異常状態が発生した場合は、設備異常を示す警報を発することにより運転員が措置し得る設計としている。もし、運転員によるこれらの修正動作が取られない場合にも、発電用原子炉固有の安全性及び安全保護回路の動作により、過渡変化を収束させる設計としている。</p> | <p>2. 追加要求事項に対する適合方針</p> <p>2.1 概要</p> <ul style="list-style-type: none"> 泊3号炉 中央制御盤の特徴 <p>泊発電所3号炉における中央制御盤は、運転員の負担軽減を目的として、以下の設計とすることで監視性及び操作性の向上を図っている。</p> <ul style="list-style-type: none"> 監視及び操作の機能を集中したコンパクトコンソールの適用 運転員の情報共有等を目的とした大型表示盤の適用 監視及び操作の集約化を図ったタッチオペレーションの適用  <p>図 2.1.1 泊3号炉中央制御盤イメージ図</p> <p>・誤操作防止対策</p> <p>先行プラント及び過去の事故等の教訓から「監視操作エリア（環境条件）及び設備配置」「中央制御盤の盘面配置」「理解しやすい表示方法」「操作盤の制御機能」等の人間工学的な操作性を考慮した設計をしている。この設計は現場盤等についても同様である。</p> <p>運転員の誤操作等による異常状態が発生した場合は、設備異常を示す警報を発することにより運転員が措置し得る設計としている。もし、運転員によるこれらの修正動作が取られない場合にも、発電用原子炉固有の安全性及び安全保護回路の動作により、過渡変化を収束させる設計としている。</p> <p>また、運転時の異常な過渡変化又は設計基準事故の発生後、一定時間の運転操作がなくとも必要な安全機能を確保することとしている。</p> <p>・操作の容易性に関する対策</p> <p>上記の誤操作防止に加え中央制御室は、耐震性を有する原子炉補助建屋に設置され、放射線防護措置（遮蔽及び換気空調）、火災防護措置（消火設備の設置等）を講じており、運転員が適切に運転できるよう、照明、放射線等に対して適切な監視操作環境を実現している。</p> <p>①地震発生時の対応として「運転員は地震の揺れを感じた場合、操作を中止し運転員機又は中央制御盤の手摺にて安全の確保に努めるとともに、主盤上の操作器への誤接触の防止を図り、警報発信状況等の把握に努める」ことを社内規程類（運転要領）に定める。</p> <p>②中央制御室にて火災が発生した場合は「運転員が火災状況を確認し、消火器にて初期消火を行う」ことを社内規程類に定めている。また、中央制御盤内で火災が発生した場合に「盤内の煙検出装置により火災を感知し、常駐する運転員が二酸化炭素消火器による消火を行う」ことを社内規程類に定めることで速やかな消火が可能な設</p> | <p>【大飯】</p> <p>項目名称の相違</p> <ul style="list-style-type: none"> 女川実績の反映 <p>【大飯、女川】</p> <p>設備の相違②</p> <ul style="list-style-type: none"> 泊は監視・操作の機能を集約したコンパクトコンソールを採用しており設備構成が異なるが、誤操作を防止する設計という点で同等である。（以下、同様の差異理由箇所には「設備の相違②」と記載） <p>【女川】</p> <p>記載充実（大飯参照）</p> <p>【大飯】</p> <p>記載表現の相違</p> <ul style="list-style-type: none"> 女川実績の反映 <p>【大飯】</p> <p>記載表現の相違</p> <p>【女川】</p> <p>記載充実（大飯参照）</p> <p>【大飯】</p> <p>記載表現の相違</p> <ul style="list-style-type: none"> 女川実績の反映 <p>【大飯】</p> <p>記載表現の相違</p> <ul style="list-style-type: none"> 制御盤⇔主盤 規定類⇔社内規程類 <p>【大飯】</p> <p>記載表現の相違</p> <ul style="list-style-type: none"> 社内規程に記載する内容の相違 |

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第10条 誤操作の防止（別添1）

| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|---|-------------|--|--|
| <p>めることで速やかな消火が可能な設計とする。</p> <p>上記のことから、地震及び火災等の環境条件を想定しても、運転員は容易に操作することができる。</p> <p>・誤操作防止及び操作の容易性に関する優先順位の考え方について 誤操作防止対策を行うことにより、操作の容易性を阻害する可能性があるが、誤操作によりプラントに与える影響の大きさを考慮すると中央制御室及び現場での操作については、誤操作防止対策を優先とする。</p> | | <p>計とする。</p> <p>上記のことから、地震、火災等の環境条件を想定しても、運転員は容易に操作することができる。</p> <p>・誤操作防止及び操作の容易性に関する優先順位の考え方について 誤操作防止対策を行うことにより、操作の容易性を阻害する可能性があるが、誤操作によりプラントに与える影響の大きさを考慮すると中央制御室及び現場での操作については、誤操作防止対策を優先とする。</p> | <p>【大飯】 設備の相違①:盤内火災の対応 【大飯】 記載表現の相違</p> |

赤字：設備、運用又は体制の相違（設計方針の相違）
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 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添1）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|---|---|--|---|
| <p>比較のため、2.6.1項から抜粋して記載箇所入替</p> <p>2.6.1 設計基準事象において求められる現場操作 運転中の異常な過渡変化及び設計基準事故等発生時に必要な現場操作及び操作対象設備の設置場所を以下のとおり抽出した。</p> <p>比較のため、2.6.1項から抜粋して再掲</p> <p>a. 蒸気発生器伝熱管破損時における伝熱管破損側蒸気発生器の主蒸気隔離弁増し締め操作</p> <p>b. 全交流動力電源喪失時における2次系強制冷却のための主蒸気逃がし弁操作、空冷式非常発電装置からの給電操作及びディーゼル発電機復旧操作</p> <p>c. 火災その他の異常な状態により、中央制御室が使用できない場合における中央制御室外原子炉停止盤による対応操作</p> | <p>2.1 現場操作が必要となる操作の抽出</p> <p>安全施設のうち、中央制御室での操作のみならず、中央制御室以外の設計基準対象施設の現場操作を抽出し、現場操作場所を特定する。具体的には、運転時の異常な過渡変化及び設計基準事故時に必要な操作（事象発生から冷温停止まで）のうち、事象の拡大防止、あるいは、事象を収束させるために必要な操作を抽出する。また、新規制基準適合性に係る審査において必要な現場操作についても、安全施設が安全機能を損なわないために必要な操作を抽出する。</p> <p>抽出結果は以下のとおり。</p> <p>(1) 中央制御室における操作</p> <p>(2) 現場における操作</p> <ul style="list-style-type: none"> ・ 残留熱除去系原子炉停止時冷却モード吸込ラインの開操作 ・ 原子炉保護系電源「断」操作 ・ 内部溢水想定破損時の系統切替操作 <p>・ 全交流動力電源喪失時の現場操作</p> <p>・ 中央制御室外原子炉停止操作</p> <p>・ 中央制御室外気取入ダンパの開操作</p> <p>詳細な抽出の考え方、抽出結果、安全施設の設置場所及び当該場所までのアクセスルートを別紙2に示す。</p> | <p>2.2 現場操作が必要となる操作の抽出</p> <p>安全施設のうち、中央制御室での操作のみならず、中央制御室以外の設計基準対象施設の現場操作を抽出し、現場操作場所を特定する。具体的には、運転時の異常な過渡変化及び設計基準事故時に必要な操作（事象発生から冷温停止まで）のうち、事象の拡大防止、あるいは、事象を収束させるために必要な操作を抽出する。また、新規制基準適合性に係る審査において必要な現場操作についても、安全施設が安全機能を損なわないために必要な操作を抽出する。</p> <p>抽出結果は以下のとおり。</p> <p>(1) 中央制御室における操作</p> <p>(2) 現場における操作</p> <ul style="list-style-type: none"> ・ 蒸気発生器伝熱管破損時における主蒸気隔離弁増し締め操作 ・ 全交流動力電源喪失時の現場操作 ・ 中央制御室外原子炉停止盤操作 <p>詳細な抽出の考え方、抽出結果、安全施設の設置場所及び当該場所までのアクセスルートを別紙2に示す。</p> | <p>【大飯】 資料構成の相違 ・ 女川実績の反映 以降同様の比較は省略する。</p> <p>【大飯】 記載表現の相違 ・ 女川実績の反映</p> <p>【女川】 操作の相違 ・ 抽出された現場操作は女川と泊で異なる。</p> <p>【大飯】 記載表現の相違 ・ 女川実績の反映</p> <p>【女川】 記載表現の相違 ・ 「盤」の有無</p> <p>【大飯】 記載内容の相違 ・ 女川実績の反映</p> |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添1）

| 大阪発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--|---|--|--|
| <p>比較のため、2.4.3.1項から抜粋して記載箇所入替 想定される自然災害（地震、津波、竜巻等）と火災及び溢水について、中央制御室での操作に影響を与える事象を抽出し、対応について整理した。</p> <p>中央制御室の主な対応（対応状況一覧は表1参照）</p> <p>比較のため、2.6.2項から抜粋して記載箇所入替 想定される自然災害（地震、津波、竜巻等）と火災及び溢水について、現場での操作に影響を与える事象を抽出し、対応について整理した。</p> <p>比較のため、2.6.2項から抜粋して再掲</p> <p>a. 蒸気発生器伝熱管破損時の主蒸気隔離弁操作（対応状況一覧は表1参照） b. 全交流動力電源喪失時の主蒸気逃がし弁操作、空冷式非常用発電装置給電操作及びディーゼル発電機復旧操作（対応状況一覧は表2参照） c. 中央制御室外原子炉停止盤操作（対応状況一覧は表3参照）</p> | <p>2.2 環境条件の抽出 前節で抽出した現場操作が必要となる起回事象及び起回事象と同時にもたらされる環境条件について、抽出する。 現場操作が必要となる起回事象として、地震、津波、設置許可基準規則第6条に示す設計基準事象、内部火災、内部溢水、運転時の異常な過渡変化、設計基準事故を想定する。 これらの起回事象と同時にもたらされる環境条件について、中央制御室における環境条件を第2.2-1表に、中央制御室外の場所における環境条件を第2.2-2表に示す。</p> | <p>2.3 環境条件の抽出 前節で抽出した現場操作が必要となる起回事象及び起回事象と同時にもたらされる環境条件について、抽出する。 現場操作が必要となる起回事象として、地震、津波、設置許可基準規則第6条に示す設計基準事象、内部火災、内部溢水、運転時の異常な過渡変化、設計基準事故を想定する。 これらの起回事象と同時にもたらされる環境条件について、中央制御室における環境条件を表2.3.1に示す。中央制御室外の場所における環境条件を表2.3.2～表2.3.4に示す。</p> <p>・蒸気発生器伝熱管破損時における主蒸気隔離弁増し締め操作（対応状況一覧は表2.3.2参照） ・全交流動力電源喪失時の現場操作（対応状況一覧は表2.3.3参照）</p> <p>・中央制御室外原子炉停止盤操作（対応状況一覧は表2.3.4参照）</p> | <p>【大阪】 記載表現の相違 ・女川実績の反映</p> <p>【大阪、女川】 資料名の相違</p> <p>【女川】 記載充実（大阪参照）</p> <p>【大阪】 記載表現の相違</p> |

泊発電所3号炉 DB基準適合性 比較表

赤字：設備、運用又は体制の相違（設計方針の相違）
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 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添1）

大阪発電所3/4号炉

比較のため、2.4.3.1項から抜粋して記載箇所入替

表1 中央制御室における環境条件への対応

| 起回事象 | 同時にもたらされる中央制御室の環境条件 | 中央制御室での操作性（操作容易性）に与える影響 |
|------------------|-------------------------------------|--|
| 内部火災 | 火災に伴う炎、煙の発生及び温度上昇による中央制御室内設備操作性への影響 | 中央制御室は、耐震を考慮して設計していることから、地震が発生した場合でも火災が発生することはない。また、夜に、中央制御室にて火災が発生しても「運転員が火災状況を確認し、消火器にて初期消火を行う」ことを規定額に定めている。中央制御室には固定式のエアロゾル消火設備を設置するとともに、火災が発生した場合に「高感度煙感知器により火災を感知し、固定式のエアロゾル消火設備により消火を行う」ことを規定額に定めているため、中央制御室の機能は維持される。 |
| 地震 | 内部溢水 内部溢水 余震 | 中央制御室は溢水がないことを確認しているが、火災のための消火栓による溢水については、内部溢水で評価を実施し、問題ないことを確認している。 地震発生時の対応として「運転員は地震が発生した場合、運転員が、制御盤の手操作による安全の確認及び制御盤上の操作等への誤接触の防止を図る」ことを規定額に定めている。 |
| 電巻・台風（巻風雷） 落雷 | 外部電源喪失による照明等の所内電圧の喪失 | 外部電源喪失時においても、中央制御室の照明はディーゼル発電機から給電される。また、蓄電池を内蔵した照明及び可搬型照明を備えており、全交流動力電源喪失時に重大事故等に対処するために必要な電力の供給が交流動力電源設備から開始されるまでの間においても照明は確保される。 |
| 外部火災 | ばい煙等の発生による中央制御室空調設備への影響 | 外部火災の影響評価及び火山の影響評価により原子炉補助建屋内部に影響はないことを確認している。なお、中央制御室の空調を手動で閉回路循環運転へ切り替えることで外気を遮断できる。 |
| 火山 | 降下火砕物による中央制御室空調設備への影響 | |

女川原子力発電所2号炉

第2.2-1 表 中央制御室に同時にもたらされる環境条件への対応（1/2）

| 起回事象 | 同時にもたらされる中央制御室の環境条件 | 中央制御室での操作性（操作容易性）を確保するための対応 |
|--------------|--|--|
| 内部火災（地震起因含む） | 火災に伴う炎、煙の発生及び温度上昇による中央制御室内設備操作性への影響 | 中央制御室は、常駐する運転員によって火災感知器による早期の火災感知及び二酸化炭素消火器による消火活動が可能であり、中央制御室床下に、火災感知器及び自動消火設備である局所ガス消火設備を設置することにより、中央制御室の機能を維持する。（詳細については、設置許可基準規則第8条「火災による損傷の防止」に関する適合状況説明資料を参照） |
| 内部溢水（地震起因含む） | 溢水に伴う水位、温度、重量上昇、化学薬品、照明喪失、感電、濡れ物による中央制御室内設備操作性への影響 | 中央制御室には溢水がない設計とする。火災が発生したとしても、「運転員が火災状況を確認し、二酸化炭素消火器にて初期消火を行う」ことを事前に定めることとし、消火による溢水の影響がない設計とする。蒸気配管破断が発生した場合も、漏えいした蒸気の影響がない設計とする。（詳細については、設置許可基準規則第9条「溢水による損傷の防止等」に関する適合状況説明資料を参照） |
| 地震 | 余震による中央制御室内設備操作性への影響 | 運転員は地震が発生した場合、運転員に配備しているヘルメットを速やかに装着し、安全を確保するとともに警報発生状況等の把握に努める。また、その後の操作対応時において余震が発生した場合においても制御盤の手操作により安全を確保するとともに、操作器への誤接触を防止する。 |
| 電巻 | 外部電源喪失による照明等の所内電圧の喪失 | 外部電源喪失においても、中央制御室の照明は、非常用ディーゼル発電機から給電され、蓄電池からの給電により点灯する照明も備え、機能が喪失しない設計とする。（詳細については、設置許可基準規則第11条「安全遮断回路等」に関する適合状況説明資料を参照）※ 非常用ディーゼル発電機は各自然現象に対して健全性が確保される設計とする。 |
| 風（台風） | 積雪 | 積雪：設計基準地震動に対して、耐震5クラス設計とする。 積雪：設計基準の積雪量による地盤沈下に対して、外殻による防護で健全性を確保する。 |
| 積雪 | 積雪 | 積雪：設計基準の積雪量による地盤沈下に対して、外殻による防護で健全性を確保する。 |
| 落雷 | 外部電源喪失による照明等の所内電圧の喪失 | 落雷：設計基準の雷害電流値に対して、避雷針や保安器等による防護で健全性を確保する。 |
| 外部火災 | 外部火災 | 外部火災：防火帯の内側に設置することにより延焼を防止し、熱影響に対して健全性を確保する。また、ばい煙に対してはフィルタにより健全性を確保する。 |
| 火山の影響 | 火山の影響 | 火山の影響：設計基準の火山灰の堆積荷重に対して、外殻による防護で健全性を確保する。また、給気系はフィルタ交換等により積塵耐性健全性を確保する。 |
| 降水（豪雨（降雨）） | 降水（豪雨（降雨）） | 降水（豪雨（降雨））：構内排水路等による排水による防護で健全性を確保する。 |
| 生物学的事象 | 生物学的事象 | 生物学的事象：原子炉補機冷却海水設備等に影響を与える微生物等をトラッピングスクリーン等で除去することにより健全性を確保する。 |

第2.2-1 表 中央制御室に同時にもたらされる環境条件への対応（2/2）

| 起回事象 | 同時にもたらされる中央制御室の環境条件 | 中央制御室での操作性（操作容易性）を確保するための対応 |
|------------|----------------------------|---|
| 外部火災（森林火災） | ばい煙や有毒ガスの発生による中央制御室内環境への影響 | 中央制御室換気空調系を外気取入ダンプを閉止し、事故時運転モードとすることで外気を遮断することから、中央制御室内環境への影響はない。（詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（外部火災）」、設置許可基準規則第6条「外部からの衝撃による損傷の防止（火山の影響）」、設置許可基準規則第6条「外部からの衝撃による損傷の防止（近隣工場等の火災）」に関する適合状況説明資料を参照） |
| 火山の影響 | 降下火砕物による中央制御室内環境への影響 | 降下火砕物による中央制御室内環境への影響 |
| 凍結 | 凍結による中央制御室内環境への影響 | 中央制御室の換気空調系により室温が維持されるため、中央制御室内環境への影響はない。（詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（凍結）」に関する適合状況説明資料を参照） |
| 電磁的障害* | サージ・ノイズによる制御回路への影響 | 制御回路を構成する制御盤及びケーブルは、鋼製筐体や金属シールドケーブルの適用により電磁波の侵入を防止する設計としており、中央制御室内環境への影響はない。（詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（電磁的障害）」に関する適合状況説明資料を参照） |

* 電磁的障害による影響は、指示・制御機能への影響となるため、操作性に直接影響を与えるものではない。

泊発電所3号炉

表2.3.1 中央制御室における環境条件への対応（1/2）

| 起回事象 | 同時にもたらされる中央制御室の環境条件 | 中央制御室での操作性（操作容易性）を確保するための対応 |
|--------------|--|--|
| 内部火災（地震起因含む） | 火災に伴う炎、煙の発生及び温度上昇による中央制御室内設備操作性への影響 | 中央制御室は、常駐する運転員によって火災感知器による早期の火災感知、若しくは二酸化炭素消火器又は粉末消火器による消火活動が可能であり、中央制御室床下のフロアケーブルダンプには、火災感知器及び自動消火設備であるエアロゾル消火設備を設置することにより、中央制御室の機能を維持する。また、中央制御室内で火災が発生した場合に、室内の積塵出装置により火災を感知し、常駐する運転員が二酸化炭素消火器による消火を行うことで中央制御室の機能を維持する。（詳細については、設置許可基準規則第8条「火災による損傷の防止」に関する適合状況説明資料を参照） |
| 内部溢水（地震起因含む） | 溢水に伴う水位、温度、重量上昇、化学薬品、照明喪失、感電、濡れ物による中央制御室内設備操作性への影響 | 中央制御室には溢水がない設計とする。火災が発生したとしても、「運転員が火災状況を確認し、二酸化炭素消火器又は粉末消火器にて初期消火を行う」ことを社内規程に定めるとともに、消火による溢水の影響がない設計とする。蒸気配管破断が発生した場合も、漏えいした蒸気の影響がない設計とする。（詳細については、設置許可基準規則第9条「溢水による損傷の防止等」に関する適合状況説明資料を参照） |
| 地震 | 余震による中央制御室内設備操作性への影響 | 「運転員は地震の揺れを感じた場合、操作を中止し運転員又は中央制御室の手操作による安全を確保するとともに、手置上の操作器への誤接触の防止を図る」、警報発生状況等の把握に努める。ことと社内規程（運転要領）に定める。なお、地震発生時の確保として以下の項目を社内規程（運転要領）に記載している。 ・体感等による揺れ ・原子炉トリップ（シャットダウン）警報発生 ・地震加速度による原子炉トリップ ・地震による2次の警報発生 |
| 電巻 | 外部電源喪失による照明等の所内電圧の喪失 | 外部電源喪失においても、中央制御室の照明は、ディーゼル発電機から給電され、機能が喪失しない設計とする。また、非常用電源保安及び可搬型照明を備えており、全交流動力電源喪失時に重大事故等に対処するために必要な電力の供給が非常用電源設備から開始されるまでの間においても照明は確保される。（詳細については、設置許可基準規則第11条「安全遮断回路等」に関する適合状況説明資料を参照）※ ディーゼル発電機は各自然現象に対して健全性が確保される設計とする。 |
| 風（台風） | 積雪 | 積雪：設計基準の積雪量による地盤沈下に対して、外殻による防護で健全性を確保する。 |
| 積雪 | 積雪 | 積雪：設計基準の積雪量による地盤沈下に対して、外殻による防護で健全性を確保する。 |
| 落雷 | 外部電源喪失による照明等の所内電圧の喪失 | 落雷：設計基準の雷害電流値に対して、避雷針や避雷器等による防護で健全性を確保する。 |
| 外部火災 | 外部火災 | 外部火災：防火帯の内側に設置することにより延焼を防止し、熱影響に対して健全性を確保する。また、ばい煙に対してはフィルタにより健全性を確保する。 |
| 火山の影響 | 火山の影響 | 火山の影響：設計基準の火山灰の堆積荷重に対して、外殻による防護で健全性を確保する。また、給気系はフィルタ交換等により積塵耐性健全性を確保する。 |
| 降水（豪雨（降雨）） | 降水（豪雨（降雨）） | 降水（豪雨（降雨））：構内排水路等による排水による防護で健全性を確保する。 |
| 生物学的事象 | 生物学的事象 | 生物学的事象：原子炉補機冷却海水設備等に影響を与える微生物等をトラッピングスクリーン等で除去することにより健全性を確保する。 |

表2.3.1 中央制御室における環境条件への対応（2/2）

| 起回事象 | 同時にもたらされる中央制御室の環境条件 | 中央制御室での操作性（操作容易性）を確保するための対応 |
|------------|----------------------------|---|
| （前頁から続き） | （前頁から続き） | 外部火災：防火帯の内側に設置することにより延焼を防止し、熱影響に対して健全性を確保する。また、ばい煙に対してはフィルタにより健全性を確保する。 火山の影響：設計基準の火山灰の堆積荷重に対して、外殻による防護で健全性を確保する。また、給気系はフィルタ交換等により積塵耐性健全性を確保する。 降水（豪雨（降雨））：構内排水設備による排水による防護で健全性を確保する。 生物学的事象：原子炉補機冷却海水設備等に影響を与える微生物等をトラッピングスクリーン等で除去することにより健全性を確保する。 |
| 外部火災（森林火災） | ばい煙や有毒ガスの発生による中央制御室内環境への影響 | 中央制御室換気空調系を外気取入ダンプを閉止し、閉回路循環運転とすることで外気を遮断することから、中央制御室内環境への影響はない。（詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（外部火災）」、設置許可基準規則第6条「外部からの衝撃による損傷の防止（火山の影響）」、設置許可基準規則第6条「外部からの衝撃による損傷の防止（近隣工場等の火災）」に関する適合状況説明資料を参照） |
| 火山の影響 | 降下火砕物による中央制御室内環境への影響 | 降下火砕物による中央制御室内環境への影響 |
| 凍結 | 凍結による中央制御室内環境への影響 | 中央制御室空調装置により室温が維持されるため、中央制御室内環境への影響はない。（詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（凍結）」に関する適合状況説明資料を参照） |
| 電磁的障害* | サージ・ノイズによる制御回路への影響 | 制御回路を構成する制御盤及びケーブルは、鋼製筐体や金属シールドケーブルの適用により電磁波の侵入を防止する設計としており、中央制御室内環境への影響はない。（詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（電磁的障害）」に関する適合状況説明資料を参照） |

* 電磁的障害による影響は、指示・制御機能への影響となるため、操作性に直接影響を与えるものではない。

相違理由

- 【大阪】
記載表現の相違
・女川実績の反映
- 【大阪】
記載内容の相違
・女川実績反映：床下テーブル
- 【大阪】
設備の相違①：盤内火災の対応
- 【大阪、女川】
記載表現の相違
・地震、余震時の対応について社内規程の内容を詳細に記載した。
- 【女川】
運用の相違
・泊では、設備への誤接触防止の観点からヘルメットを中央制御室内には持ち込まず、近接する通路部に保管している。
- 【大阪】
設備の相違
・手摺の設置箇所
- 【大阪】
記載内容の相違
・女川実績の反映：起回事象に降水、生物学的事象を追加
- 【大阪】
記載内容の相違
・女川実績反映：凍結
- 【大阪】
記載内容の相違
・女川実績の反映：起回事象に電磁的障害を追加

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添1）

| 大飯発電所3/4号炉 | | |
|--------------------------|----------------------|--|
| 比較のため、2.6.2項から抜粋して記載箇所入替 | | |
| 表1 主蒸気・主給水管室における環境条件への対応 | | |
| 起回事象 | 同時にもたらされる現場の環境条件 | 現場での操作性（操作容易性）に与える影響 |
| 地震 | 内部火災 | 現場（主蒸気・主給水管室）は、耐震を考慮した設計であり、また、注内包機器も設置していないことから地震が発生した場合でも、火災が発生することはない。 |
| | 内部溢水 | アクセスルートのアクセス性評価により、当該区画内での操作に関するアクセス性が問題ないことを確認している。 |
| | 余震 | 地震発生時の対応として「運転員は地震が発生した場合、操作を中止し安全確保に努める」ことを規定類に定めている。 |
| | 外部電源喪失による照明等の所内電源の喪失 | 外部電源喪失時においても、現場（主蒸気・主給水管室）の照明は、蓄電池を内蔵した照明又は可換型照明により確保される。 |
| 竜巻・台風（積雪） （暴風雪） 落雷 | 外部電源喪失による照明等の所内電源の喪失 | |
| 外部火災 | ばい煙等の発生による建屋内換気の悪化 | 外部火災の影響評価により、原子炉周辺建屋内に換気の影響はないことを確認している。 |
| | 降下火砕物による建屋換気の悪化 | 火山の影響評価により、降下火砕物による原子炉周辺建屋内の環境への影響はないことを確認している。外気取り入れ箇所にはフィルタを設置しており、降下火砕物の建屋内への進入を防止している。 |

| 女川原子力発電所2号炉 | | |
|--|---|---|
| 第2.2-2表 中央制御室以外に同時にもたらされる環境条件への対応（1/2） | | |
| 起回事象 | 同時にもたらされる中央制御室以外 ^{※1} での操作性（操作容易性）を確保するための対応 | 中央制御室以外 ^{※1} での操作性（操作容易性）を確保するための対応 |
| 内部火災（地震起因含む） | 火災に伴う炎、煙の発生及び温度上昇による現場設備操作性への影響 | 「残留熱除去系原子炉停止時冷却モード送込ラインの開操作」及び「中央制御室外気取入ダンパの開操作」については、現場操作が要求されるまで時間的余裕があり、消火により炎、煙が取りま、室内温度が低下し、消火に伴うガス消火剤を排気してから現場へ立ち入ること。また、「原子炉保護系電源「断」操作」及び「中央制御室外原子炉停止操作」については、火災発生場所と操作場所との位置的分散を図ることにより、内部火災に伴う現場操作への影響はない。 （詳細については、設置許可基準規則第8条「火災による損傷の防止」に関する適合状況説明資料を参照） |
| 内部溢水（地震起因含む） | 溢水に伴う水位、温度、流量上昇、化学薬品、照明喪失、感電、漂流物による現場設備操作性への影響 | アクセスルートにおける溢水水位を歩行に支障のない水位に抑える等により、溢水に伴う現場操作への影響はない。 （詳細については、設置許可基準規則第9条「溢水による損傷の防止等」に関する適合状況説明資料を参照） |
| 地震 | 余震による現場設備操作性への影響 | 運転員は地震が発生した場合、操作を中止し安全確保に努める。 |
| 竜巻 | | |
| 風（台風） | | |
| 積雪 | | |
| 落雷 | 外部電源喪失による照明等の所内電源の喪失 | |
| 外部火災 | 外部火災の影響 | 外部火災の影響評価により、ばい煙や有毒ガスの発生による建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（外部火災）」、設置許可基準規則第6条「外部からの衝撃による損傷の防止（火山の影響）」、設置許可基準規則第6条「外部からの衝撃による損傷の防止（近隣工場等の火災）」に関する適合状況説明資料を参照） |
| 火山の影響 | 降下火砕物による建屋内環境への影響 | 降下火砕物による建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（火山の影響）」に関する適合状況説明資料を参照） |
| 凍結 | 凍結による建屋内環境への影響 | 換気空調設備により環境温度が維持されるため、建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（凍結）」に関する適合状況説明資料を参照） |
| 第2.2-2表 中央制御室以外に同時にもたらされる環境条件への対応（2/2） | | |
| 起回事象 | 同時にもたらされる中央制御室以外 ^{※1} での操作性（操作容易性）を確保するための対応 | 中央制御室以外 ^{※1} での操作性（操作容易性）を確保するための対応 |
| 電磁的障害* | サージ・ノイズによる計測制御回路への影響 | 計測制御回路を構成する制御盤及びケーブルは、鋼製筐体や金属シールド付ケーブルの適用により電磁波の侵入を防止する設計としており、建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（電磁的障害）」に関する適合状況説明資料を参照） |

※1 中央制御室以外の現場操作の確認結果は、別添2参照
 * 電磁的障害による影響は、指示・制御機能への影響となるため、操作性に直接影響を与えるものではない。

| 泊発電所3号炉 | | | 相違理由 |
|---------------------------------------|--|--|--|
| 表2.3.2 現場操作場所における環境条件への対応（主蒸気管室）（1/2） | | | |
| 起回事象 | 同時にもたらされる現場の環境条件 | 現場での操作性（操作の容易性）を確保するための対応 | <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 ・対応の相違 内部火災の対応について、女川の操作は内部火災を起因とした操作を記載しており、時間的余裕で対応することとしている。 泊の現場操作は内部火災起因の操作ではないため、発生防止を含めた火災防護対策全般にて対応する。</p> <p>【大飯】 記載内容の相違 ・女川実績の反映：起因事象に降水、生物学的事象を追加</p> |
| 内部火災（地震起因含む） | 火災に伴う炎、煙の発生及び温度上昇による現場設備操作性への影響 | 主蒸気管室の耐震Sクラス機器は、耐震を考慮した設計であり、地震が発生した場合でも、火災が発生することはない。また主蒸気管室及びアクセスルートは、耐震性を有する建屋であり、火災防護対策を実施していることから、早期の火災感知及び消火が可能である。 （詳細については、設置許可基準規則第8条「火災による損傷の防止」に関する適合状況説明資料を参照） | |
| 内部溢水（地震起因含む） | 溢水に伴う水位、温度、流量上昇、化学薬品、照明喪失、感電、漂流物による現場設備操作性への影響 | アクセスルートにおける溢水水位を歩行に支障のない水位に抑える等により、溢水に伴う現場操作への影響はない。 （詳細については、設置許可基準規則第9条「溢水による損傷の防止等」に関する適合状況説明資料を参照） | |
| 地震 | 余震による現場設備操作性への影響 | 運転員は地震が発生した場合、操作を中止し安全確保に努める。 | |
| 竜巻 | | | |
| 風（台風） | | | |
| 積雪 | | | |
| 落雷 | 外部電源喪失による照明等の所内電源の喪失 | 外部電源喪失時においても、現場及びアクセスルートの照明は、ディーゼル発電機から給電され、機能が喪失しない設計とする。 （詳細については、設置許可基準規則第11条「安全避難通路等」に関する適合状況説明資料を参照） ※ 各自然現象に対するディーゼル発電機の健全性確保状況については表1と同様。 | |
| 外部火災 | 外部火災の影響 | 外部火災の影響評価により、ばい煙や有毒ガスの発生による建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（外部火災）」、設置許可基準規則第6条「外部からの衝撃による損傷の防止（火山の影響）」、設置許可基準規則第6条「外部からの衝撃による損傷の防止（近隣工場等の火災）」に関する適合状況説明資料を参照） | |
| 火山の影響 | 降下火砕物による建屋内環境への影響 | 降下火砕物による建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（火山の影響）」に関する適合状況説明資料を参照） | |
| 表2.3.2 現場操作場所における環境条件への対応（主蒸気管室）（2/2） | | | |
| 起回事象 | 同時にもたらされる現場の環境条件 | 現場での操作性（操作の容易性）を確保するための対応 | |
| 凍結 | 凍結による建屋内環境への影響 | 換気空調設備により環境温度が維持されるため、建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（凍結）」に関する適合状況説明資料を参照） | |
| 電磁的障害* | サージ・ノイズによる計測制御回路への影響 | 計測制御回路を構成する制御盤及びケーブルは、鋼製筐体や金属シールド付ケーブルの適用により電磁波の侵入を防止する設計としており、建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（電磁的障害）」に関する適合状況説明資料を参照） | |

* 電磁的障害による影響は、指示・制御機能への影響となるため、操作性に直接影響を与えるものではない。

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添1）

大飯発電所3/4号炉

比較のため、2.6.2項から抜粋して記載箇所入替

表2 主蒸気・主給水管室、ディーゼル発電機室及び安全補機閉閉器室における環境条件への対応

| 起因事象 | 同時にもたらされる現場の環境条件 | 現場での操作性（操作容易性）に与える影響 |
|------------------------|----------------------|---|
| 地震 | 内部火災 | 現場（主蒸気・主給水管室、ディーゼル発電機室及び安全補機閉閉器室）は、耐震を考慮した設計であり、地震が発生した場合でも、火災が発生することはない。 |
| | 内部溢水 | アクセスルートへのアクセス性が阻害されないことを確認している。 |
| | 余震 | 地震発生時の対応として「運転員は地震が発生した場合、操作を中止し安全確保に努める」ことを規定欄に定めている。 |
| 電巻・台風 積雪（暴風雪） 落雷 | 外部電源喪失による照明等の所内電源の喪失 | 外部電源喪失時においても、現場（主蒸気・主給水管室、ディーゼル発電機室及び安全補機閉閉器室）の照明は、蓄電池を内蔵した照明又は可搬型照明により確保している。 |
| | 外部電源喪失による照明等の所内電源の喪失 | |
| 外部火災 | ばい煙等の発生による建屋内換気の悪化 | 外部火災の影響評価により原子炉周辺建屋内部（主蒸気・主給水管室、ディーゼル発電機室）及び制御棟（安全補機閉閉器室）に影響はないことを確認している。 |
| | 降下火砕物による建屋換気の悪化 | 火山の影響評価により、降下火砕物による原子炉周辺建屋内部（主蒸気・主給水管室及びディーゼル発電機室）及び制御棟（安全補機閉閉器室）の環境への影響はないことを確認している。外気取入れ箇所にはフィルタを設置しており、降下火砕物の建屋内への進入を防止している。 |

女川原子力発電所2号炉

比較のため、上記から再掲

第2.2-2表 中央制御室以外に同時にもたらされる環境条件への対応（1/2）

| 起因事象 | 同時にもたらされる中央制御室以外 ^{※1} の環境条件 | 中央制御室以外 ^{※1} での操作性（操作の容易性）を確保するための対応 |
|--------------|--|--|
| 内部火災（地震起因含む） | 火災に伴う炎、煙の発生及び温度上昇による現場設備操作性への影響 | 「残留熱除去系原子炉停止時冷却モード交代ラインの開閉操作」及び「中央制御室外気取入ダンパの開閉操作」については、現場操作が要求されるまでの時間的余裕があり、消火により炎、煙が収まり、室内温度が低下し、消火に伴うガス消火剤を排気してから現場へ立ち入ること。また、「原子炉保護系電源「断」操作」及び「中央制御室外原子炉停止操作」については、火災発生場所と操作場所との位置的分散を図ることにより、内部火災に伴う現場操作への影響はない。 （詳細については、設置許可基準規則第8条「火災による損傷の防止」に関する適合状況説明資料を参照） |
| 内部溢水（地震起因含む） | 溢水に伴う水位、温度、揮発上昇、化学薬品、照明喪失、感電、漂流物による現場設備操作性への影響 | アクセスルートにおける溢水水位を歩行に支障のない水位に抑える等により、溢水に伴う現場操作への影響はない。 （詳細については、設置許可基準規則第9条「溢水による損傷の防止等」に関する適合状況説明資料を参照） |
| 地震 | 余震による現場設備操作性への影響 | 運転員は地震が発生した場合、操作を中止し安全確保に努める。 |
| 電巻 | | |
| 風（台風） | | |
| 積雪 | | |
| 落雷 | 外部電源喪失による照明等の所内電源の喪失 | 外部電源喪失においても、現場の照明は、非常用ディーゼル発電機から給電され ^{※2} 、機能が喪失しない設計とする。 （詳細については、設置許可基準規則第11条「安全避難通路等」に関する適合状況説明資料を参照） |
| 外部火災 | ばい煙や有毒ガスの発生による建屋内環境への影響 | 外部火災の影響評価により、ばい煙や降下火砕物による建屋内環境への影響はない。また、空調ファンを停止し、外気取入を遮断することから建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（外部火災）」、設置許可基準規則第6条「外部からの衝撃による損傷の防止（火山の影響）」、設置許可基準規則第6条「外部からの衝撃による損傷の防止（近隣工場等の火災）」に関する適合状況説明資料を参照） |
| 火山の影響 | 降下火砕物による建屋内環境への影響 | 換気空調設備により環境温度が維持されるため、建屋内環境への影響はない。 （詳細については、設置許可基準規則第5条「外部からの衝撃による損傷の防止（凍結）」に関する適合状況説明資料を参照） |
| 凍結 | 凍結による建屋内環境への影響 | |

第2.2-2表 中央制御室以外に同時にもたらされる環境条件への対応（2/2）

| 起因事象 | 同時にもたらされる中央制御室以外 ^{※1} の環境条件 | 中央制御室以外 ^{※1} での操作性（操作の容易性）を確保するための対応 |
|--------------------|--------------------------------------|--|
| 電磁的障害 [*] | サージ・ノイズによる計測制御回路への影響 | 計測制御回路を構成する制御盤及びケーブルは、鋼製筐体や金属シールド付ケーブルの適用により電磁波の侵入を防止する設計としており、建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（電磁的障害）」に関する適合状況説明資料を参照） |

※1 中央制御室以外の現場操作の確認結果は、別添2参照

※ 電磁的障害による影響は、指示・制御機能への影響となるため、操作性に直接影響を与えるものではない。

泊発電所3号炉

表2.3.3 現場操作場所における環境条件への対応（主蒸気管室、安全補機閉閉器室、ディーゼル発電機室）（1/2）

| 起因事象 | 同時にもたらされる現場の環境条件 | 現場での操作性（操作の容易性）を確保するための対応 |
|--------------|--|---|
| 内部火災（地震起因含む） | 火災に伴う炎、煙の発生及び温度上昇による現場設備操作性への影響 | 主蒸気管室、安全補機閉閉器室、ディーゼル発電機室の耐震クラス機器は、耐震を考慮した設計であり、地震が発生した場合でも、火災が発生することはない。また主蒸気管室、安全補機閉閉器室、ディーゼル発電機室及びアクセスルートは、耐震性を有する建屋であり、火災防護対策を実施していることから、早期の火災感知及び消火が可能である。 （詳細については、設置許可基準規則第8条「火災による損傷の防止」に関する適合状況説明資料を参照） |
| 内部溢水（地震起因含む） | 溢水に伴う水位、温度、揮発上昇、化学薬品、照明喪失、感電、漂流物による現場設備操作性への影響 | アクセスルートにおける溢水水位を歩行に支障のない水位に抑える等により、溢水に伴う現場操作への影響はない。 （詳細については、設置許可基準規則第9条「溢水による損傷の防止等」に関する適合状況説明資料を参照） |
| 地震 | 余震による現場設備操作性への影響 | 運転員は地震が発生した場合、操作を中止し安全確保に努める。 |
| 電巻 | | |
| 風（台風） | | |
| 積雪 | | |
| 落雷 | 外部電源喪失による照明等の所内電源の喪失 | 全交流動力電源喪失時においても、現場及びアクセスルートの照明は、無停電運転保安灯又は可搬型照明により確保している。 |
| 外部火災 | ばい煙や有毒ガスの発生による建屋内環境への影響 | 外部火災の影響評価により、ばい煙や降下火砕物による建屋内環境への影響はない。また、空調ファンを停止し、外気取入を遮断することから建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（外部火災）」、設置許可基準規則第6条「外部からの衝撃による損傷の防止（火山の影響）」、設置許可基準規則第6条「外部からの衝撃による損傷の防止（近隣工場等の火災）」に関する適合状況説明資料を参照） |
| 火山の影響 | 降下火砕物による建屋内環境への影響 | |
| 降水（豪雨（降雨）） | | |
| 生物学的事象 | | |

表2.3.3 現場操作場所における環境条件への対応（主蒸気管室、安全補機閉閉器室、ディーゼル発電機室）（2/2）

| 起因事象 | 同時にもたらされる現場の環境条件 | 現場での操作性（操作の容易性）を確保するための対応 |
|--------------------|----------------------|--|
| 凍結 | 凍結による建屋内環境への影響 | 換気空調設備により環境温度が維持されるため、建屋内環境への影響はない。 （詳細については、設置許可基準規則第5条「外部からの衝撃による損傷の防止（凍結）」に関する適合状況説明資料を参照） |
| 電磁的障害 [*] | サージ・ノイズによる計測制御回路への影響 | 計測制御回路を構成する制御盤及びケーブルは、鋼製筐体や金属シールド付ケーブルの適用により電磁波の侵入を防止する設計としており、建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（電磁的障害）」に関する適合状況説明資料を参照） |

※ 電磁的障害による影響は、指示・制御機能への影響となるため、操作性に直接影響を与えるものではない。

相違理由

【大飯】
記載表現の相違
・女川実績の反映

【女川】
・対応の相違
内部火災の対応について、女川の操作は内部火災を起因とした操作を記載しており、時間的余裕で対応することとしている。
泊の現場操作は内部火災起因の操作ではないため、発生防止を含めた火災防護対策全般にて対応する。

【大飯】
記載内容の相違
・女川実績の反映：起
因事象に降水、生物
学的事象を追加

【大飯】
記載内容の相違
・女川実績の反映：起
因事象に電磁的障
害を追加


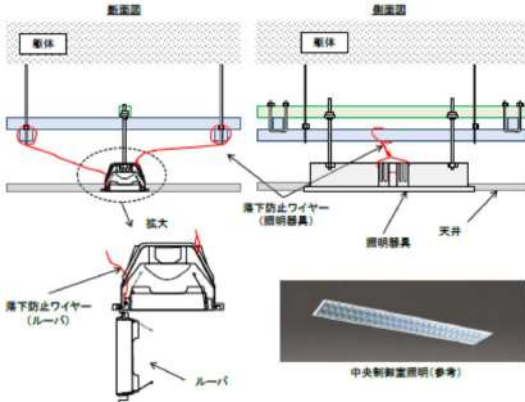

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添1）

| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|-----------------------|------|--|---|------|--|--|----|--|--|----------------------|--|---|------------------------|--|----------------------|------|--|---|----|--|--|--|------|-------------------------------------|--|--------------|---------------------------------|--|--------------|--|---|----|------------------|-------------------------------|----|--|--|-------|--|--|----|--|--|----|--|--|------|--|---|-------|--|--|------------|--|--|--------|--|--|------------|-------------------------|--|----------------|--|--|-------|-------------------|--|----|--|--|------|-------------------------------------|--|--------------------|----------------------|--|---|------|------------------|---------------------------|--------------|---------------------------------|--|--------------|--|---|----|------------------|-------------------------------|----|--|--|-------|--|--|----|--|--|----|--|--|------|--|--|------------|-------------------------|--|----------------|--|--|-------|-------------------|--|------|------------------|---------------------------|----|----------------|--|--------------------|----------------------|--|---|
| <p>比較のため、2.6.2項から抜粋して記載箇所入替</p> | <p>比較のため、上記から再掲</p> | <p>表2.3.4 現場操作場所における環境条件への対応（中央制御室外原子炉停止盤室）（1/2）</p> | <p>相違理由</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>表3 中央制御室外原子炉停止盤における環境条件への対応</p> <table border="1"> <thead> <tr> <th>起回事象</th> <th>同時にもたらされる現場中央制御室の環境条件</th> <th>現場での操作性（操作の容易性）に与える影響</th> </tr> </thead> <tbody> <tr> <td>内部火災</td> <td></td> <td>中央制御室は、耐震を考慮して設計していることから、地震が発生した場合でも火災が発生することはない。また、仮に、中央制御室にて火災が発生しても「運転員が火災状況を確認し、消火器にて初期消火を行う」ことを規定項に定めている。中央制御室には固定式のエアゾール消火設備を設置するとともに、火災が発生した場合に「感温感煙感知器により火災を感知し、固定式のエアゾール消火設備により消火を行う」ことを規定項に定めている。中央制御室の機能は維持されるため、中央制御室外原子炉停止盤で操作する必要はない。</td> </tr> <tr> <td>内部漏水</td> <td></td> <td>中央制御室は、漏水の影響を受けないことを評価しているため、中央制御室外原子炉停止盤で操作する必要はない。</td> </tr> <tr> <td>余震</td> <td></td> <td>中央制御室は、基準地震動による地震力に対して、機能を損なわない設計としていることから、中央制御室外原子炉停止盤で操作する必要はない。</td> </tr> <tr> <td>外部電源喪失による照明等の所内電源の喪失</td> <td></td> <td>外部電源喪失時においても、中央制御室の照明はディーゼル発電機から給電され、また、蓄電池を内蔵した照明及び可搬型照明を備えており、全次動力電源喪失時に重大事故等に対処するために必要な電力の供給が交直流電力電源設備から開始されるまでの間においても照明は確保されるため、中央制御室外原子炉停止盤で操作する必要はない。</td> </tr> <tr> <td>電巻・台風（暴風型） 積雪 落雷</td> <td></td> <td>外部電源喪失による照明等の所内電源の喪失</td> </tr> <tr> <td>外部火災</td> <td></td> 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中央制御室以外 [※] での操作性（操作の容易性）を確保するための対応 | 電磁的障害 [*] | サージ・ノイズによる計測制御回路への影響 | 計測制御回路を構成する制御盤及びケーブルは、鋼製筐体や金属シールド付ケーブルの適用により電磁波の侵入を防止する設計としており、建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（電磁的障害）」に関する適合状況説明資料を参照） | <p>表2.3.4 現場操作場所における環境条件への対応（中央制御室外原子炉停止盤室）（2/2）</p> <table border="1"> <thead> <tr> <th>起回事象</th> <th>同時にもたらされる現場の環境条件</th> <th>現場での操作性（操作の容易性）を確保するための対応</th> </tr> </thead> <tbody> <tr> <td>内部火災（地震起因含む）</td> <td>火災に伴う炎、煙の発生及び温度上昇による現場設備操作性への影響</td> <td>火災発生場所と操作場所との位置的分散を図ることにより、内部火災に伴う現場操作への影響はない。 （詳細については、設置許可基準規則第8条「火災による損傷の防止」に関する適合状況説明資料を参照）</td> </tr> <tr> <td>内部漏水（地震起因含む）</td> <td>漏水に伴う水位、電圧、電流上昇、化学薬品、照明喪失、感電、漂流物による現場設備操作性への影響</td> <td>アクセスルートにおける漏水水位を歩行に支障のない水位に抑える等により、漏水に伴う現場操作への影響はない。 （詳細については、設置許可基準規則第9条「漏水による損傷の防止等」に関する適合状況説明資料を参照）</td> </tr> <tr> <td>地震</td> <td>余震による現場設備操作性への影響</td> <td>運転員は地震が発生した場合、操作を中止し安全確保に努める。</td> </tr> <tr> <td>電巻</td> <td></td> <td></td> </tr> <tr> <td>嵐（台風）</td> <td></td> <td></td> </tr> <tr> <td>積雪</td> <td></td> <td></td> </tr> <tr> <td>落雷</td> <td></td> <td></td> </tr> <tr> <td>外部火災</td> <td></td> <td>外部電源喪失時においても、現場及びアクセスルートの照明は、ディーゼル発電機から給電され[※]、機能が喪失しない設計とする。 （詳細については、設置許可基準規則第11条「安全避難経路等」に関する適合状況説明資料を参照）</td> </tr> <tr> <td>外部火災（森林火災）</td> <td>ばい煙や有毒ガスの発生による建屋内環境への影響</td> <td>外気取入運転を行っている換気空調設備は、外気取入口にフィルタを設置しているため、ばい煙や降下火砕物による建屋内環境への影響はない。また、空調ファンを停止し、外気取入を遮断することから建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（外部火災）」、設置許可基準規則第6条「外部からの衝撃による損傷の防止（火山の影響）」、設置許可基準規則第6条「外部からの衝撃による損傷の防止（近隣工場等の火災）」に関する適合状況説明資料を参照）</td> </tr> <tr> <td>外部火災（近隣工場等の火災）</td> <td></td> <td></td> </tr> <tr> <td>火山の影響</td> <td>降下火砕物による建屋内環境への影響</td> <td></td> </tr> </tbody> </table> <p>表2.3.4 現場操作場所における環境条件への対応（中央制御室外原子炉停止盤室）（2/2）</p> <table border="1"> <thead> <tr> <th>起回事象</th> <th>同時にもたらされる現場の環境条件</th> <th>現場での操作性（操作の容易性）を確保するための対応</th> </tr> </thead> <tbody> <tr> <td>凍結</td> <td>凍結による建屋内環境への影響</td> <td>換気空調設備により環境温度が維持されるため、建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（凍結）」に関する適合状況説明資料を参照）</td> </tr> <tr> <td>電磁的障害[*]</td> <td>サージ・ノイズによる計測制御回路への影響</td> <td>計測制御回路を構成する制御盤及びケーブルは、鋼製筐体や金属シールド付ケーブルの適用により電磁波の侵入を防止する設計としており、建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（電磁的障害）」に関する適合状況説明資料を参照）</td> </tr> </tbody> </table> <p>※電磁的障害による影響は、指示・制御機能への影響となるため、操作性に直接影響を与えるものではない。</p> | 起回事象 | 同時にもたらされる現場の環境条件 | 現場での操作性（操作の容易性）を確保するための対応 | 内部火災（地震起因含む） | 火災に伴う炎、煙の発生及び温度上昇による現場設備操作性への影響 | 火災発生場所と操作場所との位置的分散を図ることにより、内部火災に伴う現場操作への影響はない。 （詳細については、設置許可基準規則第8条「火災による損傷の防止」に関する適合状況説明資料を参照） | 内部漏水（地震起因含む） | 漏水に伴う水位、電圧、電流上昇、化学薬品、照明喪失、感電、漂流物による現場設備操作性への影響 | アクセスルートにおける漏水水位を歩行に支障のない水位に抑える等により、漏水に伴う現場操作への影響はない。 （詳細については、設置許可基準規則第9条「漏水による損傷の防止等」に関する適合状況説明資料を参照） | 地震 | 余震による現場設備操作性への影響 | 運転員は地震が発生した場合、操作を中止し安全確保に努める。 | 電巻 | | | 嵐（台風） | | | 積雪 | | | 落雷 | | | 外部火災 | | 外部電源喪失時においても、現場及びアクセスルートの照明は、ディーゼル発電機から給電され [※] 、機能が喪失しない設計とする。 （詳細については、設置許可基準規則第11条「安全避難経路等」に関する適合状況説明資料を参照） | 外部火災（森林火災） | ばい煙や有毒ガスの発生による建屋内環境への影響 | 外気取入運転を行っている換気空調設備は、外気取入口にフィルタを設置しているため、ばい煙や降下火砕物による建屋内環境への影響はない。また、空調ファンを停止し、外気取入を遮断することから建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（外部火災）」、設置許可基準規則第6条「外部からの衝撃による損傷の防止（火山の影響）」、設置許可基準規則第6条「外部からの衝撃による損傷の防止（近隣工場等の火災）」に関する適合状況説明資料を参照） | 外部火災（近隣工場等の火災） | | | 火山の影響 | 降下火砕物による建屋内環境への影響 | | 起回事象 | 同時にもたらされる現場の環境条件 | 現場での操作性（操作の容易性）を確保するための対応 | 凍結 | 凍結による建屋内環境への影響 | 換気空調設備により環境温度が維持されるため、建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（凍結）」に関する適合状況説明資料を参照） | 電磁的障害 [*] | サージ・ノイズによる計測制御回路への影響 | 計測制御回路を構成する制御盤及びケーブルは、鋼製筐体や金属シールド付ケーブルの適用により電磁波の侵入を防止する設計としており、建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（電磁的障害）」に関する適合状況説明資料を参照） | <p>【大飯】 ・対応の相違 大飯は火災等の環境条件を想定しても中央制御室での操作容易性が確保されるため、本現場操作の必要性がないと整理している。泊は女川実績を反映し、火災その他の異常な事態により中央制御室内での操作が困難となった場合を想定した操作の影響を評価している。</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【大飯】 記載内容の相違 ・女川実績の反映：起 因事象に降水、生物学的事象を追加</p> <p>【大飯】 記載内容の相違 ・女川実績反映：凍結</p> <p>【大飯】 記載内容の相違 ・女川実績の反映：起 因事象に電磁的障害を追加</p> |
| 起回事象 | 同時にもたらされる現場中央制御室の環境条件 | 現場での操作性（操作の容易性）に与える影響 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 内部火災 | | 中央制御室は、耐震を考慮して設計していることから、地震が発生した場合でも火災が発生することはない。また、仮に、中央制御室にて火災が発生しても「運転員が火災状況を確認し、消火器にて初期消火を行う」ことを規定項に定めている。中央制御室には固定式のエアゾール消火設備を設置するとともに、火災が発生した場合に「感温感煙感知器により火災を感知し、固定式のエアゾール消火設備により消火を行う」ことを規定項に定めている。中央制御室の機能は維持されるため、中央制御室外原子炉停止盤で操作する必要はない。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 内部漏水 | | 中央制御室は、漏水の影響を受けないことを評価しているため、中央制御室外原子炉停止盤で操作する必要はない。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 余震 | | 中央制御室は、基準地震動による地震力に対して、機能を損なわない設計としていることから、中央制御室外原子炉停止盤で操作する必要はない。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 外部電源喪失による照明等の所内電源の喪失 | | 外部電源喪失時においても、中央制御室の照明はディーゼル発電機から給電され、また、蓄電池を内蔵した照明及び可搬型照明を備えており、全次動力電源喪失時に重大事故等に対処するために必要な電力の供給が交直流電力電源設備から開始されるまでの間においても照明は確保されるため、中央制御室外原子炉停止盤で操作する必要はない。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 電巻・台風（暴風型） 積雪 落雷 | | 外部電源喪失による照明等の所内電源の喪失 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 外部火災 | | 外部火災の影響評価により原子炉補助建屋内部（中央制御室）に影響はないことを確認しているため、中央制御室外原子炉停止盤で操作する必要はない。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 火山 | | 外部火災の影響評価及び火山の影響評価により原子炉補助建屋内部（中央制御室）に影響はないことを確認している。なお、中央制御室の空調系を自動で巡回経路運転へ切り替えることで外気を遮断できるため、中央制御室外原子炉停止盤で操作する必要はない。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 起回事象 | 同時にもたらされる中央制御室以外 [※] の環境条件 | 中央制御室以外 [※] での操作性（操作の容易性）を確保するための対応 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 内部火災（地震起因含む） | 火災に伴う炎、煙の発生及び温度上昇による現場設備操作性への影響 | 「残留熱除去系原子炉停止時冷却モード戻込ラインの開閉操作」及び「中央制御室外気取入ダンパの開閉操作」については、現場操作が要求されるまで時間的余裕があり、消火により炎、煙が収まり、室内温度が低下し、消火に伴うガス消火剤を排気してから現場へ立ち入ること。また、「原子炉保護電源「断」操作」及び「中央制御室外原子炉停止操作」については、火災発生場所と操作場所との位置的分散を図ることにより、内部火災に伴う現場操作への影響はない。 （詳細については、設置許可基準規則第8条「火災による損傷の防止」に関する適合状況説明資料を参照） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 内部漏水（地震起因含む） | 漏水に伴う水位、電圧、電流上昇、化学薬品、照明喪失、感電、漂流物による現場設備操作性への影響 | アクセスルートにおける漏水水位を歩行に支障のない水位に抑える等により、漏水に伴う現場操作への影響はない。 （詳細については、設置許可基準規則第9条「漏水による損傷の防止等」に関する適合状況説明資料を参照） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 地震 | 余震による現場設備操作性への影響 | 運転員は地震が発生した場合、操作を中止し安全確保に努める。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 電巻 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 嵐（台風） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 積雪 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 落雷 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 外部火災 | | 外部電源喪失においても、現場の照明は、非常用ディーゼル発電機から給電され [※] 、機能が喪失しない設計とする。 （詳細については、設置許可基準規則第11条「安全避難経路等」に関する適合状況説明資料を参照） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 火山の影響 | | ※2 各自然現象に対する非常用ディーゼル発電機の健全性確保状況については、第2.2-1表と同様。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 降水（豪雨（降雨）） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 生物学的事象 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 外部火災（森林火災） | ばい煙や有毒ガスの発生による建屋内環境への影響 | 外気取入運転を行っている建屋換気空調設備は、外気取入口にフィルタを設置しているため、ばい煙や降下火砕物による建屋内環境への影響はない。また、空調ファンを停止し、外気取入を遮断することから建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（外部火災）」、設置許可基準規則第6条「外部からの衝撃による損傷の防止（火山の影響）」、設置許可基準規則第6条「外部からの衝撃による損傷の防止（近隣工場等の火災）」に関する適合状況説明資料を参照） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 外部火災（近隣工場等の火災） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 火山の影響 | 降下火砕物による建屋内環境への影響 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 凍結 | | 換気空調設備により環境温度が維持されるため、建屋内環境への影響はない。 （詳細については、設置許可基準規則第5条「外部からの衝撃による損傷の防止（凍結）」に関する適合状況説明資料を参照） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 起回事象 | 同時にもたらされる中央制御室以外 [※] の環境条件 | 中央制御室以外 [※] での操作性（操作の容易性）を確保するための対応 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 電磁的障害 [*] | サージ・ノイズによる計測制御回路への影響 | 計測制御回路を構成する制御盤及びケーブルは、鋼製筐体や金属シールド付ケーブルの適用により電磁波の侵入を防止する設計としており、建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（電磁的障害）」に関する適合状況説明資料を参照） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 起回事象 | 同時にもたらされる現場の環境条件 | 現場での操作性（操作の容易性）を確保するための対応 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 内部火災（地震起因含む） | 火災に伴う炎、煙の発生及び温度上昇による現場設備操作性への影響 | 火災発生場所と操作場所との位置的分散を図ることにより、内部火災に伴う現場操作への影響はない。 （詳細については、設置許可基準規則第8条「火災による損傷の防止」に関する適合状況説明資料を参照） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 内部漏水（地震起因含む） | 漏水に伴う水位、電圧、電流上昇、化学薬品、照明喪失、感電、漂流物による現場設備操作性への影響 | アクセスルートにおける漏水水位を歩行に支障のない水位に抑える等により、漏水に伴う現場操作への影響はない。 （詳細については、設置許可基準規則第9条「漏水による損傷の防止等」に関する適合状況説明資料を参照） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 地震 | 余震による現場設備操作性への影響 | 運転員は地震が発生した場合、操作を中止し安全確保に努める。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 電巻 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 嵐（台風） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 積雪 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 落雷 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 外部火災 | | 外部電源喪失時においても、現場及びアクセスルートの照明は、ディーゼル発電機から給電され [※] 、機能が喪失しない設計とする。 （詳細については、設置許可基準規則第11条「安全避難経路等」に関する適合状況説明資料を参照） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 外部火災（森林火災） | ばい煙や有毒ガスの発生による建屋内環境への影響 | 外気取入運転を行っている換気空調設備は、外気取入口にフィルタを設置しているため、ばい煙や降下火砕物による建屋内環境への影響はない。また、空調ファンを停止し、外気取入を遮断することから建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（外部火災）」、設置許可基準規則第6条「外部からの衝撃による損傷の防止（火山の影響）」、設置許可基準規則第6条「外部からの衝撃による損傷の防止（近隣工場等の火災）」に関する適合状況説明資料を参照） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 外部火災（近隣工場等の火災） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 火山の影響 | 降下火砕物による建屋内環境への影響 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 起回事象 | 同時にもたらされる現場の環境条件 | 現場での操作性（操作の容易性）を確保するための対応 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 凍結 | 凍結による建屋内環境への影響 | 換気空調設備により環境温度が維持されるため、建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（凍結）」に関する適合状況説明資料を参照） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 電磁的障害 [*] | サージ・ノイズによる計測制御回路への影響 | 計測制御回路を構成する制御盤及びケーブルは、鋼製筐体や金属シールド付ケーブルの適用により電磁波の侵入を防止する設計としており、建屋内環境への影響はない。 （詳細については、設置許可基準規則第6条「外部からの衝撃による損傷の防止（電磁的障害）」に関する適合状況説明資料を参照） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添1）

| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|---|--|--|--|
| <p>2.4 中央制御室における操作の容易性</p> <p>泊3号炉と比較のため、2.4.1項から抜粋して記載箇所入替</p> <p>なお、不快なまぶしきの軽減及び視認性を高めるため天井にルーバを設置している。ルーバは地震時の落下防止措置を講じている。</p>  <p>第2.3-1図 中央制御室照明ルーバの落下防止対策</p> | <p>2.3 環境条件下における操作の容易性</p> <p>(1) 中央制御室における操作の容易性（環境条件に対する考慮）</p> <p>a. 中央制御室の通常時の環境</p> <p>中央制御室は、運転員の居住性、監視操作性等に鑑み、以下を考慮した設計とする。</p> <p>(a) 温湿度</p> <p>中央制御室換気空調系により、運転操作に適した室温（21～26℃）、湿度（40～60%RH）に調整可能な設計とする。</p> <p>(b) 照度</p> <p>中央制御室の照明設備については、運転監視業務に加え、机上業務も考慮してベンチ盤操作部エリアは平均1,000ルクスを確保可能な設計とする。</p> <p>なお、不快なグレア（ディスプレイに照明が映り込むことによる見えづらさ）の軽減及び視認性を高めるため天井にルーバを設置しており、ルーバは地震等で落下を防止するため、落下防止ワイヤーにて固定する。</p>  <p>第2.3-1図 中央制御室照明ルーバの落下防止対策</p> <p>(c) 騒音</p> <p>運転員間のコミュニケーションが適切に行えるような騒音レベルを維持できる設計（PNC値で50以下の設計^{※1}）とする。</p> <p>※1 室内の定常的騒音に対する推奨許容値として、PNC値50～60（出典：空気調和・衛生工学便覧）</p> | <p>2.4 環境条件下における操作の容易性</p> <p>(1) 中央制御室における操作の容易性（環境条件に対する考慮）</p> <p>a. 中央制御室の通常時の環境</p> <p>中央制御室は、運転員の居住性、監視操作性等に鑑み、以下を考慮した設計とする。</p> <p>(a) 温湿度</p> <p>中央制御室空調装置により、運転操作に適した室温（21～24℃）、湿度（40～60%RH）に調整可能な設計とする。</p> <p>(b) 照度</p> <p>中央制御室の照明設備については、運転監視業務に加え、机上業務も考慮して床面平均1,000ルクスを確保可能な設計とする。</p> <p>なお、不快なグレア（ディスプレイに照明が映り込むことによる見えづらさ）の軽減及び視認性を高めるため光天井膜を設置しており、光天井膜は地震等で落下を防止するため、クランプ（留め具）にて固定する。なお、もし仮に落下しても光天井膜は軽量のフィルム（厚さ0.26mm程度）であるため、設備や運転員の安全性に影響はない。</p>  <p>図2.4.1 中央制御室の照明設備（光天井）</p> <p>(c) 騒音</p> <p>運転員間のコミュニケーションが適切に行えるような騒音レベルを維持できる設計（設計目標値45dB（最大55dB）^{※1}）とする。</p> <p>※1 発電所制御室の推奨値56～66dBに対し、より作業環境改善を図るべく設定（出典：空気調和・衛生工学便覧）</p> | <p>相違理由</p> <p>【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【女川】 名称の相違 ・中央制御室換気空調系⇄中央制御室空調装置</p> <p>【女川】 設計値の相違 ・室温・照度・騒音の設計値が異なるが、運転操作に適した環境に保つという点で同等である。</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【大飯、女川】 設備の相違 ・ルーバと光天井の相違があるが、不快なまぶしきの軽減及び視認性を高める設計、並びに落下防止の措置を行っているという点で同等である。</p> <p>【女川】 設計値の相違 ・室温・照度・騒音の設計値が異なるが、運転操作に適した環境に保つという点で同等である。</p> |

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| <p>比較のため、記載順序入替</p> <p>2.4.3 中央制御室の環境に影響を与える可能性のある事象に対する考慮</p> <p>運転中の異常な過渡変化及び設計基準事故等発生時に必要な操作は、当該操作が必要となった事象が同時にたらず環境条件を考慮しても、中央制御室にて容易に実施可能な設計とする。</p> <p>重大事故が発生した場合においても運転員が適切に運転できるよう、必要な設備（中央制御室空調ファン、中央制御室循環ファン、中央制御室非常用循環ファン及び中央制御室非常用照明）を設置している。</p> <p>比較のため、2.4.3.1項より抜粋して記載箇所入替</p> <p>なお、プラント停止・冷却操作、監視等の操作が必要となる設計基準事故時に作業が必要な場所に照明を確保する。</p> <p>b. 火災：中央制御室にて火災が発生した場合は、運転員が火災状況を確認し、初期消火を行うことができるよう消火器を設置している。</p> | <p>b. 中央制御室の環境に影響を与える可能性のある事象に対する考慮</p> <p>中央制御室における環境条件に対し、以下のとおり設計する。</p> <p>(a) 火災による中央制御室内設備操作性への影響</p> <p>中央制御室に二酸化炭素消火器を設置するとともに、常駐する運転員によって火災感知器及び火災報知設備による早期の火災感知を可能とし、火災が発生した場合の運転員の対応手順に定め、運転員による速やかな消火を行うことで運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>また、中央制御室床下に火災感知器及び自動消火設備である局所ガス消火設備を設置し、早期に火災を感知して消火することにより、運転操作に影響を与えず容易に操作ができる設計とする。</p> | <p>b. 中央制御室の環境に影響を与える可能性のある事象に対する考慮</p> <p>中央制御室における環境条件に対し、以下のとおり設計する。</p> <p>運転中の異常な過渡変化及び設計基準事故等発生時に必要な操作は、当該操作が必要となった事象が同時にたらず環境条件を考慮しても、中央制御室にて容易に実施可能な設計とする。</p> <p>重大事故が発生した場合においても運転員が適切に運転できるよう、必要な設備（中央制御室給気ファン、中央制御室循環ファン、中央制御室非常用循環ファン及び中央制御室作業用照明）を設置している。</p> <p>なお、プラント停止・冷却操作、監視等の操作が必要となる設計基準事故時に作業が必要な場所に照明を確保する。</p> <p>(a) 火災による中央制御室内設備操作性への影響</p> <p>中央制御室に二酸化炭素消火器及び粉末消火器を設置するとともに、常駐する運転員によって火災感知器及び火災報知設備による早期の火災感知を可能とし、火災が発生した場合の運転員の対応手順に定め、運転員による速やかな消火を行うことで運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>また、中央制御室床下のフロアケーブルダクトに火災感知器及び自動消火設備であるイナートガス消火設備を設置し、早期に火災を感知して消火することにより、運転操作に影響を与えず容易に操作ができる設計とする。</p> | <p>相違理由</p> <p>【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【女川】 記載充実（大飯参照）</p> <p>【大飯】 名称の相違 ・中央制御室空調ファン⇨中央制御室給気ファン ・中央制御室非常用照明⇨中央制御室作業用照明</p> <p>【女川】 記載充実（大飯参照）</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 運用の相違 ・消火器の種類</p> <p>【大飯】 記載内容の相違 ・女川実績反映：床下ケーブル</p> <p>【女川】 記載表現の相違</p> <p>【女川】 名称の相違 ・局所ガス消火設備⇨イナートガス消火設備</p> |

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第10条 誤操作の防止（別添1）

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|---|---|---|---|
| <p>比較のため、2.4.3.1項より抜粋して記載箇所入替</p> <p>中央制御盤内で火災が発生し、高感度煙感知器により火災を感知した場合は、手動操作にて運転員が消火を行うことができる固定式のエアロゾル消火設備を設置している。中央制御盤内の固定式のエアロゾル消火設備による消火時に発生する気体には毒性がないため人体に有意な影響を及ぼさず、制御盤扉を閉止して動作させるため、消火剤の大部分は盤内に留まり居住性に影響はない。機器への影響についても、消火時に発生する気体には腐食性がなく、電気絶縁性も高いことから機器への影響はない。</p> <p>a. 地震：</p> <p>中央制御室内に設置するキャビネット等は転倒防止措置を講じ、キャビネット等の転倒による制御盤上の操作器へ誤接触の防止を図る。</p> <p>また、運転員機、制御盤には手摺を設置し、運転員は地震が発生した場合、手摺にて安全の確保及び制御盤上の操作器へ誤接触の防止を図り、警報発信状況等の把握に努めることとしている。</p> <p>また、中央制御盤裏側には放射線監視盤等が設置されているが、緊急を要する操作等はなく、中央制御盤の警報等で状態を監視し、必要に応じて対応する。</p> | <p>(b) 地震</p> <p>中央制御室及び制御盤は、耐震性を有する制御建屋内に設置し、基準地震動による地震力に対し必要となる機能が喪失しない設計とする。</p> <p>また、制御盤及び工具や可搬型照明を保管するキャビネットは床等に固定することにより、地震発生時においても運転操作に影響を与えない設計とする。</p> <p>さらに、制御盤に手摺を設置するとともに天井照明設備には落下防止措置を講じることにより、地震発生時における運転員の安全確保及び制御盤上の操作器への誤接触を防止できる設計とする。</p> | <p>また、中央制御盤内で火災が発生した場合には、盤内の煙検出装置により火災を感知し、常駐する運転員が二酸化炭素消火器による消火を行うことを社内規程類に定めることで速やかな消火を可能とし、容易に操作することができる設計とする。</p> <p>(b) 地震</p> <p>中央制御室及び中央制御盤は、耐震性を有する原子炉補助建屋内に設置し、基準地震動による地震力に対し必要となる機能が喪失しない設計とする。</p> <p>また、中央制御室内に設置する制御盤、工具や可搬型照明を保管するキャビネット等は床等に固定することにより、地震発生時においても運転操作に影響を与えない設計とする。</p> <p>さらに、運転員機、中央制御盤に手摺を設置するとともに天井照明設備には落下防止措置を講じることにより、地震発生時における運転員の安全確保及び主盤上の操作器への誤接触を防止できる設計とする。</p> | <p>【女川】 記載充実（大飯参照）</p> <p>【大飯】 記載表現の相違</p> <p>【大飯】 設備の相違①：盤内火災の対応</p> <p>【大飯】 記載内容の相違</p> <p>・女川実績の反映</p> <p>【女川】 名称の相違</p> <p>・制御盤⇄中央制御盤、主盤</p> <p>・制御建屋⇄原子炉補助建屋</p> <p>【大飯】 記載表現の相違</p> <p>・女川実績の反映</p> <p>【女川】 記載表現の相違</p> <p>・泊は制御盤及び工具や可搬型照明を保管するキャビネット以外にも監視カメラのモニタ等を設置するラックや社内規程類を保管するキャビネット等を地震発生時においても運転操作に影響を与えないように固定しているため、「等」を記載。</p> <p>【女川】 設備の相違</p> <p>・手摺の設置箇所</p> <p>【大飯】 設備の相違②：新型中央制御盤</p> |

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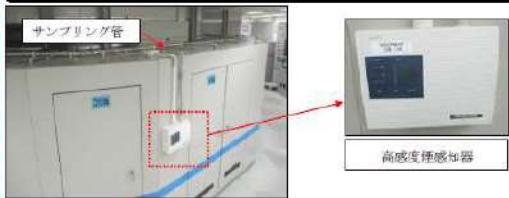
第10条 誤操作の防止（別添1）

大飯発電所3/4号炉

比較のため、2.4.3.1項より抜粋して記載箇所入替

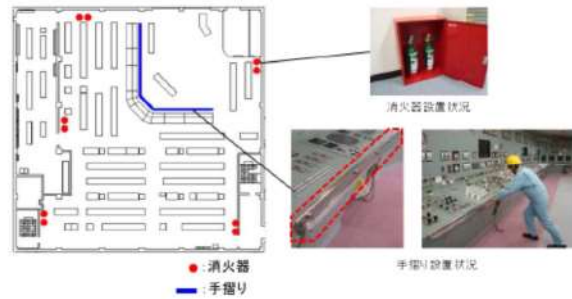


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女川原子力発電所2号炉



第 2.3-2 図 中央制御室における消火器及び手摺りの状況

泊発電所3号炉

相違理由



図 2.4.2 中央制御室における消火器の設置状況、キャビネット等の固定状況及び手摺の設置イメージ

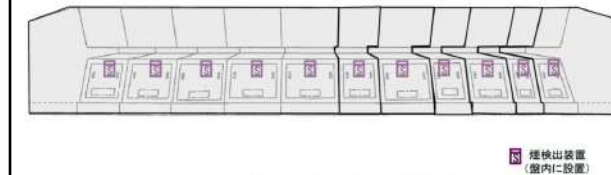

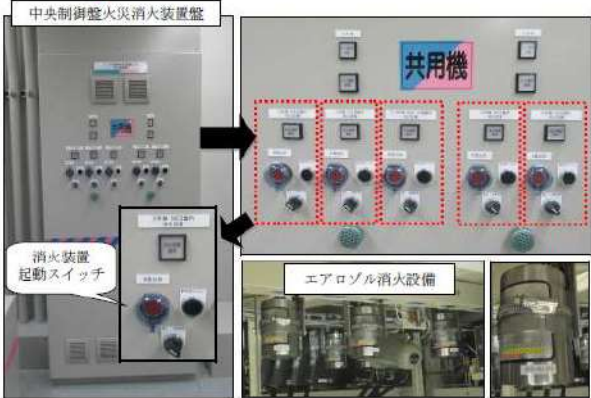


図 2.4.3 中央制御盤 煙検出装置配置

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|--|-------------|---------|---|
| <p>比較のため、2.4.3.1項より抜粋して記載箇所入替</p>   <p>中央制御盤火災消火装置盤</p> <p>共用機</p> <p>消火装置 起動スイッチ</p> <p>エアロゾル消火設備</p> <p>枠囲みの範囲は機密に係る事項ですので公開することはできません。</p> | | | <p>【大飯】 設備の相違③:盤内火災の対応</p> |

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第10条 誤操作の防止（別添1）

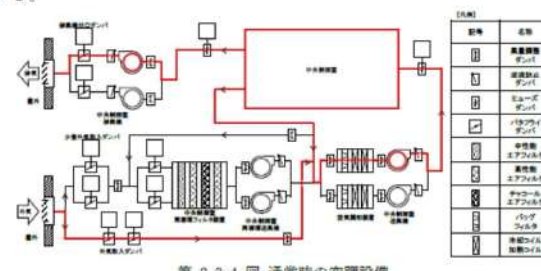
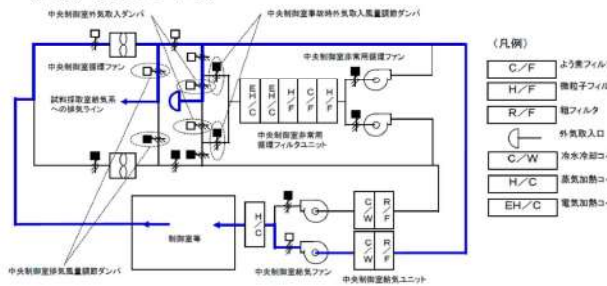
| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--|--|--|---|
| <p>2.4.1 照明設備について</p> <p>中央制御室の照明については非常用電源から給電しており、外部電源が喪失しても一定時間照明（外部電源喪失時照度：200ルクス）を確保している。</p> <p>また、全交流動力電源喪失時においても、重大事故等に対処するために必要な電力の供給が交流動力電源設備から開始されるまでの間、蓄電池内蔵照明や可搬型照明により操作を可能としている。</p> | <p>(c) 外部電源喪失による照明等の所内電源の喪失</p> <p>中央制御室における運転操作に必要な照明は、地震、竜巻、風（台風）、積雪、落雷、外部火災及び降下火砕物に伴い外部電源が喪失した場合には、非常用ディーゼル発電機が起動することにより、操作に必要な照明用電源を確保し、容易に操作ができる設計とする。</p> <p>中央制御室の照明設備については、非常用照明とし、外部電源が喪失しても照明（ベンチ盤操作部・指令卓エリア：平均1,000ルクス）を確保する設計とする。</p> <p>また、全交流動力電源喪失時は、常設代替交流電源設備が起動し、電源を供給することで、非常用照明が復旧する。常設代替交流電源設備により非常用照明が復旧するまでの間は、直流照明兼非常用照明が点灯可能な設計とする。</p> <p>なお、中央制御室には可搬型照明も配備しており、非常用照明及び直流照明兼非常用照明が機能喪失した場合でも、直流照明により可搬型照明保管場所まで移動し、可搬型照明を持ち出して使用することにより、操作に必要な盤面や計器等を照らすことが可能である。</p> | <p>(c) 外部電源喪失による照明等の所内電源の喪失</p> <p>中央制御室における運転操作に必要な照明は、地震、竜巻、風（台風）、積雪、落雷、外部火災及び降下火砕物に伴い外部電源が喪失した場合には、ディーゼル発電機が起動することにより、操作に必要な照明用電源を確保し、容易に操作ができる設計とする。</p> <p>中央制御室の照明設備については、作業用照明とし、外部電源が喪失しても照明（床面平均200ルクス）を確保する設計とする。</p> <p>また、全交流動力電源喪失時は、代替非常用発電機が起動し、電源を供給することで、作業用照明が復旧する。代替非常用発電機により作業用照明が復旧するまでの間は、無停電運転保安灯が点灯可能な設計とする。</p> <p>また、中央制御室には可搬型照明も配備しており、作業用照明が機能喪失した場合でも、無停電運転保安灯により可搬型照明保管場所まで移動し、可搬型照明を持ち出して使用することにより、操作に必要な盤面や計器等を照らすことが可能である。</p> | <p>【大飯】 項目名称の相違 ・女川実績の反映</p> <p>【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【女川】 名称の相違 ・非常用ディーゼル発電機⇔ディーゼル発電機 ・非常用照明⇔作業用照明</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 設計値の相違 ・外部電源喪失時の照度が異なるが、大飯と同等である。</p> <p>【大飯、女川】 名称の相違 ・交流動力電源設備⇔常設代替交流電源設備⇔代替非常用発電機 ・蓄電池内蔵照明⇔直流照明⇔無停電運転保安灯</p> <p>【女川】 記載表現の相違</p> <p>【女川】 設備の相違 ・女川は非常用直流電源から給電する直流照明兼非常用照明を設置している。泊は全交流動力電源喪失時の照明は無停電運転保安灯にて確保する。</p> |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大阪発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|---|---|--|---|
| <p>比較のため、同項内で記載箇所入替</p>  <p>枠囲みの範囲は機密に係る事項ですので公開することはできません。</p> |  <p>新館建屋3階 O.P.33,500</p>  <p>第 2.3-3 図 中央制御室の照明配置図</p> |   <p>図 2.4.4 中央制御室における照明の配置図及び可搬型照明保管場所</p> | |
| <p>【設備仕様】</p> <ul style="list-style-type: none"> ●中央制御室非常用照明 運転保安灯 : 200 ルクス (設計値) 非常灯照度 : 床面 20 ルクス以上 (設計値) ●中央制御室通常照明 : 700 ルクス (設計値) | <p>【照明設備の仕様】</p> <ul style="list-style-type: none"> ●非常用照明照度 <ul style="list-style-type: none"> ベンチ盤操作部・指令卓エリア : 平均 1,000 ルクス (設計値) 鉛直にある計器面 : 平均 500 ルクス (設計値) ●直流照明兼非常用照明照度 : 平均 200 ルクス (設計値) ●直流照明 : 平均 1 ルクス以上 (設計値) | <p>【照明設備の仕様】</p> <ul style="list-style-type: none"> ●作業用照明照度 (ディーゼル発電機から給電) : 床面平均 200 ルクス (設計値) ●無停電運転保安灯照度 (内蔵蓄電池から給電) : 床面平均 20 ルクス以上 (設計値) ●中央制御室通常照明 : 床面平均 1000 ルクス (設計値) | <p>【大阪、女川】 記載表現、名称の相違</p> <p>【女川】 設計値の相違</p> <ul style="list-style-type: none"> ●非常用照明の照度が異なるが、大阪と同等である。 <p>【女川】 設備の相違</p> <ul style="list-style-type: none"> ●女川は非常用直流電源から給電する直流照明兼非常用照明及び直流照明を設置している。泊は全交流動力電源喪失時の照明は無停電運転保安灯にて確保する。 |

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 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添1）

| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|---|--|---|---|
| <p>2.4.2 空調設備について</p> <p>①通常時、中央制御室空調ファン及び中央制御室循環ファンにより中央制御室の空調を行う。</p> <p>②事故時は、外気を遮断し、中央制御室非常用循環ファンにより微粒子フィルタ及びびよう素フィルタを通した閉回路循環運転とし、放射線被ばくから防護する構成としている。</p> <p>なお、室内の雰囲気が悪くなった場合には、中央制御室非常用循環システムにより外気を浄化して取り入れることもできる。</p> | <p>(d) ばい煙や有毒ガスの発生による中央制御室内環境への影響</p> <p>外部火災により発生するばい煙や有毒ガス並びに降下火砕物による中央制御室内の操作雰囲気悪化に対しては、中央制御室換気空調系の外気取入ダンパを閉止し、事故時運転モードとすることで外気を遮断することから、運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>中央制御室換気空調系について、通常時は、外気取入ダンパ、空気調和装置、送風機、排風機及び排風機出口ダンパにより中央制御室の換気を行う。外気及び再循環空気は、空気調和装置を介して送風機により中央制御室に供給し、排風機により建屋外に直接排気する設計とする。</p>  <p>第 2.3-4 図 通常時の空調設備</p> <p>事故時は、外気取入ダンパ及び排風機出口ダンパが自動で閉動作することで、外気から隔離し、室内空気を空気調和装置に通して再循環する設計とする。</p> <p>この時、再循環空気の一部を中央制御室再循環フィルタ装置により浄化することで、運転員を放射線被ばくから防護する設計とする。外気取入時には、少量外気取入ダンパを開操作することで、外気を浄化して中央制御室内に取り入れることが可能な設計とする。</p> | <p>(d) ばい煙や有毒ガスの発生による中央制御室内環境への影響</p> <p>外部火災により発生するばい煙や有毒ガス並びに降下火砕物による中央制御室内の操作雰囲気悪化に対しては、中央制御室空調装置の外気取入ダンパを閉止し、閉回路循環運転とすることで外気を遮断することから、運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>中央制御室空調装置について、通常時は、外気取入ダンパ、給気ユニット、中央制御室給気ファン、中央制御室循環ファン及び排気風量調節ダンパにより中央制御室の換気を行う。外気及び再循環空気は、給気ユニットを介して中央制御室給気ファンにより中央制御室に供給し、排気風量調節ダンパにより試料採取室給気系を介して建屋外に排気する設計とする。</p>  <p>図 2.4.5 中央制御室空調装置（通常時）</p> <p>事故時は、外気取入ダンパ及び排気風量調節ダンパが自動で閉動作することで、外気から隔離し、室内空気を給気ユニットに通して再循環する設計とする。</p> <p>この時、再循環空気の一部を非常用循環フィルタユニットにより浄化することで、運転員を放射線被ばくから防護する設計とする。外気取入時には、外気取入ダンパ及び事故時外気取入風量調節ダンパを開操作することで、外気を浄化して中央制御室内に取り入れることが可能な設計とする。</p> | <p>【大飯】 項目名称の相違 ・女川実績の反映</p> <p>【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【女川】 名称の相違 ・中央制御室換気空調系⇔中央制御室空調装置 ・事故時運転モード⇔閉回路循環運転</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【大飯、女川】 名称の相違 ・前述済は省略 ・中央制御室空調ファン⇔送風機⇔中央制御室給気ファン ・空気調和装置⇔給気ユニット ・排風機出口ダンパ⇔排気風量調節ダンパ</p> <p>【女川】 設備の相違 ・排風機⇔中央制御室循環ファン ・直接排気⇔試料採取室給気系を介した排気</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 名称の相違 ・前述済は省略 ・中央制御室再循環フィルタ装置⇔非常用循環フィルタ</p> |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

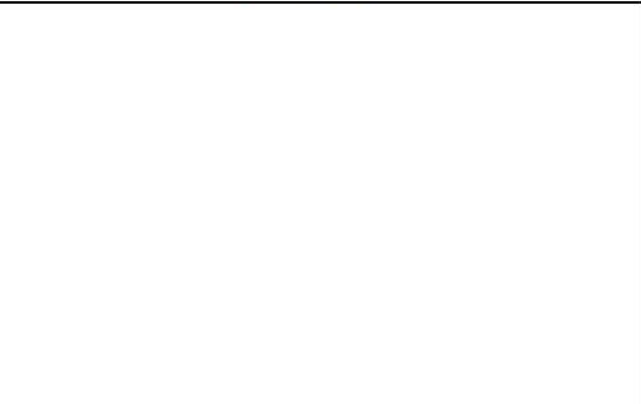
第10条 誤操作の防止（別添1）

大飯発電所3/4号炉

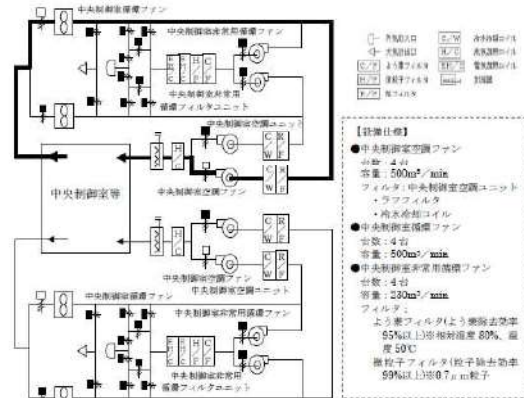
女川原子力発電所2号炉

泊発電所3号炉

相違理由



③外部火災によるばい煙や有毒ガス、降下火砕物に対しては、手動で閉回路循環運転へ切り替えることで外気を遮断できる。

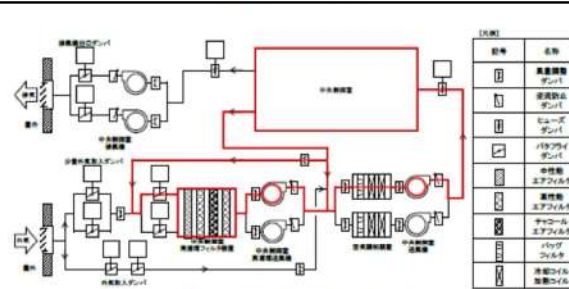


中央制御室空調装置の概略図（閉回路循環運転の例）

比較のため、上図から再掲

【設備仕様】

- 中央制御室空調ファン 台数：4台 容量：500m³/min
 フィルタ：中央制御室空調ユニット
 ・ラフフィルタ ・冷水冷却コイル
- 中央制御室循環ファン 台数：4台 容量：500m³/min
- 中央制御室非常用循環ファン 台数：4台 容量：230m³/min
 フィルタ：
 よう素フィルタ（よう素除去効率95%以上）※相対湿度80%、温度50℃
 微粒子フィルタ（粒子除去効率99%以上）※0.7μm粒子



第 2.3-5 図 事故時の空調設備

外部火災によるばい煙や有毒ガス、降下火砕物に対しては、手動で外気取入ダンパ及び排風機出口ダンパを閉操作し、事故時運転モードへ切り替えることで外気を遮断する設計とする。

〔空調設備の仕様〕

- ・中央制御室送風機 2台 約80,000m³/h/台
- ・中央制御室排風機 2台 約5,000m³/h/台
- ・中央制御室空気調和装置 2台（バグフィルタ、冷却コイル、加熱コイル）
- ・中央制御室再循環送風機 2台 約8,000m³/h/台
- ・中央制御室再循環フィルタ装置
 粒子捕集効率 99.9%以上（0.5μm粒子）
 よう素除去効率 90%以上（相対湿度70%以下において）

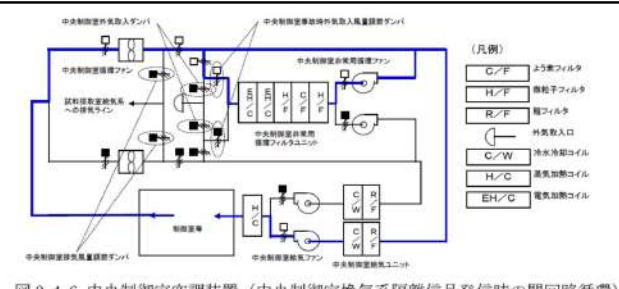


図 2.4.6 中央制御室空調装置（中央制御室換気系隔離信号発信時の閉回路循環）

外部火災によるばい煙や有毒ガス、降下火砕物に対しては、手動で外気取入ダンパ及び排気風量調節ダンパを開操作し、閉回路循環運転へ切り替えることで外気を遮断する設計とする。

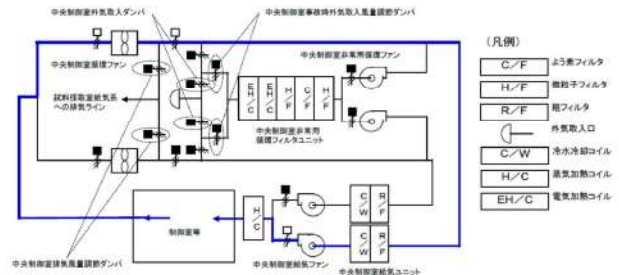


図 2.4.7 中央制御室空調装置（通常時閉回路循環）

〔空調設備の仕様〕

- ・中央制御室給気ファン 2台 約500m³/min
- ・中央制御室循環ファン 2台 約500m³/min
- ・中央制御室給気ユニット 2台（粗フィルタ、冷却水冷却コイル）
- ・中央制御室非常用循環ファン 2台 容量：約85m³/min
- ・中央制御室非常用循環フィルタユニット
 粒子除去効率 99%以上（0.7μm粒子）
 よう素除去効率 95%以上（相対湿度95%、温度30℃において）

ユニット
 ・少量外気取入ダンパ
 ・事故時外気取入風量調節ダンパ

【大飯】
 記載表現の相違
 ・女川実績の反映
 【女川】
 名称の相違
 ・前述済は省略

【大飯、女川】
 名称の相違
 ・前述済は省略
 【大飯、女川】
 設備仕様の相違
 ・大飯、女川、泊の設備仕様は異なるが、中央制御室内の環境を維持する設計という点で同等である。

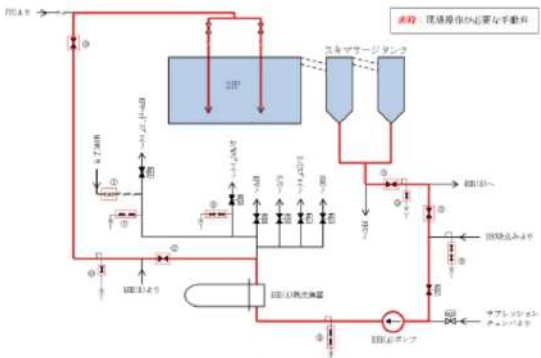
赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添1）

| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--|--|--|---|
| <p>比較のため、2.4.3.1項より抜粋して記載箇所入替</p> <p>c. 溢水：中央制御室に溢水源がないことを確認しているが、火災のための消火栓による溢水については、内部溢水で評価を実施し、問題ないことを確認している。</p> | <p>(e) 内部溢水による中央制御室内設備操作性への影響 中央制御室には、溢水源となる機器を設けない設計とする。また、火災が発生したとしても、運転員が火災状況を確認し、二酸化炭素消火器にて初期消火を行うことで、消火水による溢水により運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>(f) 凍結による中央制御室内環境への影響 中央制御室換気空調系により環境温度が維持されることで、運転操作に影響を与えず容易に操作ができる設計とする。</p> | <p>(e) 内部溢水による中央制御室内設備操作性への影響 中央制御室には、溢水源となる機器を設けない設計とする。また、火災が発生したとしても、運転員が火災状況を確認し、二酸化炭素消火器及び粉末消火器にて初期消火を行うことで、消火水による溢水により運転操作に影響を与えず容易に操作ができる設計とする。</p> <p>(f) 凍結による中央制御室内環境への影響 中央制御室空調装置により環境温度が維持されることで、運転操作に影響を与えず容易に操作ができる設計とする。</p> | <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 運用の相違 ・消火器の種類</p> <p>【大飯】 記載内容の相違 ・女川実績反映：凍結</p> <p>【女川】 名称の相違 ・中央制御室換気空調系⇔中央制御室空調装置</p> |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添1）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--|--|--|--|
| <p>2.6 現場操作の容易性</p> <p>2.6.1 設計基準事象において求められる現場操作</p> | <p>(2) 中央制御室以外における操作の容易性（環境条件に対する考慮）</p> <p>a. 設計基準事象において求められる現場操作</p> <p>(a) 残留熱除去系原子炉停止時冷却モード吸込ラインの開操作 残留熱除去系の原子炉停止時冷却モードの吸込ラインは、区分Ⅰの電源から供給される隔離弁と、区分Ⅱの電源から供給される隔離弁が直列に配置されていることから、火災や単一故障等の原因により、いずれか片方の電源が喪失すると現場での手動操作（原子炉建屋地下1階及び地下2階）が必要となる。</p> <p>(b) 原子炉保護系電源「断」操作 原子炉保護系の論理回路はフェイル・セーフの設計としており、火災により電源が喪失した場合、機能が喪失することはないが、万一火災による混触が発生し、原子炉がスクラムすべき状況において励磁状態のままとなった場合、現場（制御建屋地下1階）の電源断操作によりスクラムさせることとしている。</p> <p>(c) 内部溢水想定破損時の系統切替操作 内部溢水の想定破損により、燃料プール補給水系及び燃料プール冷却浄化系の機能が喪失した場合、使用済燃料プールの給水冷却機能を維持する必要があるため、残留熱除去系への切替操作が必要となる。</p>  <p>第2.3-6図 残留熱除去系による使用済燃料プール冷却時の系統（A系の場合）</p> | <p>(2) 中央制御室以外における操作の容易性（環境条件に対する考慮）</p> <p>a. 設計基準事象において求められる現場操作</p> | <p>【大飯】 項目名称の相違 ・女川実績の反映</p> <p>【女川】 操作の相違 ・本現場操作は泊では行わない。</p> <p>【女川】 操作の相違 ・本現場操作は泊では行わない。</p> <p>【女川】 操作の相違 ・本現場操作は泊では行わない。</p> |

泊発電所3号炉 D B基準適合性 比較表

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添1）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---------|------|-----|------|-----------|----------|----------|---------|-------|--|-----|------|-----------|----------|----------|---------|-------|--|-----|------|-----------|--------|-----------|---------|-----------|----------|------------|--------|------------|--------|------------|---------|------------|---------|------------|--------|------------|--------|-----------|--------|-----------|--------|----------|---------|----------|---------|----------|---------|----------|---------|-------|--|-----|------|-----------|--------|-----------|---------|-----------|----------|------------|--------|------------|--------|------------|---------|------------|---------|------------|--------|------------|--------|----------|---------|----------|---------|----------|---------|----------|---------|--|--|
| | <p>第 2.3-1 表 燃料プール補給水系機能喪失時操作対象弁 (残留熱除去系(A)へ切替する場合)</p> <table border="1" data-bbox="882 217 1191 300"> <thead> <tr> <th colspan="2">操作対象弁</th> </tr> <tr> <th>弁番号</th> <th>設置場所</th> </tr> </thead> <tbody> <tr> <td>E11-F030A</td> <td>R/A MB1F</td> </tr> <tr> <td>G41-F023</td> <td>R/A M2F</td> </tr> </tbody> </table> <p>第 2.3-2 表 燃料プール補給水系機能喪失時操作対象弁 (残留熱除去系(B)へ切替する場合)</p> <table border="1" data-bbox="882 354 1191 437"> <thead> <tr> <th colspan="2">操作対象弁</th> </tr> <tr> <th>弁番号</th> <th>設置場所</th> </tr> </thead> <tbody> <tr> <td>E11-F030B</td> <td>R/A MB1F</td> </tr> <tr> <td>G41-F023</td> <td>R/A M2F</td> </tr> </tbody> </table> <p>第 2.3-3 表 燃料プール冷却浄化系機能喪失時操作対象弁 (残留熱除去系(A)へ切替する場合)</p> <table border="1" data-bbox="882 533 1236 935"> <thead> <tr> <th colspan="2">操作対象弁</th> </tr> <tr> <th>弁番号</th> <th>設置場所</th> </tr> </thead> <tbody> <tr><td>E11-F025A</td><td>R/A 1F</td></tr> <tr><td>E11-F029A</td><td>R/A B3F</td></tr> <tr><td>E11-F030A</td><td>R/A MB1F</td></tr> <tr><td>E11-F503AX</td><td>R/A 1F</td></tr> <tr><td>E11-F503AY</td><td>R/A 1F</td></tr> <tr><td>E11-F506AX</td><td>R/A B2F</td></tr> <tr><td>E11-F506AY</td><td>R/A B2F</td></tr> <tr><td>E11-F512AX</td><td>R/A 1F</td></tr> <tr><td>E11-F512AY</td><td>R/A 1F</td></tr> <tr><td>E11-F513X</td><td>R/A 1F</td></tr> <tr><td>E11-F513Y</td><td>R/A 1F</td></tr> <tr><td>G41-F022</td><td>R/A M2F</td></tr> <tr><td>G41-F023</td><td>R/A M2F</td></tr> <tr><td>G41-F520</td><td>R/A M2F</td></tr> <tr><td>G41-F523</td><td>R/A M2F</td></tr> </tbody> </table> <p>第 2.3-4 表 燃料プール冷却浄化系機能喪失時操作対象弁 (残留熱除去系(B)へ切替する場合)</p> <table border="1" data-bbox="882 1040 1252 1417"> <thead> <tr> <th colspan="2">操作対象弁</th> </tr> <tr> <th>弁番号</th> <th>設置場所</th> </tr> </thead> <tbody> <tr><td>E11-F025B</td><td>R/A 1F</td></tr> <tr><td>E11-F029B</td><td>R/A B3F</td></tr> <tr><td>E11-F030B</td><td>R/A MB1F</td></tr> <tr><td>E11-F503BX</td><td>R/A 1F</td></tr> <tr><td>E11-F503BY</td><td>R/A 1F</td></tr> <tr><td>E11-F506BX</td><td>R/A B2F</td></tr> <tr><td>E11-F506BY</td><td>R/A B2F</td></tr> <tr><td>E11-F512BX</td><td>R/A 1F</td></tr> <tr><td>E11-F512BY</td><td>R/A 1F</td></tr> <tr><td>G41-F022</td><td>R/A M2F</td></tr> <tr><td>G41-F023</td><td>R/A M2F</td></tr> <tr><td>G41-F520</td><td>R/A M2F</td></tr> <tr><td>G41-F523</td><td>R/A M2F</td></tr> </tbody> </table> | 操作対象弁 | | 弁番号 | 設置場所 | E11-F030A | R/A MB1F | G41-F023 | R/A M2F | 操作対象弁 | | 弁番号 | 設置場所 | E11-F030B | R/A MB1F | G41-F023 | R/A M2F | 操作対象弁 | | 弁番号 | 設置場所 | E11-F025A | R/A 1F | E11-F029A | R/A B3F | E11-F030A | R/A MB1F | E11-F503AX | R/A 1F | E11-F503AY | R/A 1F | E11-F506AX | R/A B2F | E11-F506AY | R/A B2F | E11-F512AX | R/A 1F | E11-F512AY | R/A 1F | E11-F513X | R/A 1F | E11-F513Y | R/A 1F | G41-F022 | R/A M2F | G41-F023 | R/A M2F | G41-F520 | R/A M2F | G41-F523 | R/A M2F | 操作対象弁 | | 弁番号 | 設置場所 | E11-F025B | R/A 1F | E11-F029B | R/A B3F | E11-F030B | R/A MB1F | E11-F503BX | R/A 1F | E11-F503BY | R/A 1F | E11-F506BX | R/A B2F | E11-F506BY | R/A B2F | E11-F512BX | R/A 1F | E11-F512BY | R/A 1F | G41-F022 | R/A M2F | G41-F023 | R/A M2F | G41-F520 | R/A M2F | G41-F523 | R/A M2F | | |
| 操作対象弁 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| E11-F030A | R/A MB1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G41-F023 | R/A M2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 操作対象弁 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| E11-F030B | R/A MB1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G41-F023 | R/A M2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 操作対象弁 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 弁番号 | 設置場所 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F025A | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F029A | R/A B3F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F030A | R/A MB1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F503AX | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F503AY | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F506AX | R/A B2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F506AY | R/A B2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F512AX | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F512AY | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F513X | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F513Y | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G41-F022 | R/A M2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G41-F023 | R/A M2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G41-F520 | R/A M2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G41-F523 | R/A M2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 操作対象弁 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 弁番号 | 設置場所 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F025B | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F029B | R/A B3F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F030B | R/A MB1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F503BX | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F503BY | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F506BX | R/A B2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F506BY | R/A B2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F512BX | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F512BY | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G41-F022 | R/A M2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G41-F023 | R/A M2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G41-F520 | R/A M2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G41-F523 | R/A M2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
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 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添1）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|---|--|---|--|
| <p>a. 蒸気発生器伝熱管破損時における伝熱管破損側蒸気発生器の主蒸気隔離弁増し締め操作 【操作対象】主蒸気隔離弁 【操作場所】原子炉周辺建屋 E.L.26.0m 主蒸気・主給水管室</p> <p>b. 全交流動力電源喪失時における2次系強制冷却のための主蒸気逃がし弁操作、空冷式非常用発電装置からの給電操作及びディーゼル発電機復旧操作</p> <p>(a) 主蒸気逃がし弁操作 【操作対象】主蒸気逃がし弁 【操作場所】原子炉周辺建屋 E.L.26.0m 主蒸気・主給水管室</p> <p>(b) 空冷式非常用発電装置からの給電操作 【操作対象】遮断器 【操作場所】制御建屋 E.L.15.8m 安全補機開閉器室</p> <p>(c) ディーゼル発電機復旧操作 【操作対象】ディーゼル発電機及びディーゼル発電機操作盤 【操作場所】原子炉周辺建屋 E.L.10.0m ディーゼル発電機室</p> | <p>(d) 全交流動力電源喪失時の現場操作</p> <p>全交流動力電源喪失時で、非常用ディーゼル発電機(高圧炉心スプレイ系ディーゼル発電機を含む。)の中央制御室での起動操作に失敗した場合は、以下の現場操作を実施する。</p> <p>① 非常用ディーゼル発電機(高圧炉心スプレイ系ディーゼル発電機を含む。)の起動失敗確認及び現場盤での起動操作</p> <p>なお、重大事故等時の対応として、以下の現場操作を必要とする。</p> <p>・全交流動力電源喪失時における計測制御電源室(制御建屋地下1階)での負荷抑制操作</p> | <p>(a) 蒸気発生器伝熱管破損時における主蒸気隔離弁増し締め操作 【操作対象】主蒸気隔離弁 【操作場所】周辺補機棟 T.P.29.3m 主蒸気管室 蒸気発生器伝熱管破損時に2次冷却系への放射性物質の拡散を回避するため、破損側蒸気発生器につながる主蒸気隔離弁を中央制御室での遠隔操作により閉止する。主蒸気隔離弁の閉止機能の信頼性向上を図るため、閉弁操作後現場で同弁を増締めすることとしている。</p> <p>(b) 全交流動力電源喪失時の現場操作</p> <p>全交流動力電源喪失時で、ディーゼル発電機の中央制御室での起動操作に失敗した場合は、以下の現場操作を実施する。</p> <p>① 2次冷却系強制冷却のための主蒸気逃がし弁操作 【操作対象】主蒸気逃がし弁 【操作場所】周辺補機棟 T.P.29.3m、主蒸気管室</p> <p>② 代替非常用発電機からの給電操作 【操作対象】代替非常用発電機受電遮断器 【操作場所】原子炉補助建屋 T.P.10.3m、安全補機開閉器室</p> <p>③ ディーゼル発電機復旧操作 【操作対象】ディーゼル発電機 【操作場所】ディーゼル発電機建屋 T.P.10.3m、ディーゼル発電機室</p> <p>なお、重大事故等時の対応として、以下の現場操作を必要とする。</p> <p>・全交流動力電源喪失時における安全補機開閉器室(原子炉補助建屋 T.P.10.3m)での負荷抑制操作</p> | <p>【女川】 記載充実(大飯参照)</p> <p>【大飯】 記載表現の相違</p> <p>【大飯】 建屋配置の相違</p> <p>【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【女川】 名称の相違 ・非常用ディーゼル発電機⇄ディーゼル発電機</p> <p>【女川】 記載充実(大飯参照)</p> <p>【大飯】 記載表現の相違</p> <p>【大飯】 建屋配置の相違</p> <p>【大飯】 名称の相違 ・空冷式非常用発電装置⇄代替非常用発電機</p> <p>【女川】 記載表現の相違</p> <p>【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【女川】 建屋配置の相違</p> |

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第10条 誤操作の防止（別添1）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--|--|---|--|
| <p>2.6.2 現場操作の環境に影響を与える可能性のある事象に対する考慮</p> <p>比較のため、2.6項から記載箇所入替</p> <p>運転中の異常な過渡変化及び設計基準事故等発生時に必要な現場操作は、当該操作が必要となった事象が同時にもたらす環境条件を考慮しても、現場にて容易に実施可能な設計とする。</p> <p>なお、作業用照明を、中央制御室退避時に必要な操作を行う中央制御室外原子炉停止盤、設計基準事故が発生した場合に現場操作の可能性のある主蒸気・主給水管室、全交流動力電源喪失発生時に復旧対応が必要となる安全補機開閉器室等、及び各機器へのアクセスルートに設置することにより、設計基準事故時に作業が必要な場所の照明を確保する。</p> | <p>b. 中央制御室以外の環境に影響を与える可能性のある事象に対する考慮</p> <p>(a) 残留熱除去系原子炉停止時冷却モード吸込ラインの開操作</p> <p>① 残留熱除去系原子炉停止時冷却モードは設計基準事故時の事故収束後に冷温停止とするための機能であることから、機能要求まで時間的余裕がある。よって、火災に起因して操作場所の温度は上昇するが、操作場所の放射線量は低く、消火活動により室内温度を低下させ、人がアクセス可能な環境とすることにより、弁操作に必要な環境を確保する。</p> <p>② 残留熱除去系原子炉停止時冷却モードは、運転時の異常な過渡変化及び設計基準事故時の事故収束後に冷温停止とするための機能であることから、機能要求まで時間的猶予がある。よって、運転時の異常な過渡変化及び設計基準事故時に起因して、弁操作場所の温度は上昇するが、残留熱除去系サブプレッションプール水冷却モードにより、サブプレッションプール水温を低下させることにより、室内温度を低下させ、人がアクセス可能な環境とすることにより、弁操作に必要な環境を確保する。</p> <p>残留熱除去系原子炉停止時冷却モードが必要な状況下において、原子炉冷却材喪失事故後環境における、操作場所での環境温度（約50℃）や放射線量（約15mSv/h）を考慮しても、操作可能であることを確認している。</p> <p>弁の手動開操作時は、操作用ハンドル機構及び弁開度表示を当該弁に設置することにより、操作及び操作が実施されたことの現場確認が容易に実施可能な設計とする。また、当該弁の電源切操作についても、当該モータコントロールセンタで電源切状態を確認できることにより、操作が実施されたことの確認は現場にて容易に可能な設計とする。</p> | <p>b. 中央制御室以外の環境に影響を与える可能性のある事象に対する考慮</p> <p>運転中の異常な過渡変化及び設計基準事故等発生時に必要な現場操作は、当該操作が必要となった事象が同時にもたらす環境条件を考慮しても、現場にて容易に実施可能な設計とする。</p> <p>なお、作業用照明を、中央制御室退避時に必要な操作を行う中央制御室外原子炉停止盤、設計基準事故が発生した場合に現場操作の可能性のある主蒸気管室、全交流動力電源喪失発生時に復旧対応が必要となる安全補機開閉器室等及び各機器へのアクセスルートに設置することにより、設計基準事故時に作業が必要な場所の照明を確保する。</p> | <p>【大飯】 項目名称の相違 ・女川実績の反映</p> <p>【女川】 記載充実（大飯参照）</p> <p>【大飯】 名称の相違 ・主蒸気・主給水管室 ⇔主蒸気管室</p> <p>【大飯】 記載表現の相違 「。」の有無</p> <p>【女川】 操作の相違 ・本現場操作は泊では行わない。</p> |

泊発電所3号炉 DB基準適合性 比較表

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第10条 誤操作の防止（別添1）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--------------|--|---------|---|
| | <p>(b) 原子炉保護系電源「断」操作 火災による原子炉保護系論理回路の励磁状態を想定するため、想定火災としては原子炉保護系盤を発火箇所とする。 それに対して操作場所である制御建屋地下1階は、発火箇所である中央制御室と位置的分散がなされており、想定される環境条件においてもアクセス性に影響はなく、操作可能である。 現場において電源「断」操作を行う盤に付設された盤名称、盤番号、機器名称及び機器番号が記載された銘板を設置することにより、使用する手順書に記載されている盤名称、盤番号、機器名称及び機器番号を照合できるようにし、操作対象であることを確認してから操作を行うことで、誤操作防止を図る。</p> <p>(c) 内部溢水想定破損時の系統切替操作 溢水事象発生後の環境条件（水位、温度、線量、化学薬品、照明、感電、漂流物）の観点から評価し、アクセス性を確保し、操作可能な設計とする。 現場弁等を操作する際に使用する工具については、各種弁の仕様や構造に応じた適正な工具を中央制御室内及び管理区域内に配備し、現場弁の操作が容易に実施可能とする。</p> | | <p>【女川】 操作の相違 ・本現場操作は泊では行わない。</p> <p>【女川】 操作の相違 ・本現場操作は泊では行わない。</p> |

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第10条 誤操作の防止（別添1）

| 大阪発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--|---|--|--|
| <p>a. 蒸気発生器伝熱管破損時の主蒸気隔離弁操作（対応状況一覧は表1参照） 当該操作は、各事象が発生後、現場にて実施するものであるが、当該操作が必要となった事象が同時にもたらす環境条件を考慮しても、当該操作場所にて容易に操作可能な設計としており、いずれの場合でもアクセスルートを含めて現場操作場所の操作性（操作の容易性）に影響を与えることはない。</p> <p>b. 全交流動力電源喪失時の主蒸気逃がし弁操作、空冷式非常用発電装置給電操作及びディーゼル発電機復旧操作（対応状況一覧は表2参照） 当該操作は、全交流動力電源喪失時に空冷式非常用発電装置からの受電までの間の操作を現場にて実施するものであるが、当該操作が必要となった事象が同時にもたらす環境条件を考慮しても当該操作場所にて容易に操作可能な設計としており、いずれの場合でもアクセスルートを含めて現場操作場所での操作性（操作の容易性）に影響を与えることはない。</p> | <p>(d) 全交流動力電源喪失時の現場操作 全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が常設代替交流電源設備から開始されるまでの間においても操作できるように、蓄電池(非常用)から受電する直流照明兼非常用照明を設置しており、アクセス性を確保し、操作可能な設計とする。</p> <p>また、現場作業を行う運転員はヘッドライトと懐中電灯を持って移動する。 全交流動力電源喪失時に負荷抑制操作を実施する際は、当該直流主母線盤で電源切状態を確認できることにより、操作が実施されたことの確認は現場にて容易に可能な設計とする。なお、現場において操作を行う盤に付設された機器名称・機器番号が記載された銘板と使用する手順書に記載されている機器名称・機器番号を照合し、操作対象であることを確認してから操作を行うことで、誤操作防止を図る。</p> | <p>(a) 蒸気発生器伝熱管破損時における主蒸気隔離弁増し締め操作 当該操作は、各事象が発生後、現場にて実施するものであるが、当該操作が必要となった事象が同時にもたらす環境条件を考慮しても、当該操作場所にて容易に操作可能な設計としており、いずれの場合でもアクセスルートを含めて現場操作場所の操作性（操作の容易性）に影響を与えることはない。 主蒸気隔離弁増し締め操作を実施する際は、当該弁で状態を確認できることにより、操作が実施されたことの確認は現場にて容易に可能な設計とする。 なお、現場において操作を行う弁に付設された機器名称・機器番号が記載された銘板と使用する手順書に記載されている機器名称・機器番号を照合し、操作対象であることを確認してから操作を行うことで、誤操作防止を図る。</p> <p>(b) 全交流動力電源喪失時の現場操作 全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が代替非常用発電機から開始されるまでの間においても操作できるように、当該操作が必要となった事象が同時にもたらす環境条件を考慮しても、当該操作場所にて容易に操作可能な設計としており、いずれの場合でもアクセスルートを含めて現場操作場所での操作性（操作の容易性）に影響を与えることはない。 また、現場作業を行う運転員はヘッドライト又は懐中電灯を持って移動する。 全交流動力電源喪失時に操作を実施する際は、当該弁、遮断器及び盤で状態を確認できることにより、操作が実施されたことの確認は現場にて容易に可能な設計とする。なお、現場において操作を行う弁、遮断器及び盤に付設された機器名称・機器番号が記載された銘板と使用する手順書に記載されている機器名称・機器番号を照合し、操作対象であることを確認してから操作を行うことで、誤操作防止を図る。</p> | <p>【女川】 記載充実（大阪参照） 【大阪】 記載表現の相違</p> <p>【大阪】 記載内容の相違 ・女川実績の反映 環境条件に対する評価結果を記載</p> <p>【大阪】 記載表現の相違 ・女川実績の反映</p> <p>【大阪、女川】 名称の相違 ・空冷式非常用発電装置⇨常設代替交流電源設備⇨代替非常用発電機</p> <p>【女川】 対応の相違 ・本現場操作は全交流動力電源喪失を起因事象としたものであり、女川は環境条件として照明喪失のみ選定している。泊は「有意な可能性をもって同時にもたらされる環境条件」として、想定される全ての環境条件を考慮しており、大阪と同様の考え方である。</p> <p>【女川】 記載表現の相違 【女川】 操作対象の相違</p> |

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| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--|--|--|---|
| <p>c. 中央制御室外原子炉停止盤操作（対応状況一覧は表3参照）</p> <p>火災や内部溢水等の事象が発生し、また同時にもたらされる環境条件を考慮しても中央制御室の機能は維持されるため、この場合中央制御室外原子炉停止盤操作は必要とならない。</p> | <p>(e) 中央制御室外原子炉停止操作</p> <p>火災その他の異常な事態により中央制御室内での操作が困難な場合においても、中央制御室外原子炉停止装置は中央制御室から離れた場所に設置し位置的に分散されているため、想定される環境条件においてもアクセス性に影響はなく、操作可能である。</p> <p>現場にて操作を行う制御盤に付設された機器名称・機器番号が記載された銘板と使用する手順書に記載されている機器名称・機器番号を照合し、操作対象であることを確認してから操作を行うことで、誤操作防止を図る。また、本操作を行う制御盤に設置されている計器を確認することにより、操作が実施されたことの確認も容易である。</p> <p>(f) 中央制御室外気取入ダンパの開操作</p> <p>外気取入操作が必要となる中央制御室内の二酸化炭素濃度の上昇までには時間的余裕があることから、全域ガス消火設備による消火後、消火ガスを排出するとともに、室内温度を低下させ、人がアクセス可能な環境とすることにより、ダンパ操作に必要な環境を確保する。</p> <p>ダンパの手動開操作時は、操作用ハンドル機構及び開度表示を当該ダンパに設置することにより、操作及び操作が実施されたことの現場確認が容易に実施可能な設計とする。また、電源切操作についても、当該モータコントロールセンタで電源切状態を確認できることにより、操作が実施されたことの確認は現場にて容易に可能な設計とする。</p> <p>なお、ダンパの手動開操作及び電源切操作時には、対象設備に付設された機器名称・機器番号が記載された銘板を設置することにより、使用する手順書に記載されている機器名称・機器番号を照合できるようにし、操作対象であることを確認してから操作を行うことで、誤操作防止を図る。</p> | <p>(c) 中央制御室外原子炉停止盤操作</p> <p>火災その他の異常な事態により中央制御室内での操作が困難な場合においても、当該操作が必要となった事象が同時にもたらす環境条件を考慮しても、当該操作場所にて容易に操作可能な設計としており、いずれの場合でもアクセスルートを含めて現場操作場所での操作性（操作の容易性）に影響を与えることはない。</p> <p>現場にて操作を行う中央制御室外原子炉停止盤に付設された機器名称・機器番号が記載された銘板と使用する手順書に記載されている機器名称・機器番号を照合し、操作対象であることを確認してから操作を行うことで、誤操作防止を図る。また、本操作を行う中央制御室外原子炉停止盤に設置されている計器を確認することにより、操作が実施されたことの確認も容易である。</p> | <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 記載表現の相違</p> <p>【大飯】 対応の相違 ・女川実績の反映</p> <p>【女川】 対応の相違 ・女川は環境条件として内部火災を想定し、中央制御室との位置的分散により操作可能であることを記載している。泊は「有意な可能性をもって同時にもたらされる環境条件」として、その他に想定される全ての環境条件を考慮している。</p> <p>【女川】 名称の相違 ・制御盤⇄中央制御室原子炉停止盤</p> <p>【女川】 操作の相違 ・本現場操作は泊では行わない。</p> |

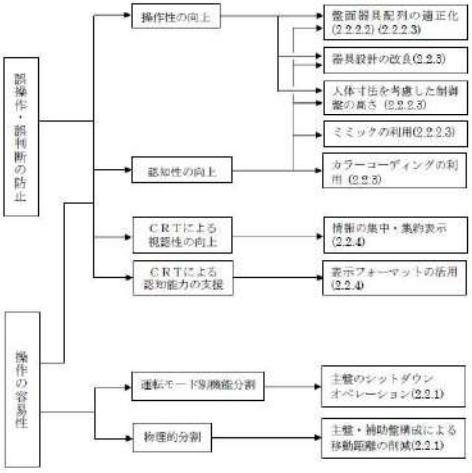
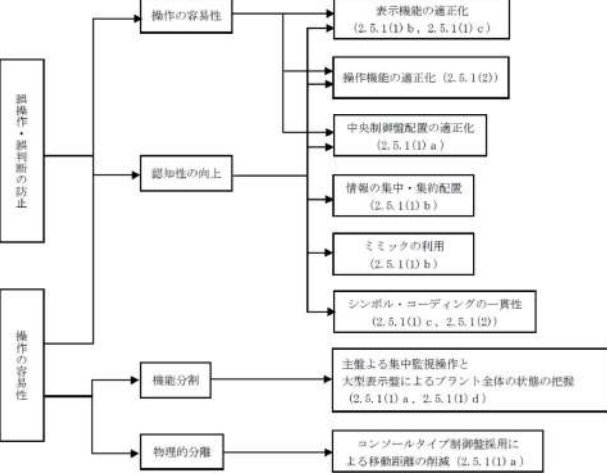
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第10条 誤操作の防止（別添1）

| 大阪発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|---------------------------|---|---|--|
| <p>2.2 中央制御盤の誤操作防止対策等</p> | <p>2.4 誤操作防止対策 2.4.1 中央制御室の誤操作防止対策</p> <p>発電用原子炉の設計基準事故等の対応操作に必要な各種指示の確認及び発電用原子炉を安全に停止するために必要な安全保護系並びに工学的安全施設関係の操作盤は、中央制御室から操作が可能な設計とする。</p> <p>また、中央制御室の制御盤は、盤面器具（指示計、記録計、操作器具、表示装置、警報表示）を系統毎にグループ化して、主制御盤に集約し、操作方法に統一性を持たせ、運転員の動線や運転員間のコミュニケーションを考慮した配置とすることにより、情報共有及びプラント設備全体の情報把握を行うことで、通常運転、設計基準事故等時において運転員の誤操作を防止するとともに、容易に操作ができる設計とする。</p> <p>制御盤等の設計方針に関する実運用への反映について別紙3に示す。</p> <p>なお、運転開始以前に発生した、スリーマイルアイランド事故等から得られた運転員の誤操作防止に関する知見を反映しており、重要な指示計及び記録計の識別表示、警報の重要度に応じた色分け、ディスプレイの設置、操作器具の識別等を行っている。</p> <p>運転員の誤操作等による異常状態が発生した場合は、設備異常を示す警報を発することにより運転員が措置し得る設計としている。もし、運転員によるこれらの修正動作が取られない場合にも、発電用原子炉固有の安全性及び安全保護回路の動作により、過渡変化を収束させる設計としている。</p> | <p>2.5 誤操作防止対策 2.5.1 中央制御室の誤操作防止対策</p> <p>発電用原子炉の設計基準事故等の対応操作に必要な各種指示の確認及び発電用原子炉を安全に停止するために必要な安全保護系並びに工学的安全施設関係の操作盤は、中央制御室から操作が可能な設計とする。</p> <p>また、中央制御盤は、盤面器具及び盤面表示（指示計、記録計、操作器具、警報表示）を系統ごとにグループ化して、主盤に集約し、操作方法に統一性を持たせ、運転員の動線や運転員間のコミュニケーションを考慮した配置とすることにより、情報共有及びプラント設備全体の情報把握を行うことで、通常運転、設計基準事故等時において運転員の誤操作を防止するとともに、容易に操作ができる設計とする。</p> <p>制御盤等の設計方針に関する実運用への反映について別紙3に示す。</p> <p>なお、運転開始以前に発生した、スリーマイルアイランド事故等から得られた運転員の誤操作防止に関する知見を反映しており、重要な指示計及び記録計の識別表示、警報の重要度に応じた色分け、ディスプレイの設置、操作器具の識別等を行っている。</p> <p>運転員の誤操作等による異常状態が発生した場合は、設備異常を示す警報を発することにより運転員が措置し得る設計としている。もし、運転員によるこれらの修正動作が取られない場合にも、発電用原子炉固有の安全性及び安全保護回路の動作により、過渡変化を収束させる設計としている。</p> | <p>【大阪】 項目名称の相違 ・女川実績の反映</p> <p>【大阪】 記載内容の相違 ・女川実績の反映</p> <p>【女川】 記載表現の相違 ・中央制御室の制御盤⇒中央制御盤</p> <p>【女川】 設備の相違 ・泊の「盤面器具」はタッチディスプレイ本体及びハードウェアの操作器・指示計等を指す。 ・泊の「盤面表示」はソフトウェアの操作器・指示計等を指す。 ・泊の「操作器」はハードウェアの操作器及びソフトウェアの操作器を指す。</p> <p>【女川】 名称の相違 ・主制御盤⇔主盤</p> |

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第10条 誤操作の防止（別添1）

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|---|-------------|--|---|
| <p>制御盤は次のフロー図に示す基本方針に基づき、誤操作防止並びに操作の容易性に関するハード面の要求事項を考慮し設計しており、以降にその詳細を示す。</p>  | | <p>制御盤は次のフロー図に示す基本方針に基づき、誤操作防止並びに操作の容易性に関するハード面の要求事項を考慮し設計しており、以降にその詳細を示す。</p>  | <p>【女川】 記載充実（大飯参照）</p> <p>【大飯】 記載内容の相違 ・フロー図の内容は、泊3号炉と同様に新型中央制御盤を採用している高浜1/2号炉、美浜3号炉と同様である。</p> |
| <p>図 2.5.1.1 誤操作防止、操作容易性に関する基本フロー図</p> | | | |

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|---|--|---|---|
| <p>2.2.1 中央制御盤の配列</p> <ul style="list-style-type: none"> 原子炉運転モードを考慮し、通常運転時に使用する器具を配置する主盤と、その両端に起動停止、事故時に使用する器具を配置する補助盤に分割することで、運転員の移動距離を削減している。 主盤は、椅子に座った状態で操作が可能となるよう操作器のあるデスクを低くしている。 中央制御室の監視操作エリアは、すべての運転状態において運転員がそれぞれの運転タスクを行えるよう区分等が考慮されている。 中央制御室の監視操作エリアは、運転員相互の視認性及び運転員間のコミュニケーションを考慮して配置されている。  <p>タービン発電機制御盤 3号炉の例 炉内盤 保安装置盤 椅子付運転員 主機運転員</p> | <p>(1) 視認性 a. 盤面配置</p> <p>(a) 中央制御室制御盤は、主制御盤及び補助盤から構成されており、プラントの起動、停止及び通常運転時の監視・操作が必要なものに加え、監視・操作頻度が高いもの、また、プラントの異常時にプラントを安全に保つために必要なものについては、主制御盤に配置する。主制御盤は、左側から安全系、原子炉系、タービン・所内電源系の順で配置し、それぞれの盤面器具を集約して配列する。上記以外で中央制御室に配置することで運転上のメリットが高いものについては、補助盤に配置する。</p> <p>(b) 主制御盤は、集中して運転操作及び監視が可能であり、運転員の動線やコミュニケーションを考慮した配置となっている。</p>  <p>原子炉運転員 タービン発電機制御盤 主盤 保安装置</p> <p>第 2.4.1-1 図 制御盤の配置</p> | <p>(1) 視認性 a. 盤面配置</p> <ul style="list-style-type: none"> 中央制御室は、運転業務を行うエリアと保守業務を行うエリアに区分し、運転員と保守員の輻輳を回避している。 主盤は、椅子に座った状態で操作が可能となるよう安全系 FDP、常用系 VDU、警報用 VDU を、運転員が監視操作し易い位置に集約して設置している。 主盤は、集中して運転操作及び監視が可能であり、中央制御室の運転業務を行うエリアは、運転員相互の視認性及び運転員間のコミュニケーションを考慮して、主盤、運転指令卓及び大型表示盤が配置されている。  <p>監視操作を行うための安全系 FDP、常用系 VDU、警報用 VDU を集約配置 主盤等、運転指令卓、大型表示盤は、視認性、操作性、運転員間のコミュニケーションを考慮して配置（距離、コンソール曲げ角度、コンソール高さ等）</p> <p>①大型表示盤 ②主盤 ③運転指令卓 ④保守用制御盤</p> <p>運転業務を行うエリア(右)と保守業務を行うエリア(左)を分けて配置</p> | <p>【大飯】 項目名称の相違 ・女川実績の反映 【大飯、女川】 設備の相違②：新型中央制御盤 ・泊は監視・操作の機能を主盤に集約しており、補助盤はない。</p> <p>【女川】 名称の相違 ・主制御盤⇄主盤 【大飯】 記載表現の相違 【女川】 設備の相違 ・泊3号炉は監視・操作の機能を主盤に集約しており、主盤⇄補助盤の移動は不要。 ・運転指令卓、大型表示盤は泊のみに設置。</p> |

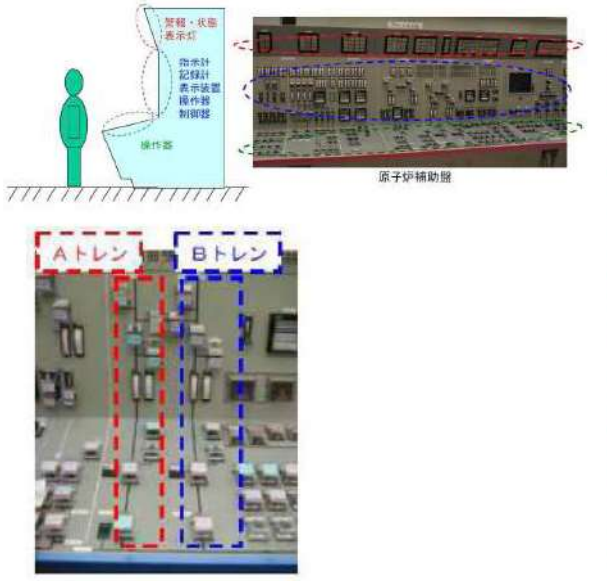


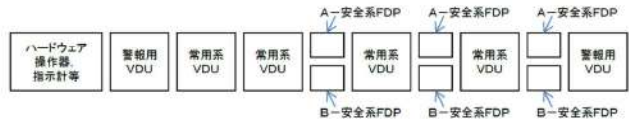
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|---|------------------|---|--|
| <p>2.2.2 盤面器具の配列</p> <p>2.2.2.1 中央盤取付器具の範囲</p> <p>中央盤に設置する操作器、制御器及び監視計器は下記のとおりとする。</p> <p>①プラントの起動、通常運転、停止時の監視、操作が必要で、かつ監視、操作頻度の高いもの。 （主蒸気・給水系、1次冷却系、化学体積制御系、余熱除去系等）</p> <p>②プラントの異常時、プラントを安全に保つために必要なもの。 （主蒸気・給水系、1次冷却系、化学体積制御系、安全注入系、余熱除去系、格納容器スプレイ系等）</p> <p>③その他、設置した場合、運転上のメリットが大きいもの。 （換気空調系、復水系、循環水系等）</p> <div data-bbox="123 909 672 1197"> <p>タービン発電機補助盤 ① 主盤 ② 原子炉補助盤 ③</p> <p>プラントの起動、通常運転、停止時の監視、操作が必要で、かつ監視、操作頻度の高いもの プラントの異常時、プラントを安全に保つために必要なもの</p> <p>換気空調装置 制御盤 全景</p> <p>その他、設置した場合、運転上のメリットが大きいもの</p> </div> | <p>b. 盤面器具配列</p> | <p>b. 盤面器具及び盤面表示配列</p> <p>(a) 中央制御盤に設置する盤面器具及び盤面表示の範囲</p> <p>中央制御盤に設置する操作器、制御器及び監視計器は下記のとおりとする。</p> <p>①プラントの起動、通常運転、停止時の監視、操作が必要で、かつ監視、操作頻度の高いもの。 （主蒸気・給水系、1次冷却系、化学体積制御系、余熱除去系等）</p> <p>②プラントの異常時、プラントを安全に保つために必要なもの。 （主蒸気・給水系、1次冷却系、化学体積制御系、安全注入系、余熱除去系、格納容器スプレイ系等）</p> <p>③その他、設置した場合、運転上のメリットが大きいもの。 （換気空調系、復水系、循環水系等）</p> <div data-bbox="1361 805 1993 1061"> </div> <div data-bbox="1361 1093 1691 1348"> </div> <p>①プラントの起動、通常運転、停止時の監視、操作が必要で、かつ監視、操作頻度の高いもの（例：主蒸気系） ②プラントの異常時、プラントを安全に保つために必要なもの（例：安全注入系）</p> <p>③その他、設置した場合、運転上のメリットが大きいもの（例：換気空調系）</p> <p>図 2.5.1.3 盤面器具及び盤面表示の範囲</p> | <p>【大飯、女川】 設備の相違</p> <ul style="list-style-type: none"> ・泊の「盤面器具」はタッチディスプレイ本体及びハードウェアの操作器・指示計等を指す。 ・泊の「盤面表示」はソフトウェアの操作器・指示計等を指す。 <p>【女川】 記載充実（大飯参照）</p> <p>【大飯】 記載表現の相違</p> |
| | | <p>枠囲みの範囲は機密に係る事項ですので公開することはできません。</p> | |



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第10条 誤操作の防止（別添1）

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|--|--|---|---|
| <p>2.2.2.2 盤面器具配列</p> <p>運転操作面からの配列</p> <ul style="list-style-type: none"> 通常運転と事故時運転操作の両運転時の操作性を良くする。 <p>比較のため、2.2.2.3から抜粋して記載箇所入替</p> <ul style="list-style-type: none"> 操作器は原則としてデスク部に配列している。 <p>比較のため、2.2.2.3から抜粋して記載箇所入替</p> <ul style="list-style-type: none"> トレンA機器は左側、トレンB機器は右側配列とし、縦割りコラム配列としている。 <ul style="list-style-type: none"> 事故時のみ使用する系統及び緊急性・操作頻度の少ない系統は、盤の端の方に設置する。 <p>比較のため、2.2.2.3から抜粋して記載箇所入替</p>  | <p>中央制御盤の盤面器具の配列は、運転員の誤操作、誤認識を防止するよう下記のとおり配置する。</p> <ul style="list-style-type: none"> 警報窓は、警報の発生が監視・操作エリアから監視できるように設置する。 操作器や制御器は、操作時に運転員の負担とならないように制御盤の垂直部及びデスク部に設置し、無理な姿勢での操作とならないように配慮する。  <p>第 2.4.1-2 図 中央制御盤器具配列</p> | <p>(b) 盤面器具配列</p> <p>中央制御盤の盤面器具の配列は、運転員の誤操作、誤認識を防止するよう下記のとおり配置する。</p> <ul style="list-style-type: none"> 通常運転と事故時運転操作の両運転時の操作性を良くする。 中央制御盤に設置する安全系 FDP、常用系 VDU、警報用 VDU 等は、運転員が座位にて監視操作し易い位置に設置し、また一貫性を持った配置とすることで、誤操作及び誤認識を防止する。 警報は、警報の発生が運転業務を行うエリアから監視できるように警報用 VDU に表示する。 操作器や制御器は、操作時に運転員の負担とならないように制御盤の垂直部に設置し、無理な姿勢での操作とならないように配慮する。 常用系 VDU 4 台、警報用 VDU 2 台及び安全系 FDP 3 セット（A・B 各トレン 1 台の 2 台を 1 セット）とし、これらを並べて配置する。 トレンA機器は常用系 VDU の右上に配置した安全系 FDP、トレンB機器は右下に配置した安全系 FDP にて監視操作を行う。 運転員が迅速に対応すべき緊急時の操作を必要とするスイッチについては、ハードウェア操作器を設ける。 ハードウェア操作器は緊急時の操作器であることから、常用系 VDU 等と混在させた配置とせず、また使用時の移動方向を統一する観点から 1 箇所集中して配置する。  <p>ハードウェア指示計等 ハードウェア操作器：緊急時の手動操作 常用系VDU：常用系機器の監視・操作 安全系FDP：安全系機器の監視・操作</p>  <p>図 2.5.1.4 盤面器具の配列</p> <p>枠囲みの範囲は機密に係る事項ですので公開することはできません。</p> | <p>【女川】 記載充実（大飯参照）</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【大飯、女川】 設備の相違②：新型中央制御盤</p> <p>【女川】 記載表現の相違</p> |

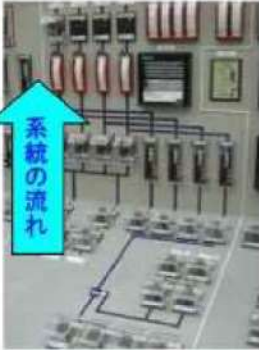
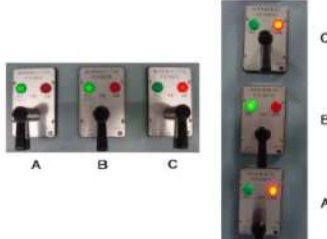
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第10条 誤操作の防止（別添1）

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|--|---|---|--|
| <p>系統ごとの配列</p> <ul style="list-style-type: none"> プラントの系統ごとに分割して配列し、流体の流れ及び操作の流れを考慮して配列する。  <p>2.2.2.3 具体的な盤面器具配列</p> <p>配列は、同一系統内においてはサブシステムごとにグループ化を行うとともに、識別、計器読取、保守、操作性並びに誤操作防止の観点から、可能な限り下記事項のとおりとしている。</p> <ul style="list-style-type: none"> 盤上方から警報表示灯、状態表示灯、指示計、記録計、制御器、操作器の順に配列する。 異なる系統間の識別を容易にするため、異なる系統間の機器間隔を同一系統の機器間隔より大きくしている。 操作上関連の深い機器どうし（指示計、記録計、操作器等）は近接配置としている。 流体の流れ、並びに操作の流れを考慮した機器配列としている。 複雑な系統あるいは事故時に使用する系統については、誤操作防止の観点からミミック化（プロセスの流れに沿って機器の機能的な関係を系統線図で示したもの）している。 同種の操作器等は向かって左、又は上から A、B、C の順に配列する。（左右方向優先） | <p>女川原子力発電所2号炉</p> <ul style="list-style-type: none"> 制御盤はその機能毎のグループにまとめているとともに、関連性が大きいものは近傍に配置する。 所内電源系や非常用炉心冷却系のように複雑な系統又は緊急時に使用する系統に対しては、ミミック（プロセスの流れに沿って機器の機能的な関係を系統線図で示したもの）を用い、プロセスの流れと整合させる。 <p>比較のため、同項内で記載箇所入替</p> <ul style="list-style-type: none"> 同一種類で多重化された指示計及び操作器は、左から A、B、C の順又は下から A、B、C の順に配置する。 | <p>(c) 盤面表示配列</p> <p>系統ごとの配列</p> <ul style="list-style-type: none"> プラントの系統ごとに分割して配列し、流体の流れ及び操作の流れを考慮して配列する。 <p>1次冷却系の流れ 2次冷却系の流れ</p>  <p>図 2.5.1.5 系統メニュー画面</p> <p>枠囲みの範囲は機密に係る事項ですので公開することはできません。</p> <p>盤面表示配列</p> <ul style="list-style-type: none"> 常用系 VDU の画面は表示機能あるいは情報のまとまりごとにグループ分け（表示エリア、操作器・制御器エリア等）し、視覚的にそれが見えるようにする。 異なるグループ間の識別を容易にするため、ブランクスペース、ライン又はその他の手法（背景色に変化をつける等）で区切りを明確にする。 監視操作範囲が複数の系統に渡るタスクでは、処置に則した監視情報と操作器を極力1画面に表示する。 操作上関連の深い機器どうし（指示計、記録計、操作器等）は近接配置としている。 流体の流れ、並びに操作の流れを考慮した機器配列としている。 系統表示画面は、誤操作防止の観点からミミック（プロセスの流れに沿って機器の機能的な関係を系統線図で示したもの）を用い、プロセスの流れと整合させる。 同一種類で多重化された指示計、操作器等は、左から A、B、C の順又は上から A、B、C の順に配置する。 操作器エリアは、囲み枠とともにボジ表示（明るい背景色に暗い文字色）を適用することで他のエリアとの区別をしやすくする。 | <p>相違理由</p> <p>【大飯、女川】 設備の相違②: 新型中央制御盤 ・泊は新型中央制御盤であり、従来のアナログ盤においてハードウェアの盤面器具で行っていた配列を、画面表示により行っている。</p> <p>【女川】 記載充実（大飯参照）</p> <p>【大飯、女川】 設備の相違②: 新型中央制御盤 ・泊は新型中央制御盤であり、従来のアナログ盤においてハードウェアの盤面器具で行っていた配列を、画面表示により行っている。</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【大飯、女川】 記載表現の相違</p> |

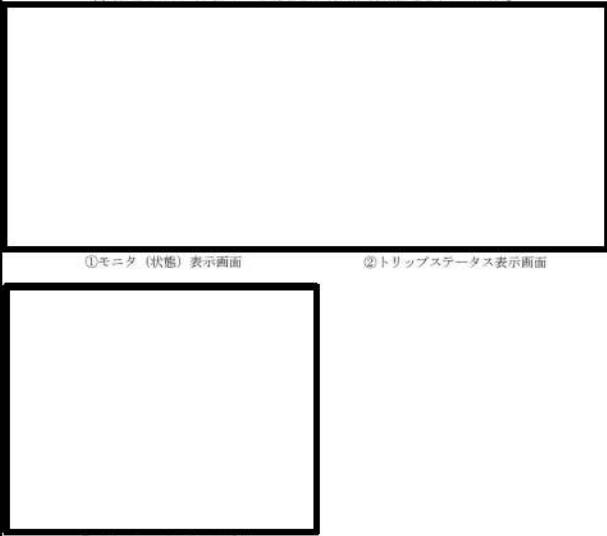
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第10条 誤操作の防止（別添1）

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|--|--|---|---|
| <ul style="list-style-type: none"> 多重化された指示計等関連指示計は横一列に配列している。 指示計、記録計、制御器等の計器類は原則として垂直部に置き、監視又は操作上関連の深いものは多連配列としている。 指示計は最大4段積み配列とする。 記録計、制御器上端高さは、床面より目の位置に近い位置以下としている。 制御器、記録計引き出し時に、操作器と干渉しないように配列する。  | <ul style="list-style-type: none"> 指示計、記録計、表示器等の計器類は視認性に配慮し、原則として垂直面に置き、関連の深いものは多連配列とする。 <p>比較のため、同項内で記載箇所入替</p>  <p>系統の流れは矢印により表示</p> <p>第 2.4.1-3 図 系統区分による配列及びミミック表示（例）</p>  <p>第 2.4.1-4 図 指示計配列（例）</p>  <p>第 2.4.1-5 図 操作器配列（例）</p> | <ul style="list-style-type: none"> 多重化された指示計は同一の画面に表示して、比較し易い状態で表示する。  <p>情報のまとまりごとのグループ分け（例）</p>  <p>多重化された機器の配置（例） 図 2.5.1.6 盤面表示の配列</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>枠囲みの範囲は機密に係る事項ですので公開することはできません。</p> </div> | <p>【大飯、女川】 設備の相違②: 新型中央制御盤</p> <ul style="list-style-type: none"> 泊は新型中央制御盤であり、従来のアナログ盤においてハードウェアの盤面器具で行っていた配列を、画面表示により行っている。 |

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|--|-------------|--|---|
| <p>・表示灯類の配列は下記のとおりとする。</p> <p>①モニタ（状態）表示灯</p> <ul style="list-style-type: none"> ・弁の分類及び補機をグループ化しトレンごとに分割配列する。 ・各分類内での配列は安全防護系信号ごとにまとめて配列する。 <p>②トリップステータス表示</p> <ul style="list-style-type: none"> ・低温停止状態から全出力運転までに点灯するものをまとめて点灯順に表示する。 ・他の異常時のみ点灯するものは信号グループごとにまとめて表示する。 <p>③バイパス・パーミッシブ表示灯</p> <ul style="list-style-type: none"> ・警報表示等と同レベル位置にまとめて配列する。 ・警報と同じように可聴及び点滅機能を持たせる。  | | <p>・表示灯類の配列は下記のとおりとする。</p> <p>①モニタ（状態）表示灯</p> <ul style="list-style-type: none"> ・弁の分類及び補機をグループ化しトレンごとに分割配列する。 ・各分類内での配列は安全保護系信号ごとにまとめて配列する。 <p>②トリップステータス表示</p> <ul style="list-style-type: none"> ・低温停止状態から全出力運転までに点灯するものをまとめて点灯順に表示する。 ・他の異常時のみ点灯するものは信号グループごとにまとめて表示する。 <p>③バイパス・パーミッシブ表示灯</p> <ul style="list-style-type: none"> ・専用のVDU画面にまとめて配列する。 ・警報と同じように可聴及び点滅機能を持たせる。  <p>①モニタ（状態）表示画面 ②トリップステータス表示画面</p> <p>③バイパス・パーミッシブ表示</p> <p>図2.5.1.7 表示灯の配列</p> <p>枠囲みの範囲は機密に係る事項ですので公開することはできません。</p> | <p>【女川】 記載充実（大飯参照）</p> <p>【大飯】 設備の相違②：新型中央制御盤</p> |

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|--|---|---------|--|
| <p>比較のため、記載順序入替</p> <p>2.2.4 CRTの活用</p> <p>運転員により適切なプラント情報を提供するためCRTを主盤に6面、原子炉補助盤に2面、タービン補助盤に1面を設置している。</p> <p>CRTは主給水系統の運転等の2次系運転操作や原子炉出力制御・監視に使用するほか、通常運転時～事故時のプラント状態監視にも使用する。</p> <ul style="list-style-type: none"> ・CRTにプラント情報を集約し画面表示することにより、視認性や認知能力が向上し、運転操作に必要な情報を運転員が容易に把握することが可能となる。 ・CRTに表示するパラメータやトレンドグラフをフォーマットに固定する事で、パラメータの誤認を防止する。 ・操作に関連するパラメータを操作対象スイッチ近くのCRTに表示することにより、操作結果を近くのCRTで確認できるため、運転員の移動量が減少する。  | <ul style="list-style-type: none"> ・運転員にプラント情報を提供するため、ディスプレイを設置している。 <p>ディスプレイは、通常運転時や事故時のプラントの運転状態やパラメータのトレンド監視に使用する。</p>  <p>第 2.4.1-6 図 ディスプレイの配置</p> | | <p>【大飯、女川】 設備の相違②: 新型中央制御盤</p> <ul style="list-style-type: none"> ・泊は監視及び操作の集約化を図ったタッチディスプレイを設置しており、情報提供のみを目的としたディスプレイはない。 |

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| <p>2.2.3 盤面器具の識別</p> <p>・指示計、記録計等の識別 指示計、記録計、表示装置、操作器及び制御器は、系統区分にしたがったグループにまとめている。 また、指示計枠やタグのコーディングを行っている。</p> <p>検出器等の不動作又は除外により情報を提供できない場合、異常状態の表示、警報発信や表示パラメータのダウンスケール等により運転員がそのことを知ることができる。また、人為的な除外に対しては、作業中札等により運転員がそのことを知ることができる。</p>  <p>系統区分による配置例</p>  <p>指示計枠のコーディング（色分け） a. 一般監視計器：黒 b. 事故時監視計器：赤</p>  <p>タグのコーディング（色分け） a. 原度計：赤 b. 減量計：青 c. 水位計：緑</p>  <p>作業中札 作業現場との合意が得られない限り 操作禁止とすることを表示</p> | <p>c. 盤面器具の識別</p> <p>中央制御盤の盤面器具の識別は、運転員の誤操作、誤認識を防止するよう下記のとおり識別する。</p> <p>・指示計、記録計のうち、重要度が高いもの（原子炉の安全停止に直接関わるもの、事故時対応上必要なもの）は赤枠で囲み識別管理をする。</p>  <p>赤枠の監視計器</p>  <p>枠なしの監視計器</p> <p>第 2.4.1-7 図 指示計・記録計の識別（例）</p> | <p>c. 盤面表示の識別</p> <p>中央制御盤の盤面表示の識別は、運転員の誤操作、誤認識を防止するよう下記のとおり識別する。</p> <p>・指示計、記録計等の識別 指示計、記録計、操作器及び制御器は、系統区分にしたがったグループにまとめている。 指示計のうち、重要度が高いもの（発電用原子炉の安全停止に直接関わるもの、事故時対応上必要なもの）は安全系 FDP にも表示する。</p> <p>検出器等の不動作又は除外により情報を提供できない場合や、指示値が警報発信状態となっている場合について、以下の通り色による識別を行っている。</p> <ul style="list-style-type: none"> ・正常状態：白 ・不信頼状態：黄 ・警報発信状態：赤  <p>正常状態 不信頼状態 警報発信状態 図 2.5.1.8 指示計の識別</p> <p>枠囲みの範囲は機密に係る事項ですので公開することはできません。</p> | <p>【大飯、女川】 設備の相違 ・泊の「盤面表示」はソフトウェアの操作器・指示計等を指す。</p> <p>【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【女川】 記載充実（大飯参照）</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 記載表現の相違</p> <p>【大飯、女川】 設備の相違②：新型中央制御盤</p> |


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 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添1）

| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | |
|---|---|---------|------|----|--|---|---|---|--|-----|---------|---|--|
| <p>・警報表示灯の色による識別</p> <p>警報発信時に警報の重要度・緊急度を確かかつ容易に識別・判断できるように色による識別を行う。</p> <p>特に、事故時のように短時間に多数の警報発信がある場合でも、運転員の判断機能の負荷低減ができるように、重要度の高い順に4色（赤・黄・白・青）に色分けを行う。</p> <p>【警報】</p> <p>①赤：S I、C/V隔離、C/Vスプレイ信号、短時間でプラントトリップに至るもの、主要機器の重大故障、周辺環境に影響を与えるもの</p> <p>②黄：短時間に処理しないとプラントトリップに至る可能性の大きいもの、主要機器の機能に関するもの、周辺環境に影響を与える可能性のあるもの、プラントの主要パラメータ異常</p> <p>③白：その他</p> <p>【表示灯】</p> <p>④青：バイパス表示</p> <p>重要度に応じたコーディング</p>  <p>赤 黄 白 青</p> <p>【警報】赤：S I、C/V隔離、C/Vスプレイ信号、短時間でプラントトリップに至るもの、主要機器の重大故障、周辺環境に影響を与えるもの</p> <p>黄：短時間に処理しないとプラントトリップに至る可能性の大きいもの、主要機器の機能に関するもの、周辺環境に影響を与える可能性のあるもの、プラントの主要パラメータ異常</p> <p>白：その他</p> <p>【表示灯】青：バイパス表示</p> | <p>・警報窓は、中央制御室の監視・操作エリアから監視できるように制御盤垂直面の上方部に表示されており、重要度に応じて、高い順から特赤、赤、橙、乳白色に分類し識別する。</p> <p>第 2.4.1-1 表 警報窓の分類</p> <table border="1" data-bbox="784 710 1299 877"> <thead> <tr> <th>分類</th> <th>内容</th> </tr> </thead> <tbody> <tr> <td>特赤</td> <td>プラントの異常状態及びその要因を示す警報 (非常用炉心冷却系の起動及びトリップ、系外放出の放射能高等)</td> </tr> <tr> <td>赤</td> <td>原子炉及びタービン発電機のトリップを示す警報 (原子炉スクラム、格納容器隔離等)</td> </tr> <tr> <td>橙</td> <td>主要機器のトリップを示す警報 (原子炉再循環ポンプ、原子炉給水ポンプ、循環水ポンプトリップ等)</td> </tr> <tr> <td>乳白色</td> <td>上記以外の警報</td> </tr> </tbody> </table> <p>特赤 赤 橙 乳白色</p>  <p>第 2.4.1-8 図 警報窓の識別</p> | 分類 | 内容 | 特赤 | プラントの異常状態及びその要因を示す警報 (非常用炉心冷却系の起動及びトリップ、系外放出の放射能高等) | 赤 | 原子炉及びタービン発電機のトリップを示す警報 (原子炉スクラム、格納容器隔離等) | 橙 | 主要機器のトリップを示す警報 (原子炉再循環ポンプ、原子炉給水ポンプ、循環水ポンプトリップ等) | 乳白色 | 上記以外の警報 | <p>・警報表示灯の色による識別</p> <p>警報発信時は吹鳴音を吹鳴させ、大型表示盤及び警報用VDUで系統ごとにグループ化し警報を点滅表示させる。</p> <p>警報発信時に警報の重要度・緊急度を確かかつ容易に識別・判断できるように色による識別を行う。</p> <p>特に、事故時のように短時間に多数の警報発信がある場合でも、運転員の判断機能の負荷低減ができるように、重要度の高い順に3色（赤、黄、緑）に色分けを行う。</p> <p>・警報：赤（運転員に対応操作を要求する警報）</p> <p>・注意警報：黄（運転員に確認を要求する警報）</p> <p>・ステータス警報：緑（運転員の対応操作/確認を必要としない警報）</p>  <p>図 2.5.1.9 警報表示の識別</p> <p>枠囲みの範囲は機密に係る事項ですので公開することはできません。</p> | <p>【大飯、女川】 設備の相違②: 新型中央制御盤</p> <p>【女川】 記載充実 (大飯参照)</p> <p>【女川】 記載表現の相違</p> |
| 分類 | 内容 | | | | | | | | | | | | |
| 特赤 | プラントの異常状態及びその要因を示す警報 (非常用炉心冷却系の起動及びトリップ、系外放出の放射能高等) | | | | | | | | | | | | |
| 赤 | 原子炉及びタービン発電機のトリップを示す警報 (原子炉スクラム、格納容器隔離等) | | | | | | | | | | | | |
| 橙 | 主要機器のトリップを示す警報 (原子炉再循環ポンプ、原子炉給水ポンプ、循環水ポンプトリップ等) | | | | | | | | | | | | |
| 乳白色 | 上記以外の警報 | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
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第10条 誤操作の防止（別添1）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--------------|-------------|---|---|
| | | <p>d. 大型表示盤 運転員にプラント全体の情報を提供するため、大型表示盤を設置している。 大型表示盤は、特に通常時の監視や異常時・事故時に重要となる監視情報を表示し、これを運転員全員で共有することによりプラント状態の把握の容易化、確実化を図る。</p>  <p>図 2.5.1.10 大型表示盤のイメージ</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;"> <p>枠囲みの範囲は機密に係る事項ですので公開することはできません。</p> </div> | <p>【大飯、女川】 設備の相違②：新型中央制御盤 ・大型表示盤は泊のみの設備</p> |

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第10条 誤操作の防止（別添1）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|---|--|--|---|
| <p>比較のため、2.2.2.3から記載箇所入替</p> <p>運転員の判断機能の軽減化あるいは誤操作防止対策として、盤面器具のコード化（色、形状、大きさ、位置、シンボル、パターン等の視覚的要素での識別）を行う。</p> <p>①制御器は、大きさ、操作に要する力、触覚フィードバック等を考慮し選定している。</p> <p>②制御器の操作方法は、運転員の慣習に基づく動作・方向感覚に合致している。</p> <p>③制御器は不安定な体勢での操作や運転員の意図しない操作を防止するため以下の設計としている。</p> <ul style="list-style-type: none"> ・制御機器の適切な配置 ・固定式保護機構の設置 ・取り外し可能な保護カバーの設置 ・インターロック ・鍵付きスイッチの設置 ・上記項目の組み合わせ | <p>(2) 操作性</p> <p>運転員の判断負担の軽減化あるいは誤操作防止対策として、視覚的要素での識別を可能とするための操作器具の大きさや形状等の統一、並びに操作方法等も一貫性を持たせた設計とする。また、中央制御室の制御盤は、運転員2名でプラント全体の情報を監視し機器を操作する設計とする。</p> <ul style="list-style-type: none"> ・操作器の操作方法は、運転員の慣習に基づく動作・方向感覚に合致させている。（例：操作器は右が「入（開）」、左が「切（閉）」） ・操作器は、不安定な操作や運転員の意図しない操作を防止するよう、操作器の適切な配置（操作時に対象外の操作器に触れることがないよう配置）、保護カバーの設置、キー付スイッチの設置、押釦スイッチを設置する。 <div data-bbox="815 1187 1182 1353" style="text-align: center;"> <p>取り外し可能な保護カバー キー付スイッチ 押釦スイッチ <small>（選択+押し込み）</small></p> </div> <p>第 2.4.1-9 図 操作器の例</p> | <p>(2) 操作性</p> <p>運転員の判断負担の軽減化あるいは誤操作防止対策として、視覚的要素での識別を可能とするための操作器の大きさや形状等の統一、並びに操作方法等も一貫性を持たせた設計とする。また、中央制御盤は、運転員1名でプラント全体の情報を監視し機器を操作する設計とする。</p> <ul style="list-style-type: none"> ・ハードウェア操作器の操作性 ・ハードウェア操作器については以下の設計としている。 <p>①ハードウェア操作器は、大きさ、操作に要する力、触覚フィードバックを考慮し選定している。</p> <p>②ハードウェア操作器の操作方法は、運転員の慣習に基づく動作・方向感覚に合致させている。（例：操作器は右が「作動、使用、増加」、左が「除外、減少」）</p> <p>③ハードウェア操作器は不安定な操作や運転員の意図しない操作を防止するよう、操作器の適切な配置（操作時に対象外の操作器に触れることがないよう配置）、保護カバーを設置する。</p> | <p>相違理由</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 設備の相違 ・泊の「操作器」はハードウェアの操作器、及びソフトウェアの操作器を指す。</p> <p>【女川】 記載表現の相違 ・中央制御室の制御盤⇒中央制御盤</p> <p>【女川】 設計の相違 ・必要運転員の人数</p> <p>【大飯、女川】 記載表現の相違 ・泊は本項でハード操作器、次項でソフト操作器を説明する。</p> <p>【女川】 記載充実（大飯参照）</p> <p>【大飯、女川】 設備の相違②：新型中央制御盤 ・泊においてハードウェア操作器は緊急時の操作器で、限定的な用途であるため、設計が異なる。</p> |

赤字：設備、運用又は体制の相違（設計方針の相違）
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第10条 誤操作の防止（別添1）

大飯発電所3/4号炉

比較のため、2.2.2.3から記載箇所入替

- ④制御機器の色、形、大きさのコーディング方法や操作方法が一貫性を持ち、類似の制御機能と統一されている。
 （その用途・目的に応じて、形、色を適切に組み合わせることにより、誤判断防止を図るものとする。）
- ・ハンドル形状：ピッケル型（ポンプ等）、ステッキ型（弁等）、楕円型（工安系手動スイッチ等）、花型（選択スイッチ等）
 - ・ハンドル色：黒（弁、ポンプ等）、赤（工安系作動）、青（工安系リセット）、茶（断路器）



女川原子力発電所2号炉

- ・操作器は形状のコード化方法や操作方法に統一性を持たせる。（その用途・目的に応じて色、形状を統一させることにより、誤判断防止を図る。）



| 形状 | ピストル型 | キー付き ピストル型 | つまみ型 | 花型 | たまご型 | 押しボタン型 |
|----|--------------|---------------|------|------------|-------------|---------|
| 用途 | 遮断機、遮断機、ポンプ等 | 原子炉モードスイッチ等 | 弁等 | 電圧調整、機器切替等 | 電圧調整、周波数調整等 | 確認スイッチ等 |

第 2.4.1-10 図 形状のコード化例



| 色 | 赤 | 黒 |
|----|-----------------|------------|
| 用途 | 非常用炉心降下ポンプ、注入弁等 | ポンプ、弁（一般）等 |

第 2.4.1-11 図 色の識別例

| 操作器を反時計方向に操作した場合 | | | 操作器を時計回り方向に操作した場合 | | |
|------------------|------------|-------|-------------------|------------|-------|
| 取手の形状 | 制御対象 | 動作 | 取手の形状 | 制御対象 | 動作 |
| ピストル型 | ポンプ | 停止 | ピストル型 | ポンプ | 起動 |
| ピストル型 | 遮断機、断路器 | 切 | ピストル型 | 遮断機、断路器 | 入 |
| つまみ型 | 弁 | 全開（閉） | つまみ型 | 弁 | 全開（閉） |
| たまご型 | 電圧調整、周波数調整 | 減 | たまご型 | 電圧調整、周波数調整 | 増 |

第 2.4.1-12 図 操作方法の統一性

泊発電所3号炉

- ④ハードウェア操作器は形状のコード化方法や操作方法に統一性を持たせる。（その用途・目的に応じて色、形状を統一させることにより、誤判断防止を図る。）
- ・ハンドル形状：楕円形（工安系手動スイッチ等）、花型（選択スイッチ）
 - ・ハンドル色：赤（工安系作動等）、黒（常用系）

- ⑤ハードウェア操作器は原子炉トリップ、ECCS 作動等の機能ごとにグループ化した配置とし、識別が容易となるようグループごとに枠で囲んでいる。

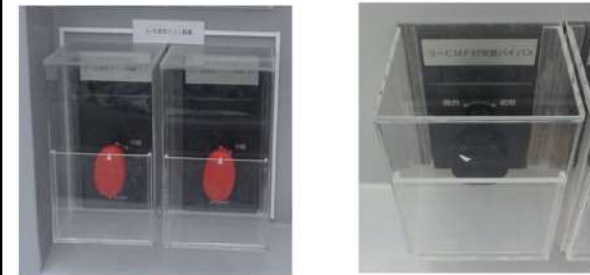


図 2.5.1.11 ハードウェア操作器

相違理由

【大飯、女川】
記載表現の相違

【女川】
記載充実（大飯参照）

【大飯、女川】
設備の相違②：新型中央制御盤

・泊においてハードウェア操作器は緊急時の操作器で、限定的な用途であるため、設計が異なる。

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 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添1）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--|-------------|---|--|
| <p>2.3 その他制御盤の誤操作防止対策等</p> <p>【タッチオペレーション方式（1次系及び2次系補機操作盤）】</p> <ul style="list-style-type: none"> ・タッチ領域は、枠等を表示することにより、その領域がタッチ領域であることを区別された表示としている。 ・タッチ領域は、打ち返し表示することにより、タッチを受けて機器が動作状態になったことを運転員は容易に確認することができる。 ・タッチ領域には、タッチミスが生じないよう大きさを確保している。 ・タッチ方式を一貫している。 ・タッチ操作器の呼び出しによって表示される制御器及び操作器の数は原則として1つとしている。 ・ワンタッチ操作による誤操作防止のため、タッチ後に確認画面がポップアップされるとともに、再度、その画面をタッチすることによりポンプや弁などが動作するダブルアクションとしている。 <div data-bbox="107 836 703 1225" style="border: 1px solid black; height: 244px; width: 266px; margin-top: 20px;"></div> <div data-bbox="143 1262 640 1289" style="border: 1px solid black; padding: 2px; margin-top: 10px;"> <p>枠囲みの範囲は機密に係る事項ですので公開することはできません。</p> </div> | | <p>・ソフトウェア操作器の操作性</p> <p>タッチオペレーション方式を採用し、以下の設計としている。</p> <ol style="list-style-type: none"> ①タッチ領域は枠等を表示することにより、その領域がタッチ領域であることを区別された表示としている。 ②タッチ領域は、打ち返し表示することにより、タッチを受けて機器が動作状態になったことを運転員は容易に確認することができる。 ③タッチ領域には、タッチミスが生じないよう大きさを確保している。 ④タッチ方式を一貫している。 ⑤タッチ操作器の呼び出しによって表示される制御器及び操作器の数は、原則として1つとしている。 ⑥ワンタッチ操作による誤操作防止のため、操作器の保護カバー部をタッチして操作可能な状態にした後に、再度、操作器ボタンをタッチすることによりポンプや弁等が動作するダブルアクションとしている。 <p>⑦操作器は標準的な形状を設け、タッチボタンの配置や大きさ等、可能な限り統一する。</p> <p>⑧ポンプ／弁等のシンボルの形状及び状態変化（起動・停止、開・閉）の表示方式を統一する。</p> <div data-bbox="1361 906 1989 1276" style="border: 1px solid black; padding: 10px; margin-top: 20px;"> </div> <p style="text-align: center;">図 2.5.1.12 ソフトウェア操作器</p> <div data-bbox="1384 1353 1975 1380" style="border: 1px solid black; padding: 2px; margin-top: 10px;"> <p>枠囲みの範囲は機密に係る事項ですので公開することはできません。</p> </div> | <p>【女川】 記載充実（大飯参照）</p> <p>【大飯】 設備の相違</p> <ul style="list-style-type: none"> ・泊では補機操作盤だけでなく主機操作としてタッチオペレーションを採用している。 <p>【大飯】 設備の相違</p> <ul style="list-style-type: none"> ・方法は異なるが、ダブルアクションを採用している点は同等である。 <p>【大飯】 記載表現の相違</p> <p>【大飯】 記載内容の相違</p> <ul style="list-style-type: none"> ・泊の⑦、⑧について大飯に記載なし。 |

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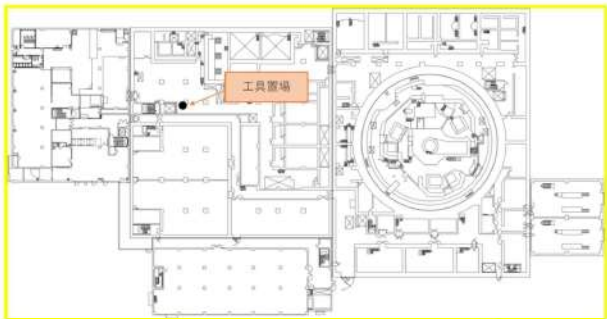


第10条 誤操作の防止（別添1）

| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--|--|---|--|
| <p>2.5 現場での誤操作防止等</p> <p>2.5.1 現場盤での対策 現場に設置されている操作盤等についても、中央制御室制御盤の設計と同様の誤操作防止並びに操作の容易性に関する対策を実施している。</p> <p>比較のため、記載順序入替</p> <p>2.5.3 施錠管理 誤操作によりプラントの安全上重要な機能に障害をきたすおそれがある機器や弁類、また、外部環境に影響を与えるおそれのある現場弁等に対し、施錠管理を行っている。</p>  <p>2.5.2 色分けによる識別</p> | <p>2.4.2 中央制御室以外の誤操作防止対策</p> <p>中央制御室以外の場所における運転員等の誤操作を防止するため、原子炉施設の安全上重要な機能を損なうおそれのある機器の盤及び手動弁の施錠管理、人身安全・外部環境に影響を与えるおそれのある手動弁の施錠管理、現場盤及び計装ラックの識別管理、配管の色分けによる識別管理を行う設計とする。 また、この対策により現場操作の容易性も確保する。</p> <p>(1) 施錠管理 発電用原子炉施設の安全上重要な機能に支障をきたす可能性のある手動弁等について施錠管理を行う。また、弁以外にも誤操作防止等の観点から高圧閉鎖配電盤、安全上重要な機能に支障をきたす可能性のある計器を収納している計装ラックについても施錠管理を行う。 上記設備は、施錠を解除しないと操作できないようにすることで、誤操作防止を図る。</p>  <p>2.4.2-1 図 施錠管理（例）</p> <p>(2) 識別管理 女川2号炉は、女川1号炉と現場への入域の通路を一部共用している。このため、入域時における号炉の取り違いによる誤操作を防止するため、各号炉へアクセスする扉に識別管理を実施する。</p>  <p>第2.4.2-2 図 現場（管理区域入口）の号炉識別（例）</p> | <p>2.5.2 中央制御室以外の誤操作防止対策</p> <p>中央制御室以外の場所における運転員等の誤操作を防止するため、発電用原子炉施設の安全上重要な機能を損なうおそれのある機器の盤及び手動弁の施錠管理、人身安全・外部環境に影響を与えるおそれのある手動弁の施錠管理、現場盤及び計装ラックの識別管理、配管の色分けによる識別管理を行う設計とする。 また、この対策により現場操作の容易性も確保する。</p> <p>(1) 現場盤での対策 現場に設置されている操作盤等についても、中央制御室制御盤の設計と同様の誤操作防止並びに操作の容易性に関する対策を実施している。</p> <p>(2) 施錠管理 発電用原子炉施設の安全上重要な機能に支障をきたす可能性のある手動弁等について施錠管理を行う。また、弁以外にも誤操作防止等の観点から電源盤、安全上重要な機能に支障をきたす可能性のある計装ラックについても施錠管理を行う。 上記設備は、施錠を解除しないと操作できないようにすることで、誤操作防止を図る。</p>  <p>2.5.2.1 施錠管理（例）</p> <p>特開みの範囲は機密に係る事項ですので公開することはできません。</p> <p>(3) 識別管理</p> | <p>【大飯】 項目名称の相違 ・女川実績の反映</p> <p>【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【女川】 記載表現の相違 ・記載適正化</p> <p>【女川】 記載充実（大飯参照）</p> <p>【大飯】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 記載表現の相違</p> <p>【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【大飯】 項目名称の相違 ・女川実績の反映</p> <p>【女川】 設備の相違 ・泊はシングルプラントであり入域通路を他号炉と共有していない。</p> |

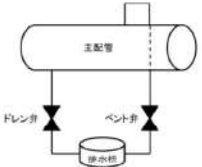
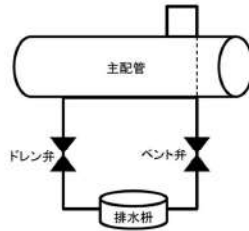
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|--------------|--|---|--|
| | <p>(3) 操作補助掲示</p> <p>開度調整時の補助（目安）として、試運転時の実績等を使用手順書、現場表示銘板へ記載することにより、弁操作時における開度調整の視認性を向上させる。</p> <p>なお、開度調整が必要な弁（流量、圧力、温度調整弁）については、開度調整後にパラメータ（流量、圧力、温度）確認を行い、その弁が適切な開度に調整されていることを確認する。</p>  <p>第 2.4.2-4 図 弁開度表示 (例)</p> <p>また、過去の不適合事例のノウハウを現場に標示し、注意喚起することで機器破損（誤操作）を防止する。</p>  <p>第 2.4.2-5 図 過去のノウハウ現場注意喚起 (例)</p> <p>(4) 可搬型照明・工具の配備</p> <p>非常時に運転操作に必要な場所及びそこに至る通路・階段等には非常用電源から給電する恒設照明を設置すると共に、懐中電灯等の可搬照明を中央制御室に配備する。</p> <p>また、現場の弁等を操作する際に使用する工具については、各種弁の仕様や構造に応じた適正な工具を中央制御室運転員工具置場（非管理区域用）、及び現場工具置場（管理区域用）に配備するとともに、操作架台を配備し、現場の弁の操作が行えるようにする。</p> <p>外部電源の喪失に対して、必要な箇所には非常用ディーゼル発電機から給電される照明を設置しているため、機能を喪失することはない。また、全交流動力電源喪失に対しては、直流照明兼非常用照明が必要な箇所に設置することで、現場操作及び現場へのアクセスに影響がない設計とする。また、中央制御室には可搬型照明を配備しており、必要に応じてこれらを使用できるようにしている。</p> | <p>(4) 操作補助掲示</p> <p>開度調整時の補助（目安）として、試運転時の実績等を使用手順書、現場表示銘板へ記載することにより、弁操作時における開度調整の視認性を向上させる。</p> <p>なお、開度調整が必要な弁（流量、圧力、温度調整弁）については、開度調整後にパラメータ（流量、圧力、温度）確認を行い、その弁が適切な開度に調整されていることを確認する。</p>  <p>図 2.5.2.3 弁開度表示 (例)</p> <p>また、過去の不適合事例のノウハウを現場に標示し、注意喚起することで機器破損（誤操作）を防止する。</p>  <p>図 2.5.2.4 過去のノウハウ現場注意喚起 (例)</p> <p>(5) 可搬型照明・工具の配備</p> <p>非常時に運転操作に必要な場所及びそこに至る通路・階段等には非常用電源から給電する恒設照明を設置すると共に、懐中電灯等の可搬照明を中央制御室に配備する。</p> <p>また、現場の弁等を操作する際に使用する工具については、各種弁の仕様や構造に応じた適正な工具を中央制御室運転員工具置場（非管理区域用）、及び現場工具置場（管理区域用）に配備するとともに、操作架台を配備し、現場の弁の操作が行えるようにする。</p> <p>外部電源の喪失に対して、必要な箇所にはディーゼル発電機から給電される照明を設置しているため、機能を喪失することはない。また、全交流動力電源喪失に対しては、無停電運転保安灯が必要な箇所に設置することで、現場操作及び現場へのアクセスに影響がない設計とする。また、中央制御室には可搬型照明を配備しており、必要に応じてこれらを使用できるようにしている。</p> | <p>【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【女川】 名称の相違 ・非常用ディーゼル発電機⇄ディーゼル発電機</p> <p>【女川】 設備の相違 ・女川は非常用直交流電源から給電する直流照明兼非常用照明を設置している。泊は全交流動力電源喪失時の照明は無停電運転保安灯にて確保する。</p> |

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|--------------|--|---|------|
| | <p data-bbox="929 111 1153 135">女川原子力発電所2号炉</p>  <p data-bbox="873 462 1187 486">第 2.4.2-6 図 中央制御室内工具類配置図</p>  <p data-bbox="873 766 1153 790">第 2.4.2-7 図 原子炉建屋1階工具類配置図</p> <div data-bbox="862 925 1187 1069">  <p data-bbox="896 1045 1153 1069">懐中電灯 ヘッドライト</p> </div> <p data-bbox="896 1077 1153 1101">第 2.4.2-8 図 可搬型照明 (例)</p> <div data-bbox="862 1117 1187 1260">  <p data-bbox="896 1236 1153 1260">弁操作工具 操作架台</p> </div> <p data-bbox="896 1268 1153 1292">第 2.4.2-9 図 現場操作工具 (例)</p> | <p data-bbox="1601 111 1825 135">泊発電所3号炉</p>  <p data-bbox="1545 446 1825 470">図 2.5.2.5 中央制御室内工具類配置図</p>  <p data-bbox="1500 798 1870 821">図 2.5.2.6 原子炉補助建屋 T.P. 10.3m 工具類配置図</p> <div data-bbox="1456 925 1892 1069">  <p data-bbox="1512 1077 1859 1101">懐中電灯 ヘッドライト</p> </div> <p data-bbox="1556 1109 1814 1133">図 2.5.2.7 可搬型照明 (例)</p> <div data-bbox="1456 1165 1892 1308">  <p data-bbox="1512 1316 1848 1340">弁操作工具 操作架台</p> </div> <p data-bbox="1556 1348 1825 1372">図 2.5.2.8 現場操作工具 (例)</p> | |

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| | <p>(5) 現場機器付番への配慮 現場機器に付番をする際には、系統内の流体の流れや機器の配置等を考慮して規則性を持たせた付番を行うことで、操作対象機器の把握等を容易にしている。</p> <p>例：原子炉圧力容器を起点とし、その系の流れ方向に従い上流から順を追って付番する。 同一機器が並列に配置される場合は西から東、もしくは北から南方向へ付番する。</p> <p>(6) 機器配置への配慮 系統の水張りや水抜きに使用する空気抜き（ベント）弁、水抜き（ドレン）弁は、排出先の排水枡（ファンネル）への排出状況を見ながら操作が可能な位置に配置する。</p>  <p>第 2.4.2-10 図 現場弁や排水枡の配置 (例)</p> | <p>(6) 現場機器付番への配慮 現場機器に付番をする際には、系統内の流体の流れや機器の配置等を考慮して規則性を持たせた付番を行うことで、操作対象機器の把握等を容易にしている。</p> <p>例：原子炉圧力容器を起点とし、その系の流れ方向に従い上流から順を追って付番する。 同一機器が並列に配置される場合は西から東、若しくは北から南方向へ付番する。</p> <p>(7) 機器配置への配慮 系統の水張りや水抜きに使用する空気抜き（ベント）弁、水抜き（ドレン）弁は、排出先の排水枡（ファンネル）への排出状況を見ながら操作が可能な位置に配置する。</p>  <p>図 2.5.2.9 現場弁や排水枡の配置 (例)</p> | <p>【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【女川】 記載表現の相違</p> <p>【大飯】 記載内容の相違 ・女川実績の反映</p> |




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|---|--|---|---|
| <p>2.5.4 識別表示</p> <p>2.5.4.1 掲示札による識別</p> <p>点検や作業対象の機器等を掲示札により明確化することで、点検・作業対象機器の誤操作防止を図っている。液体及び気体を保有する系統への漏えいを防止するために設けた境界部に対しては「バウンダリ札」を、作業安全のために操作を禁止するものには「作業中札」を取り付ける。</p> | <p>2.4.3 その他の誤操作防止</p> <p>(1) タグ札による識別</p> <p>機器の点検等の作業を実施する場合、安全処置内容を明記した『操作禁止タグ札』を処置した箇所に取り付け、機器の状態を識別することで当該機器の誤操作防止を図る。</p> <p>また、『操作禁止タグ札』は、号炉識別がされており、号炉間違いによる誤操作防止を図っている。</p> <div data-bbox="896 430 1198 590" data-label="Image"> <p>赤:女川1号炉 青:女川2号炉 緑:女川3号炉</p> </div> <p>第 2.4.3-1 図 操作禁止タグ札</p> <p>a. 中央制御室における「操作禁止タグ札」の運用について</p> <p>中央制御室での操作スイッチに安全処置を実施する場合には、「操作禁止タグ札」に記載されている安全処置を実施後に、「操作禁止タグ札」を保護カバーに収納する。</p> <div data-bbox="929 893 1120 1069" data-label="Image"> </div> <p>第 2.4.3-2 図 操作禁止タグ札</p> <p>b. 現場における「操作禁止タグ札」の運用について</p> <p>現場操作においても中央制御室の操作同様に、『操作禁止タグ札』に記載されている安全処置を実施後に、当該機器へ直接『操作禁止タグ札』を取り付ける。</p> <div data-bbox="817 1268 1176 1428" data-label="Image"> </div> <p>第 2.4.3-3 図 現場におけるタグ札運用</p> | <p>2.5.3 その他の誤操作防止</p> <p>(1) タグによる識別</p> <p>機器の点検等の作業を実施する場合、安全処置内容を明記した『操作禁止タグ（ソフトタグ含む）』を処置した箇所に取り付け、機器の状態を識別することで当該機器の誤操作防止を図る。</p> <p>また、『操作禁止タグ札』は、号炉識別がされており、号炉間違いによる誤操作防止を図っている。</p> <div data-bbox="1523 414 1848 598" data-label="Image"> <p>1号炉：緑 2号炉：橙 3号炉：青</p> </div> <p>図 2.5.3.1 操作禁止タグ札</p> <p>a. 中央制御室における「操作禁止タグ」の運用について</p> <p>中央制御室でのソフトウェア操作スイッチに安全処置を実施する場合には、「操作禁止タグ（ソフトタグ）」に記載されている安全処置を実施後に、「操作禁止タグ（ソフトタグ）」をソフトウェア上で取り付ける。</p> <p>中央制御室でのハードウェア操作スイッチに安全処置を実施する場合には、「操作禁止タグ札」に記載されている安全処置を実施後に、「操作禁止タグ札」を保護カバーに収納する。</p> <div data-bbox="1366 909 1512 1037" data-label="Image"> </div> <div data-bbox="1534 909 1680 1037" data-label="Image"> </div> <div data-bbox="1691 917 1982 1045" data-label="Text"> <p>ソフトタグ： 常用系VDU及び安全系FDPの画面で操作する機器に対して、ソフトウェア上でタグを取り付ける機能を設けている。ソフトタグは紙札のタグと同等の情報を表示することができる。</p> </div> <p>タグ札による識別 ソフトタグによる識別</p> <p>図 2.5.3.2 中央制御室におけるタグ運用</p> <div data-bbox="1411 1101 1937 1141" data-label="Text"> <p>枠囲みの範囲は機密に係る事項ですので公開することはできません。</p> </div> <p>b. 現場における「操作禁止タグ札」の運用について</p> <p>現場操作においても中央制御室の操作同様に、「操作禁止タグ札」に記載されている安全処置を実施後に、当該機器へ直接「操作禁止タグ札」を取り付ける。</p> <div data-bbox="1377 1276 1523 1460" data-label="Image"> </div> <p>図 2.5.3.3 現場におけるタグ運用</p> | <p>【大阪】 項目名称の相違 ・女川実績の反映</p> <p>【大阪】 記載表現の相違 ・女川実績の反映</p> <p>【女川】 設備の相違 ・泊の「タグ」は紙札の他、ソフトウェア上で取り付けるタグも含む</p> <p>【大阪】 記載内容の相違 ・女川実績の反映</p> <p>【女川】 設備の相違 ・泊の「ソフトタグ」はソフトウェア上で取り付ける</p> <p>【女川】 記載表現の相違</p> <p>【大阪】 記載内容の相違 ・女川実績の反映</p> <p>【女川】 記載表現の相違 『』⇔「」</p> |

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第10条 誤操作の防止（別添1）

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|--|-------------|---------|------|
| <p>2.5.4.2 定期検査時の識別 3号炉及び4号炉のツインユニットであり、片側ユニットの定期検査中において、出力運転中のユニット側の現場に「運転中」掲示板を表示することで、識別を行っている。</p> <p>2.5.4.3 運転中試験時の識別 運転中の試験時に試験対象となる制御盤等に試験中であることが分かる表示により識別をしている。</p> <div data-bbox="100 662 694 1013"> <p>掲示札による識別 液体及び気体を保持する系統で、系外への漏えいを防止するために設けた境界部に 대해서는「バウンダリ札」を、作業安全のために操作を禁止するものには「作業中札」を取り付ける。</p>  <p>【バウンダリ札】</p> <p>【作業中札】</p> <p>定期検査時の識別 定期検査中、現場の運転側ユニットに「運転中」掲示板を表示し、識別を行っている。</p>  <p>運転中試験時の識別 試験時に試験対象となる制御盤等に試験対象を明確にする表示をしている。</p>  <p>【試験時の識別表示】</p> </div> | | | |

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|--|-------------|--|--|
| <p>2.7 運転員の誤操作防止</p> <p>2.7.1 運転員の力量 運転員については、担当する業務に応じた認定制度を有しており、各ポジションには求められる知識・技能等の力量を持った者を配置している。</p> <p>2.7.2 運転員の教育 QMSに基づいた計画的なシミュレータ訓練（社内、社外）及びOJT教育等により習熟を図り、誤操作防止に努めている。</p> <p>2.7.3 運転員の基本動作 運転操作においては、誤操作防止のため、指差し呼称等の基本動作を確実に実施し、操作前後及び操作中においても、複数の監視計器類を確認することにより、誤認に起因する誤操作防止に努めている。</p> <p>（操作・作業時の誤操作防止のための基本動作の例） セルフチェック：個人レベルの誤操作防止（自問自答、一操作一確認、指差し呼称等） ピアチェック：グループレベルの誤操作防止（ダブルチェック、復命復唱、報・連・相等） 3Wayコミュニケーション : 指示・確認・再指示（双方向確認）により、双方向の意思疎通を明確にするためのコミュニケーション方法</p> <p>2.7.4 操作前打ち合わせ 重要な運転操作や作業等を実施する場合において、事前に操作する運転員と役職者との打ち合わせを実施し、操作時における注意事項の周知、操作する上でのリスクの共有及び過去の不適合事象の周知等を実施することで誤操作防止に努めている。</p> <p>2.7.5 運転マニュアルの使用 運転操作は、運転マニュアルに基づき操作することが基本であり、操作順序、操作手順、操作する上での注意事項や確認事項等が盛り込まれていることから誤操作防止に寄与する。 また、改善事項や不適合が発生すればその対策をマニュアルに反映し、同事象の再発防止を図っている。</p> | | <p>2.6 運転員の誤操作防止</p> <p>(1) 運転員の力量 運転員については、担当する業務に応じた認定制度を有しており、各ポジションには求められる知識・技能等の力量を持った者を配置している。</p> <p>(2) 運転員の教育 QMSに基づいた計画的なシミュレータ訓練（社内、社外）、OJT教育等により習熟を図り、誤操作防止に努めている。</p> <p>(3) 運転員の基本動作 運転操作においては、誤操作防止のため、指差し呼称等の基本動作を確実に実施し、操作前後及び操作中においても、複数の監視計器類を確認することにより、誤認に起因する誤操作防止に努めている。</p> <p>（操作・作業時の誤操作防止のための基本動作の例） セルフチェック：個人レベルの誤操作防止（自問自答、一操作一確認、指差し呼称等） ピアチェック：グループレベルの誤操作防止（ダブルチェック、復命復唱、報・連・相等） 3Way コミュニケーション : 指示・復唱・確認（双方向確認）により、双方向の意思疎通を明確にするためのコミュニケーション方法</p> <p>(4) 操作前打ち合わせ 重要な運転操作や作業等を実施する場合において、事前に操作する運転員と役職者との打ち合わせを実施し、操作時における注意事項の周知、操作する上でのリスクの共有、過去の不適合事象の周知等を実施することで誤操作防止に努めている。</p> <p>(5) 運転マニュアルの使用 運転操作は、運転マニュアルに基づき操作することが基本であり、操作順序、操作手順、操作する上での注意事項や確認事項等が盛り込まれていることから誤操作防止に寄与する。 また、改善事項や不適合が発生すればその対策をマニュアルに反映し、同事象の再発防止を図っている。</p> | <p>【女川】 記載充実（大飯参照）</p> <p>【大飯】 記載表現の相違</p> <p>【大飯】 記載表現の相違</p> <p>【大飯】 記載表現の相違</p> |

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| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <p style="text-align: right;">別紙1</p> <p>新規制基準適合性申請において新たに設置計画している設計基準対象施設に係る追加設備の誤操作防止について （設置許可基準規則第10条第1項への適合性）</p> <p>1. 監視操作機能を有する設計基準対象施設に係る追加設備の抽出 新規制基準適合性申請において新たに設置計画している設計基準対象施設に係る追加設備を第1表のとおり抽出し、誤操作防止（設置許可基準規則第10条第1項）への適合性を評価するため、さらにプラントの監視操作機能を有する設備を整理した。</p> <p>第1表 監視操作機能を有する設計基準対象施設に係る追加設備の抽出（1/2）</p> <table border="1" data-bbox="734 630 1339 1209"> <thead> <tr> <th>設備許可</th> <th>設計基準対象施設に係る追加設備の抽出</th> <th>プラントの監視操作</th> </tr> </thead> <tbody> <tr> <td>第三条</td> <td>設計基準対象施設の地盤</td> <td>地下水水位低下設備監視盤</td> </tr> <tr> <td>第四条</td> <td>地震による損傷の防止</td> <td>なし</td> </tr> <tr> <td rowspan="10">第五条</td> <td rowspan="10">津波による損傷の防止</td> <td>防備堤</td> <td>—</td> </tr> <tr> <td>防備壁</td> <td>—</td> </tr> <tr> <td>逆流防止設備</td> <td>—</td> </tr> <tr> <td>水密扉</td> <td>—</td> </tr> <tr> <td>浸水防止蓋</td> <td>—</td> </tr> <tr> <td>逆止弁付ファンネル</td> <td>—</td> </tr> <tr> <td>貫通部止水処理</td> <td>—</td> </tr> <tr> <td>津波監視カメラ</td> <td>監視のみ</td> </tr> <tr> <td>取水ビット水位計</td> <td>監視のみ</td> </tr> <tr> <td>取放水路流路縮小</td> <td>—</td> </tr> <tr> <td rowspan="3">第六条</td> <td rowspan="3">外部からの衝撃による損傷の防止</td> <td>防火帯</td> <td>—</td> </tr> <tr> <td>津波防護板</td> <td>—</td> </tr> <tr> <td>電巻防護ネット</td> <td>—</td> </tr> <tr> <td>第七条</td> <td>発電用原子炉施設への人の不法な侵入等の防止</td> <td>なし</td> </tr> <tr> <td rowspan="13">第八条</td> <td rowspan="13">火災による損傷の防止</td> <td>煙</td> <td>—</td> </tr> <tr> <td>ドレンリム</td> <td>—</td> </tr> <tr> <td>蓄電池室水素濃度検知器</td> <td>監視のみ</td> </tr> <tr> <td>火災感知器</td> <td>監視のみ</td> </tr> <tr> <td>全域ガス消火設備</td> <td>監視操作</td> </tr> <tr> <td>局部ガス消火設備</td> <td>監視操作</td> </tr> <tr> <td>消火用非常用照明器具</td> <td>—</td> </tr> <tr> <td>コンクリート壁</td> <td>—</td> </tr> <tr> <td>1時間耐火隔壁</td> <td>—</td> </tr> <tr> <td>3時間耐火隔壁</td> <td>—</td> </tr> <tr> <td>貫通部シール</td> <td>—</td> </tr> <tr> <td>防火扉</td> <td>—</td> </tr> </tbody> </table> | 設備許可 | 設計基準対象施設に係る追加設備の抽出 | プラントの監視操作 | 第三条 | 設計基準対象施設の地盤 | 地下水水位低下設備監視盤 | 第四条 | 地震による損傷の防止 | なし | 第五条 | 津波による損傷の防止 | 防備堤 | — | 防備壁 | — | 逆流防止設備 | — | 水密扉 | — | 浸水防止蓋 | — | 逆止弁付ファンネル | — | 貫通部止水処理 | — | 津波監視カメラ | 監視のみ | 取水ビット水位計 | 監視のみ | 取放水路流路縮小 | — | 第六条 | 外部からの衝撃による損傷の防止 | 防火帯 | — | 津波防護板 | — | 電巻防護ネット | — | 第七条 | 発電用原子炉施設への人の不法な侵入等の防止 | なし | 第八条 | 火災による損傷の防止 | 煙 | — | ドレンリム | — | 蓄電池室水素濃度検知器 | 監視のみ | 火災感知器 | 監視のみ | 全域ガス消火設備 | 監視操作 | 局部ガス消火設備 | 監視操作 | 消火用非常用照明器具 | — | コンクリート壁 | — | 1時間耐火隔壁 | — | 3時間耐火隔壁 | — | 貫通部シール | — | 防火扉 | — | <p style="text-align: right;">別紙1</p> <p>新規制基準適合性申請において新たに設置計画している設計基準対象施設に係る追加設備の誤操作防止について （設置許可基準規則第10条第1項への適合性）</p> <p>1. 監視操作機能を有する設計基準対象施設に係る追加設備の抽出 新規制基準適合性申請において新たに設置計画している設計基準対象施設に係る追加設備を表1のとおり抽出し、誤操作防止（設置許可基準規則第10条第1項）への適合性を評価するため、さらにプラントの監視操作機能を有する設備を整理した。</p> <p>表1 監視操作機能を有する設計基準対象追加設備の抽出（1/3）</p> <table border="1" data-bbox="1373 635 1973 1109"> <thead> <tr> <th>設置許可</th> <th>設計基準対象追加設備の抽出</th> <th>プラントの監視操作</th> </tr> </thead> <tbody> <tr> <td>4条</td> <td>地震による損傷の防止</td> <td>地下水排水設備</td> </tr> <tr> <td rowspan="10">5条</td> <td rowspan="10">津波による損傷の防止</td> <td>防備堤</td> <td>—</td> </tr> <tr> <td>1号及び2号取水路流路縮小工</td> <td>—</td> </tr> <tr> <td>1号及び2号取放水路逆流防止設備</td> <td>—</td> </tr> <tr> <td>屋外排水路逆流防止設備</td> <td>—</td> </tr> <tr> <td>3号取水ビットスクリーン室防水壁</td> <td>—</td> </tr> <tr> <td>3号取放水ビット流路縮小工</td> <td>—</td> </tr> <tr> <td>3号取水ビット流路逆流防止設備</td> <td>—</td> </tr> <tr> <td>水密扉</td> <td>—</td> </tr> <tr> <td>ドレンライン逆止弁</td> <td>—</td> </tr> <tr> <td>浸水防止蓋</td> <td>—</td> </tr> <tr> <td rowspan="4">6条</td> <td rowspan="4">外部からの衝撃による損傷の防止</td> <td>貫通部止水処理</td> <td>—</td> </tr> <tr> <td>貯留庫</td> <td>—</td> </tr> <tr> <td>津波監視カメラ</td> <td>監視のみ</td> </tr> <tr> <td>取水ビット水位計</td> <td>監視のみ</td> </tr> <tr> <td></td> <td>潮位計</td> <td>監視のみ</td> </tr> <tr> <td></td> <td>竜巻飛来物防護対策設備</td> <td>—</td> </tr> <tr> <td></td> <td>防火帯</td> <td>—</td> </tr> <tr> <td></td> <td>隔壁（断熱材）</td> <td>—</td> </tr> </tbody> </table> | 設置許可 | 設計基準対象追加設備の抽出 | プラントの監視操作 | 4条 | 地震による損傷の防止 | 地下水排水設備 | 5条 | 津波による損傷の防止 | 防備堤 | — | 1号及び2号取水路流路縮小工 | — | 1号及び2号取放水路逆流防止設備 | — | 屋外排水路逆流防止設備 | — | 3号取水ビットスクリーン室防水壁 | — | 3号取放水ビット流路縮小工 | — | 3号取水ビット流路逆流防止設備 | — | 水密扉 | — | ドレンライン逆止弁 | — | 浸水防止蓋 | — | 6条 | 外部からの衝撃による損傷の防止 | 貫通部止水処理 | — | 貯留庫 | — | 津波監視カメラ | 監視のみ | 取水ビット水位計 | 監視のみ | | 潮位計 | 監視のみ | | 竜巻飛来物防護対策設備 | — | | 防火帯 | — | | 隔壁（断熱材） | — | <p>【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【女川】 資料名の相違</p> <p>【女川】 設備の相違 ・抽出された設備は異なるが考え方は女川と泊で同様である。</p> |
| 設備許可 | 設計基準対象施設に係る追加設備の抽出 | プラントの監視操作 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第三条 | 設計基準対象施設の地盤 | 地下水水位低下設備監視盤 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第四条 | 地震による損傷の防止 | なし | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第五条 | 津波による損傷の防止 | 防備堤 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 防備壁 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 逆流防止設備 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 水密扉 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 浸水防止蓋 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 逆止弁付ファンネル | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 貫通部止水処理 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 津波監視カメラ | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 取水ビット水位計 | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 取放水路流路縮小 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第六条 | 外部からの衝撃による損傷の防止 | 防火帯 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 津波防護板 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 電巻防護ネット | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第七条 | 発電用原子炉施設への人の不法な侵入等の防止 | なし | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第八条 | 火災による損傷の防止 | 煙 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ドレンリム | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 蓄電池室水素濃度検知器 | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 火災感知器 | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 全域ガス消火設備 | 監視操作 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 局部ガス消火設備 | 監視操作 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 消火用非常用照明器具 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | コンクリート壁 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1時間耐火隔壁 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 3時間耐火隔壁 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 貫通部シール | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 防火扉 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 設置許可 | 設計基準対象追加設備の抽出 | プラントの監視操作 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4条 | 地震による損傷の防止 | 地下水排水設備 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5条 | 津波による損傷の防止 | 防備堤 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1号及び2号取水路流路縮小工 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1号及び2号取放水路逆流防止設備 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 屋外排水路逆流防止設備 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 3号取水ビットスクリーン室防水壁 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 3号取放水ビット流路縮小工 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 3号取水ビット流路逆流防止設備 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 水密扉 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ドレンライン逆止弁 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 浸水防止蓋 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6条 | 外部からの衝撃による損傷の防止 | 貫通部止水処理 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 貯留庫 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 津波監視カメラ | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 取水ビット水位計 | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 潮位計 | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 竜巻飛来物防護対策設備 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 防火帯 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 隔壁（断熱材） | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添1）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <p>第1表 監視操作機能を有する設計基準対象施設に係る追加設備の抽出（2/2）</p> <table border="1"> <thead> <tr> <th>設置許可</th> <th>設計基準対象施設に係る追加設備の抽出</th> <th>プラントの監視操作</th> </tr> </thead> <tbody> <tr> <td>第八条</td> <td>火災による損傷の防止</td> <td>防火ダンパ 耐火ラッピング</td> <td>—</td> </tr> <tr> <td rowspan="6">第九条</td> <td rowspan="6">漏水による損傷の防止等</td> <td>水密扉</td> <td>—</td> </tr> <tr> <td>水密扉警報盤</td> <td>監視のみ</td> </tr> <tr> <td>復水器エリア漏えい検知器</td> <td>—</td> </tr> <tr> <td>止水壁</td> <td>—</td> </tr> <tr> <td>堰</td> <td>—</td> </tr> <tr> <td>逆流防止ファンネル</td> <td>—</td> </tr> <tr> <td>第十条</td> <td>誤操作の防止</td> <td>なし</td> <td>—</td> </tr> <tr> <td>第十一条</td> <td>安全避難通路等</td> <td>可搬型照明</td> <td>—</td> </tr> <tr> <td>第十二条</td> <td>安全施設</td> <td>なし</td> <td>—</td> </tr> <tr> <td>第十四条</td> <td>全交流動力電源喪失対策設備</td> <td>なし</td> <td>—</td> </tr> <tr> <td rowspan="2">第十六条</td> <td rowspan="2">燃料体等の取扱施設及び貯蔵施設</td> <td>使用済燃料プール水位／温度（ガイドバルブ式）</td> <td>監視のみ</td> </tr> <tr> <td>燃料貯蔵プール水温度高警報</td> <td>監視のみ</td> </tr> <tr> <td>第十七条</td> <td>原子炉冷却材圧力バウンダリ</td> <td>なし</td> <td>—</td> </tr> <tr> <td>第二十四条</td> <td>安全保護回路</td> <td>なし</td> <td>—</td> </tr> <tr> <td rowspan="5">第二十六条</td> <td rowspan="5">原子炉制御室等</td> <td>摩滅監視カメラ</td> <td>監視のみ</td> </tr> <tr> <td>自然現象監視カメラ</td> <td>監視のみ</td> </tr> <tr> <td>摩滅濃度計</td> <td>—</td> </tr> <tr> <td>二酸化炭素濃度計</td> <td>—</td> </tr> <tr> <td>取水ピット水位計</td> <td>監視のみ</td> </tr> <tr> <td>第三十一条</td> <td>監視設備</td> <td>モニタリングポスト（無線）</td> <td>—</td> </tr> <tr> <td>第三十三条</td> <td>保安電源設備</td> <td>高圧炉心スプレイドーゼル 発電設備軽油タンク</td> <td>—</td> </tr> <tr> <td>第三十四条</td> <td>緊急時対策用</td> <td>摩滅濃度計 二酸化炭素濃度計</td> <td>—</td> </tr> <tr> <td rowspan="10">第三十五条</td> <td rowspan="10">通信連絡設備</td> <td>携行型連絡装置</td> <td>—</td> </tr> <tr> <td>トランシーバ（固定）</td> <td>—</td> </tr> <tr> <td>トランシーバ（携帯）</td> <td>—</td> </tr> <tr> <td>携帯電話（固定）</td> <td>—</td> </tr> <tr> <td>携帯電話（携帯）</td> <td>—</td> </tr> <tr> <td>統合原子力防災ネットワークを用いた通信連絡設備（テレビ会議システム、IP電話、I P F A X）</td> <td>—</td> </tr> <tr> <td>安全パラメータ表示システム（SPDS）（データ収集装置、SPDS 伝送装置）</td> <td>—</td> </tr> <tr> <td>安全パラメータ表示システム（SPDS）（SPDS 表示装置）</td> <td>監視のみ</td> </tr> <tr> <td>データ伝送設備（SPDS 伝送装置）</td> <td>—</td> </tr> <tr> <td>データ伝送設備（SPDS 伝送装置）</td> <td>—</td> </tr> </tbody> </table> | 設置許可 | 設計基準対象施設に係る追加設備の抽出 | プラントの監視操作 | 第八条 | 火災による損傷の防止 | 防火ダンパ 耐火ラッピング | — | 第九条 | 漏水による損傷の防止等 | 水密扉 | — | 水密扉警報盤 | 監視のみ | 復水器エリア漏えい検知器 | — | 止水壁 | — | 堰 | — | 逆流防止ファンネル | — | 第十条 | 誤操作の防止 | なし | — | 第十一条 | 安全避難通路等 | 可搬型照明 | — | 第十二条 | 安全施設 | なし | — | 第十四条 | 全交流動力電源喪失対策設備 | なし | — | 第十六条 | 燃料体等の取扱施設及び貯蔵施設 | 使用済燃料プール水位／温度（ガイドバルブ式） | 監視のみ | 燃料貯蔵プール水温度高警報 | 監視のみ | 第十七条 | 原子炉冷却材圧力バウンダリ | なし | — | 第二十四条 | 安全保護回路 | なし | — | 第二十六条 | 原子炉制御室等 | 摩滅監視カメラ | 監視のみ | 自然現象監視カメラ | 監視のみ | 摩滅濃度計 | — | 二酸化炭素濃度計 | — | 取水ピット水位計 | 監視のみ | 第三十一条 | 監視設備 | モニタリングポスト（無線） | — | 第三十三条 | 保安電源設備 | 高圧炉心スプレイドーゼル 発電設備軽油タンク | — | 第三十四条 | 緊急時対策用 | 摩滅濃度計 二酸化炭素濃度計 | — | 第三十五条 | 通信連絡設備 | 携行型連絡装置 | — | トランシーバ（固定） | — | トランシーバ（携帯） | — | 携帯電話（固定） | — | 携帯電話（携帯） | — | 統合原子力防災ネットワークを用いた通信連絡設備（テレビ会議システム、IP電話、I P F A X） | — | 安全パラメータ表示システム（SPDS）（データ収集装置、SPDS 伝送装置） | — | 安全パラメータ表示システム（SPDS）（SPDS 表示装置） | 監視のみ | データ伝送設備（SPDS 伝送装置） | — | データ伝送設備（SPDS 伝送装置） | — | <p>表1 監視操作機能を有する設計基準対象追加設備の抽出（2/3）</p> <table border="1"> <thead> <tr> <th>設置許可</th> <th>設計基準対象追加設備の抽出</th> <th>プラントの監視操作</th> </tr> </thead> <tbody> <tr> <td>7条</td> <td>不法な侵入等の防止</td> <td>なし</td> <td>—</td> </tr> <tr> <td rowspan="10">8条</td> <td rowspan="10">火災による損傷の防止</td> <td>ドレンパン、ドレンポット</td> <td>—</td> </tr> <tr> <td>水素濃度検出器</td> <td>監視のみ</td> </tr> <tr> <td>火災受信機盤</td> <td>監視操作</td> </tr> <tr> <td>ハロゲン化物消火設備</td> <td>監視操作</td> </tr> <tr> <td>二酸化炭素消火設備</td> <td>監視操作</td> </tr> <tr> <td>蓄電池を内蔵する照明器具</td> <td>—</td> </tr> <tr> <td>煙の流入防止装置（目皿）</td> <td>—</td> </tr> <tr> <td>煙検出装置（中央制御室内）</td> <td>監視のみ</td> </tr> <tr> <td>可搬型排煙装置</td> <td>—</td> </tr> <tr> <td>漏電等</td> <td>—</td> </tr> <tr> <td rowspan="10">9条</td> <td rowspan="10">漏水による損傷の防止等</td> <td>止水板</td> <td>—</td> </tr> <tr> <td>貫通部止水処置</td> <td>—</td> </tr> <tr> <td>浸水防止堰</td> <td>—</td> </tr> <tr> <td>水密扉</td> <td>—</td> </tr> <tr> <td>ハッチ</td> <td>—</td> </tr> <tr> <td>保護カバー、パッキン等による被水防護措置</td> <td>—</td> </tr> <tr> <td>漏えい検知システム</td> <td>監視操作</td> </tr> <tr> <td>ドレンライン逆止弁</td> <td>—</td> </tr> <tr> <td>循環水ポンプ自動停止インターロック</td> <td>監視操作</td> </tr> <tr> <td>10条</td> <td>誤操作の防止</td> <td>なし</td> <td>—</td> </tr> <tr> <td>11条</td> <td>安全避難通路等</td> <td>無停電運転保安灯</td> <td>—</td> </tr> <tr> <td>12条</td> <td>安全施設</td> <td>格納容器スプレイドーゼル</td> <td>—</td> </tr> <tr> <td>14条</td> <td>全交流動力電源喪失対策設備</td> <td>なし</td> <td>—</td> </tr> <tr> <td>16条</td> <td>燃料体等の取扱設備及び貯蔵設備</td> <td>なし</td> <td>—</td> </tr> <tr> <td>17条</td> <td>原子炉冷却材圧力バウンダリ</td> <td>なし</td> <td>—</td> </tr> <tr> <td>24条</td> <td>安全保護回路</td> <td>なし</td> <td>—</td> </tr> </tbody> </table> | 設置許可 | 設計基準対象追加設備の抽出 | プラントの監視操作 | 7条 | 不法な侵入等の防止 | なし | — | 8条 | 火災による損傷の防止 | ドレンパン、ドレンポット | — | 水素濃度検出器 | 監視のみ | 火災受信機盤 | 監視操作 | ハロゲン化物消火設備 | 監視操作 | 二酸化炭素消火設備 | 監視操作 | 蓄電池を内蔵する照明器具 | — | 煙の流入防止装置（目皿） | — | 煙検出装置（中央制御室内） | 監視のみ | 可搬型排煙装置 | — | 漏電等 | — | 9条 | 漏水による損傷の防止等 | 止水板 | — | 貫通部止水処置 | — | 浸水防止堰 | — | 水密扉 | — | ハッチ | — | 保護カバー、パッキン等による被水防護措置 | — | 漏えい検知システム | 監視操作 | ドレンライン逆止弁 | — | 循環水ポンプ自動停止インターロック | 監視操作 | 10条 | 誤操作の防止 | なし | — | 11条 | 安全避難通路等 | 無停電運転保安灯 | — | 12条 | 安全施設 | 格納容器スプレイドーゼル | — | 14条 | 全交流動力電源喪失対策設備 | なし | — | 16条 | 燃料体等の取扱設備及び貯蔵設備 | なし | — | 17条 | 原子炉冷却材圧力バウンダリ | なし | — | 24条 | 安全保護回路 | なし | — | <p>【女川】 設備の相違 ・抽出された設備は異なるが考え方は女川と泊で同様である。</p> |
| 設置許可 | 設計基準対象施設に係る追加設備の抽出 | プラントの監視操作 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第八条 | 火災による損傷の防止 | 防火ダンパ 耐火ラッピング | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第九条 | 漏水による損傷の防止等 | 水密扉 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 水密扉警報盤 | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 復水器エリア漏えい検知器 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 止水壁 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 堰 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 逆流防止ファンネル | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第十条 | 誤操作の防止 | なし | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 第十二条 | 安全施設 | なし | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第十四条 | 全交流動力電源喪失対策設備 | なし | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第十六条 | 燃料体等の取扱施設及び貯蔵施設 | 使用済燃料プール水位／温度（ガイドバルブ式） | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 燃料貯蔵プール水温度高警報 | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第十七条 | 原子炉冷却材圧力バウンダリ | なし | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第二十四条 | 安全保護回路 | なし | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | 自然現象監視カメラ | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 摩滅濃度計 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 二酸化炭素濃度計 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 取水ピット水位計 | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第三十一条 | 監視設備 | モニタリングポスト（無線） | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第三十三条 | 保安電源設備 | 高圧炉心スプレイドーゼル 発電設備軽油タンク | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第三十四条 | 緊急時対策用 | 摩滅濃度計 二酸化炭素濃度計 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第三十五条 | 通信連絡設備 | 携行型連絡装置 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | トランシーバ（固定） | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | トランシーバ（携帯） | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 携帯電話（固定） | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 携帯電話（携帯） | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 統合原子力防災ネットワークを用いた通信連絡設備（テレビ会議システム、IP電話、I P F A X） | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 安全パラメータ表示システム（SPDS）（データ収集装置、SPDS 伝送装置） | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 安全パラメータ表示システム（SPDS）（SPDS 表示装置） | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | データ伝送設備（SPDS 伝送装置） | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | データ伝送設備（SPDS 伝送装置） | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 設置許可 | 設計基準対象追加設備の抽出 | プラントの監視操作 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7条 | 不法な侵入等の防止 | なし | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8条 | 火災による損傷の防止 | ドレンパン、ドレンポット | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 水素濃度検出器 | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 火災受信機盤 | 監視操作 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ハロゲン化物消火設備 | 監視操作 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 二酸化炭素消火設備 | 監視操作 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 蓄電池を内蔵する照明器具 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 煙の流入防止装置（目皿） | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 煙検出装置（中央制御室内） | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 可搬型排煙装置 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 漏電等 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9条 | 漏水による損傷の防止等 | 止水板 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 貫通部止水処置 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 浸水防止堰 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 水密扉 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ハッチ | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 保護カバー、パッキン等による被水防護措置 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 漏えい検知システム | 監視操作 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ドレンライン逆止弁 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 循環水ポンプ自動停止インターロック | 監視操作 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 10条 | 誤操作の防止 | なし | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11条 | 安全避難通路等 | 無停電運転保安灯 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12条 | 安全施設 | 格納容器スプレイドーゼル | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14条 | 全交流動力電源喪失対策設備 | なし | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16条 | 燃料体等の取扱設備及び貯蔵設備 | なし | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17条 | 原子炉冷却材圧力バウンダリ | なし | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24条 | 安全保護回路 | なし | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | <p style="text-align: center;">表1 監視操作機能を有する設計基準対象追加設備の抽出 (3/3)</p> <table border="1"> <thead> <tr> <th>設置許可</th> <th>設計基準対象追加設備の抽出</th> <th>プラントの監視操作</th> </tr> </thead> <tbody> <tr> <td rowspan="4">26条 原子炉制御室等</td> <td>酸素濃度・二酸化炭素濃度計</td> <td>—</td> </tr> <tr> <td>取水ピット水位計</td> <td>監視のみ</td> </tr> <tr> <td>開位計</td> <td>監視のみ</td> </tr> <tr> <td>津波監視カメラ</td> <td>監視のみ</td> </tr> <tr> <td rowspan="6">31条 監視設備</td> <td>構内監視カメラ</td> <td>監視のみ</td> </tr> <tr> <td>モニタリングポスト用データ伝送系（有線）</td> <td>—</td> </tr> <tr> <td>モニタリングステーション用データ伝送系（有線）</td> <td>—</td> </tr> <tr> <td>モニタリングポスト用データ伝送系（無線）</td> <td>—</td> </tr> <tr> <td>モニタリングステーション用データ伝送系（無線）</td> <td>—</td> </tr> <tr> <td>無停電電源装置</td> <td>—</td> </tr> <tr> <td rowspan="2">33条 保安電源設備</td> <td>3号炉環境監視盤</td> <td>監視のみ</td> </tr> <tr> <td>ディーゼル発電機燃料油貯油槽</td> <td>監視のみ</td> </tr> <tr> <td rowspan="8">34条 緊急時対策所</td> <td>66kV 開閉所（後備用）及び後備変圧器</td> <td>監視操作</td> </tr> <tr> <td>緊急時対策所</td> <td>—</td> </tr> <tr> <td>衛星電話設備</td> <td>—</td> </tr> <tr> <td>無線連絡設備</td> <td>—</td> </tr> <tr> <td>統合原子力防災ネットワークを用いた通信連絡設備</td> <td>—</td> </tr> <tr> <td>酸素濃度・二酸化炭素濃度計</td> <td>—</td> </tr> <tr> <td>データ表示端末</td> <td>監視のみ</td> </tr> <tr> <td>データ収集計算機</td> <td>—</td> </tr> <tr> <td>ERSS 伝送サーバ</td> <td>—</td> </tr> <tr> <td rowspan="6">35条 通信連絡設備</td> <td>無線連絡設備</td> <td>—</td> </tr> <tr> <td>携帯型通話装置</td> <td>—</td> </tr> <tr> <td>衛星電話設備</td> <td>—</td> </tr> <tr> <td>データ収集計算機</td> <td>—</td> </tr> <tr> <td>データ表示端末</td> <td>監視のみ</td> </tr> <tr> <td>統合原子力防災ネットワークを用いた通信連絡設備</td> <td>—</td> </tr> <tr> <td>ERSS 伝送サーバ</td> <td>—</td> </tr> </tbody> </table> | 設置許可 | 設計基準対象追加設備の抽出 | プラントの監視操作 | 26条 原子炉制御室等 | 酸素濃度・二酸化炭素濃度計 | — | 取水ピット水位計 | 監視のみ | 開位計 | 監視のみ | 津波監視カメラ | 監視のみ | 31条 監視設備 | 構内監視カメラ | 監視のみ | モニタリングポスト用データ伝送系（有線） | — | モニタリングステーション用データ伝送系（有線） | — | モニタリングポスト用データ伝送系（無線） | — | モニタリングステーション用データ伝送系（無線） | — | 無停電電源装置 | — | 33条 保安電源設備 | 3号炉環境監視盤 | 監視のみ | ディーゼル発電機燃料油貯油槽 | 監視のみ | 34条 緊急時対策所 | 66kV 開閉所（後備用）及び後備変圧器 | 監視操作 | 緊急時対策所 | — | 衛星電話設備 | — | 無線連絡設備 | — | 統合原子力防災ネットワークを用いた通信連絡設備 | — | 酸素濃度・二酸化炭素濃度計 | — | データ表示端末 | 監視のみ | データ収集計算機 | — | ERSS 伝送サーバ | — | 35条 通信連絡設備 | 無線連絡設備 | — | 携帯型通話装置 | — | 衛星電話設備 | — | データ収集計算機 | — | データ表示端末 | 監視のみ | 統合原子力防災ネットワークを用いた通信連絡設備 | — | ERSS 伝送サーバ | — | <p>【女川】 設備の相違 ・抽出された設備は異なるが考え方は女川と泊で同様である。</p> |
| 設置許可 | 設計基準対象追加設備の抽出 | プラントの監視操作 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26条 原子炉制御室等 | 酸素濃度・二酸化炭素濃度計 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 取水ピット水位計 | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 開位計 | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 津波監視カメラ | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31条 監視設備 | 構内監視カメラ | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | モニタリングポスト用データ伝送系（有線） | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | モニタリングステーション用データ伝送系（有線） | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | モニタリングポスト用データ伝送系（無線） | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | モニタリングステーション用データ伝送系（無線） | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 無停電電源装置 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33条 保安電源設備 | 3号炉環境監視盤 | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ディーゼル発電機燃料油貯油槽 | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34条 緊急時対策所 | 66kV 開閉所（後備用）及び後備変圧器 | 監視操作 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 緊急時対策所 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 衛星電話設備 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 無線連絡設備 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 統合原子力防災ネットワークを用いた通信連絡設備 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 酸素濃度・二酸化炭素濃度計 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | データ表示端末 | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | データ収集計算機 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ERSS 伝送サーバ | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35条 通信連絡設備 | 無線連絡設備 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 携帯型通話装置 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 衛星電話設備 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | データ収集計算機 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | データ表示端末 | 監視のみ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 統合原子力防災ネットワークを用いた通信連絡設備 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ERSS 伝送サーバ | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <p>2. 新規制基準適合性申請において新たに設置計画している設計基準対象施設に係る追加設備の誤操作防止について</p> <p>1. 項で整理した監視操作機能を有する設備について、下記(1)～(12)のとおり誤操作防止に係る設計考慮事項を評価し、設置許可基準規則第10条第1項に適合していることを確認した。</p> <p>(1) 地下水位低下設備監視盤</p> <table border="1" data-bbox="750 352 1312 563"> <tr><td>盤配置及び作業空間</td><td>独立盤であり、他操作による画面展開はない。</td></tr> <tr><td>盤面配置</td><td>表示や操作ボタンはコーディングの考え方を反映している。</td></tr> <tr><td>情報表示機能</td><td>操作対象は1区画ずつの表示としている。</td></tr> <tr><td>警報機能</td><td>吹鳴、確認、点灯等、中央制御盤と同等の機能としている。</td></tr> <tr><td>制御機能</td><td>—</td></tr> </table> <p>(2) 津波監視カメラ</p> <table border="1" data-bbox="750 619 1312 772"> <tr><td>盤配置及び作業空間</td><td>独立パネルであり、他操作による画面展開はない。</td></tr> <tr><td>盤面配置</td><td>ディスプレイ表示である。</td></tr> <tr><td>情報表示機能</td><td>—</td></tr> <tr><td>警報機能</td><td>—</td></tr> <tr><td>制御機能</td><td>—</td></tr> </table> <p>(3) 取水ビット水位計</p> <table border="1" data-bbox="750 828 1312 1010"> <tr><td>盤配置及び作業空間</td><td>中央制御室の記録計で監視可能な設計としている。</td></tr> <tr><td>盤面配置</td><td>表示(警報)窓と記録計はコーディングの考え方を反映している。</td></tr> <tr><td>情報表示機能</td><td>—</td></tr> <tr><td>警報機能</td><td>吹鳴、確認、点灯等、中央制御盤と同等の機能としている。</td></tr> <tr><td>制御機能</td><td>—</td></tr> </table> <p>(4) 蓄電池室水素濃度検知器</p> <table border="1" data-bbox="750 1066 1312 1219"> <tr><td>盤配置及び作業空間</td><td>独立盤であり、他操作による画面展開はない。</td></tr> <tr><td>盤面配置</td><td>ディスプレイ表示である。</td></tr> <tr><td>情報表示機能</td><td>水素濃度指示計は1箇所ずつの表示としている。</td></tr> <tr><td>警報機能</td><td>吹鳴、確認、点灯等、中央制御盤と同等の機能としている。</td></tr> <tr><td>制御機能</td><td>—</td></tr> </table> <p>(5) 火災感知器</p> <table border="1" data-bbox="750 1275 1312 1447"> <tr><td>盤配置及び作業空間</td><td>独立盤であり、他操作による画面展開はない。</td></tr> <tr><td>盤面配置</td><td>表示や操作ボタンはコーディングの考え方を反映している。</td></tr> <tr><td>情報表示機能</td><td>火災感知箇所は1区画ずつの表示としている。</td></tr> <tr><td>警報機能</td><td>吹鳴、確認、点灯等、中央制御盤と同等の機能としている。</td></tr> <tr><td>制御機能</td><td>—</td></tr> </table> | 盤配置及び作業空間 | 独立盤であり、他操作による画面展開はない。 | 盤面配置 | 表示や操作ボタンはコーディングの考え方を反映している。 | 情報表示機能 | 操作対象は1区画ずつの表示としている。 | 警報機能 | 吹鳴、確認、点灯等、中央制御盤と同等の機能としている。 | 制御機能 | — | 盤配置及び作業空間 | 独立パネルであり、他操作による画面展開はない。 | 盤面配置 | ディスプレイ表示である。 | 情報表示機能 | — | 警報機能 | — | 制御機能 | — | 盤配置及び作業空間 | 中央制御室の記録計で監視可能な設計としている。 | 盤面配置 | 表示(警報)窓と記録計はコーディングの考え方を反映している。 | 情報表示機能 | — | 警報機能 | 吹鳴、確認、点灯等、中央制御盤と同等の機能としている。 | 制御機能 | — | 盤配置及び作業空間 | 独立盤であり、他操作による画面展開はない。 | 盤面配置 | ディスプレイ表示である。 | 情報表示機能 | 水素濃度指示計は1箇所ずつの表示としている。 | 警報機能 | 吹鳴、確認、点灯等、中央制御盤と同等の機能としている。 | 制御機能 | — | 盤配置及び作業空間 | 独立盤であり、他操作による画面展開はない。 | 盤面配置 | 表示や操作ボタンはコーディングの考え方を反映している。 | 情報表示機能 | 火災感知箇所は1区画ずつの表示としている。 | 警報機能 | 吹鳴、確認、点灯等、中央制御盤と同等の機能としている。 | 制御機能 | — | <p>2. 新規制基準適合性申請において新たに設置計画している設計基準対象施設に係る追加設備の誤操作防止について</p> <p>1. 項で整理した監視操作機能を有する設備について、表2のとおり誤操作防止に係る設計考慮事項を評価し、設置許可基準規則第10条第1項に適合していることを確認した。(技術基準に関する規則の解釈(別記-7)「原子炉制御室における誤操作防止のための設備面への要求事項」に照らし合わせて評価を実施)</p> <p>表2 設計基準対象追加設備の誤操作防止について(1/4)</p> <p>(1) 地下水排水設備</p> <table border="1" data-bbox="1375 485 1973 667"> <tr><td>盤配置及び作業空間</td><td>独立盤であり、他作業との輻射を回避できる設計とする。</td></tr> <tr><td>盤面配置</td><td>タッチパネルによる表示及び必要に応じて専用の操作スイッチを設ける設計とする。</td></tr> <tr><td>情報表示機能</td><td>機能又は情報のまとまりごとにグループ分けした画面表示を用いる設計とする。</td></tr> <tr><td>警報機能</td><td>吹鳴、フリッカ、確認、点灯等、中央制御盤と同等の機能を設ける設計とする。</td></tr> <tr><td>制御機能</td><td>タッチパネルによる機器の操作はポップアップ表示によるダブルアクション機能により非安全な操作ができない設計とし、操作スイッチを設ける場合は盤内に設置するか、保護カバーにより非安全な操作が出来ない設計とする。</td></tr> </table> <p>(※今後設置予定の設備であり、設計計画を記載する)</p> <p>(2) 津波監視カメラ</p> <table border="1" data-bbox="1375 722 1973 860"> <tr><td>盤配置及び作業空間</td><td>監視カメラの機能を集約した独立パネル(「構内監視カメラ」と共用)であり、他操作による画面展開はない。</td></tr> <tr><td>盤面配置</td><td>専用ディスプレイによる表示である。</td></tr> <tr><td>情報表示機能</td><td>—</td></tr> <tr><td>警報機能</td><td>—</td></tr> <tr><td>制御機能</td><td>—</td></tr> </table> <p>(3) 取水ビット水位計</p> <table border="1" data-bbox="1375 900 1973 1056"> <tr><td>盤配置及び作業空間</td><td>「船渠水ポンプ停止インターロック」、「漏えい検知システム」と共用の盤であるが、運転操作を行うエリアに設置しており他作業との輻射を回避できる配置となっている。</td></tr> <tr><td>盤面配置</td><td>タッチパネルによる表示である。</td></tr> <tr><td>情報表示機能</td><td>機能又は情報のまとまりごとにグループ分けした画面表示としている。</td></tr> <tr><td>警報機能</td><td>吹鳴、フリッカ、確認、点灯等、中央制御盤と同等の機能としている。</td></tr> <tr><td>制御機能</td><td>—</td></tr> </table> | 盤配置及び作業空間 | 独立盤であり、他作業との輻射を回避できる設計とする。 | 盤面配置 | タッチパネルによる表示及び必要に応じて専用の操作スイッチを設ける設計とする。 | 情報表示機能 | 機能又は情報のまとまりごとにグループ分けした画面表示を用いる設計とする。 | 警報機能 | 吹鳴、フリッカ、確認、点灯等、中央制御盤と同等の機能を設ける設計とする。 | 制御機能 | タッチパネルによる機器の操作はポップアップ表示によるダブルアクション機能により非安全な操作ができない設計とし、操作スイッチを設ける場合は盤内に設置するか、保護カバーにより非安全な操作が出来ない設計とする。 | 盤配置及び作業空間 | 監視カメラの機能を集約した独立パネル(「構内監視カメラ」と共用)であり、他操作による画面展開はない。 | 盤面配置 | 専用ディスプレイによる表示である。 | 情報表示機能 | — | 警報機能 | — | 制御機能 | — | 盤配置及び作業空間 | 「船渠水ポンプ停止インターロック」、「漏えい検知システム」と共用の盤であるが、運転操作を行うエリアに設置しており他作業との輻射を回避できる配置となっている。 | 盤面配置 | タッチパネルによる表示である。 | 情報表示機能 | 機能又は情報のまとまりごとにグループ分けした画面表示としている。 | 警報機能 | 吹鳴、フリッカ、確認、点灯等、中央制御盤と同等の機能としている。 | 制御機能 | — | <p>【女川】 資料名の相違</p> <p>【女川】 記載表現の相違</p> <p>【女川】 設備の相違</p> <p>・抽出された設備は異なるが考え方は女川と泊で同様である。</p> |
| 盤配置及び作業空間 | 独立盤であり、他操作による画面展開はない。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | 表示や操作ボタンはコーディングの考え方を反映している。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | 操作対象は1区画ずつの表示としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | 吹鳴、確認、点灯等、中央制御盤と同等の機能としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 独立パネルであり、他操作による画面展開はない。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | ディスプレイ表示である。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 中央制御室の記録計で監視可能な設計としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | 表示(警報)窓と記録計はコーディングの考え方を反映している。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | 吹鳴、確認、点灯等、中央制御盤と同等の機能としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 独立盤であり、他操作による画面展開はない。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | ディスプレイ表示である。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | 水素濃度指示計は1箇所ずつの表示としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | 吹鳴、確認、点灯等、中央制御盤と同等の機能としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 独立盤であり、他操作による画面展開はない。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | 表示や操作ボタンはコーディングの考え方を反映している。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | 火災感知箇所は1区画ずつの表示としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | 吹鳴、確認、点灯等、中央制御盤と同等の機能としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 独立盤であり、他作業との輻射を回避できる設計とする。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | タッチパネルによる表示及び必要に応じて専用の操作スイッチを設ける設計とする。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | 機能又は情報のまとまりごとにグループ分けした画面表示を用いる設計とする。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | 吹鳴、フリッカ、確認、点灯等、中央制御盤と同等の機能を設ける設計とする。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | タッチパネルによる機器の操作はポップアップ表示によるダブルアクション機能により非安全な操作ができない設計とし、操作スイッチを設ける場合は盤内に設置するか、保護カバーにより非安全な操作が出来ない設計とする。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 監視カメラの機能を集約した独立パネル(「構内監視カメラ」と共用)であり、他操作による画面展開はない。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | 専用ディスプレイによる表示である。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 「船渠水ポンプ停止インターロック」、「漏えい検知システム」と共用の盤であるが、運転操作を行うエリアに設置しており他作業との輻射を回避できる配置となっている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | タッチパネルによる表示である。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | 機能又は情報のまとまりごとにグループ分けした画面表示としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | 吹鳴、フリッカ、確認、点灯等、中央制御盤と同等の機能としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |


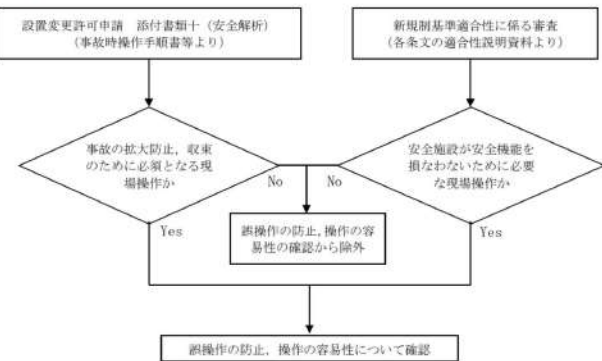
赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|-----------|-----------------------|------|-----------------------------|--------|-----------------------|------|-----------------------------|------|---|-----------|-----------------------|------|-----------------------------|--------|-----------------------|------|-----------------------------|------|---|-----------|-----------------------|------|----------------------|--------|---|------|-----------------------------|------|---|-----------|-------------------------|------|--------------------------------|--------|---|------|-----------------------------|------|---|--|-----------|-------------------------|------|-------------------|--------|---|------|---|------|---|-----------|---|------|-------------------------------|--------|----------------------------------|------|----------------------------------|------|--------------------------------------|-----------|-------------------------------|------|------------------------------|--------|---|------|----------------------------|------|---|-----------|-------------------------------|------|---------------------------------|--------|----------------------------------|------|----------------------------------|------|----------------------------------|-----------|-------------------------------|------|------------------------|--------|-------------------|------|----------------------------------|------|--|--|
| | <p>(6) 全域ガス消火設備</p> <table border="1" data-bbox="734 236 1337 424"> <tr> <td>盤配置及び作業空間</td> <td>独立盤であり、他操作による画面展開はない。</td> </tr> <tr> <td>盤面配置</td> <td>表示や操作ボタンはコーディングの考え方を反映している。</td> </tr> <tr> <td>情報表示機能</td> <td>消火対象箇所は1区画ずつの表示としている。</td> </tr> <tr> <td>警報機能</td> <td>吹鳴、確認、点灯等、中央制御盤と同等の機能としている。</td> </tr> <tr> <td>制御機能</td> <td>—</td> </tr> </table> <p>(7) 局所ガス消火設備</p> <table border="1" data-bbox="734 475 1337 663"> <tr> <td>盤配置及び作業空間</td> <td>独立盤であり、他操作による画面展開はない。</td> </tr> <tr> <td>盤面配置</td> <td>表示や操作ボタンはコーディングの考え方を反映している。</td> </tr> <tr> <td>情報表示機能</td> <td>消火対象箇所は1区画ずつの表示としている。</td> </tr> <tr> <td>警報機能</td> <td>吹鳴、確認、点灯等、中央制御盤と同等の機能としている。</td> </tr> <tr> <td>制御機能</td> <td>—</td> </tr> </table> <p>(8) 水密扉警報盤</p> <table border="1" data-bbox="734 715 1337 903"> <tr> <td>盤配置及び作業空間</td> <td>独立盤であり、他操作による画面展開はない。</td> </tr> <tr> <td>盤面配置</td> <td>表示（警報）窓、ディスプレイ表示である。</td> </tr> <tr> <td>情報表示機能</td> <td>—</td> </tr> <tr> <td>警報機能</td> <td>吹鳴、確認、点灯等、中央制御盤と同等の機能としている。</td> </tr> <tr> <td>制御機能</td> <td>—</td> </tr> </table> <p>(9) 使用済燃料プール水位/温度（ガイドパルス式）</p> <table border="1" data-bbox="734 954 1337 1142"> <tr> <td>盤配置及び作業空間</td> <td>中央制御室の記録計で監視可能な設計としている。</td> </tr> <tr> <td>盤面配置</td> <td>表示（警報）窓と記録計はコーディングの考え方を反映している。</td> </tr> <tr> <td>情報表示機能</td> <td>—</td> </tr> <tr> <td>警報機能</td> <td>吹鳴、確認、点灯等、中央制御盤と同等の機能としている。</td> </tr> <tr> <td>制御機能</td> <td>—</td> </tr> </table> | 盤配置及び作業空間 | 独立盤であり、他操作による画面展開はない。 | 盤面配置 | 表示や操作ボタンはコーディングの考え方を反映している。 | 情報表示機能 | 消火対象箇所は1区画ずつの表示としている。 | 警報機能 | 吹鳴、確認、点灯等、中央制御盤と同等の機能としている。 | 制御機能 | — | 盤配置及び作業空間 | 独立盤であり、他操作による画面展開はない。 | 盤面配置 | 表示や操作ボタンはコーディングの考え方を反映している。 | 情報表示機能 | 消火対象箇所は1区画ずつの表示としている。 | 警報機能 | 吹鳴、確認、点灯等、中央制御盤と同等の機能としている。 | 制御機能 | — | 盤配置及び作業空間 | 独立盤であり、他操作による画面展開はない。 | 盤面配置 | 表示（警報）窓、ディスプレイ表示である。 | 情報表示機能 | — | 警報機能 | 吹鳴、確認、点灯等、中央制御盤と同等の機能としている。 | 制御機能 | — | 盤配置及び作業空間 | 中央制御室の記録計で監視可能な設計としている。 | 盤面配置 | 表示（警報）窓と記録計はコーディングの考え方を反映している。 | 情報表示機能 | — | 警報機能 | 吹鳴、確認、点灯等、中央制御盤と同等の機能としている。 | 制御機能 | — | <p>表2 設計基準対象追加設備の誤操作防止について（2/4）</p> <p>(4) 潮位計</p> <table border="1" data-bbox="1382 209 1973 328"> <tr> <td>盤配置及び作業空間</td> <td>独立パネルであり、他操作による画面展開はない。</td> </tr> <tr> <td>盤面配置</td> <td>専用ディスプレイによる表示である。</td> </tr> <tr> <td>情報表示機能</td> <td>—</td> </tr> <tr> <td>警報機能</td> <td>—</td> </tr> <tr> <td>制御機能</td> <td>—</td> </tr> </table> <p>(5) 循環水ポンプ自動停止インターロック</p> <table border="1" data-bbox="1382 360 1973 496"> <tr> <td>盤配置及び作業空間</td> <td>「取水ビット水位計」、「漏えい検知システム」と共用の盤であるが、運転操作を行うエリアに設置しており他作業との輻輳を回避できる配置となっている。</td> </tr> <tr> <td>盤面配置</td> <td>タッチパネルによる表示及び専用の操作スイッチを設けている。</td> </tr> <tr> <td>情報表示機能</td> <td>機速又は情報のまとまりごとにグループ分けした画面表示としている。</td> </tr> <tr> <td>警報機能</td> <td>吹鳴、フリッカ、確認、点灯等、中央制御盤と同等の機能としている。</td> </tr> <tr> <td>制御機能</td> <td>操作スイッチは盤内に設置しており非安全な操作ができないようになっている。</td> </tr> </table> <p>(6) 水素濃度検出器</p> <table border="1" data-bbox="1382 528 1973 647"> <tr> <td>盤配置及び作業空間</td> <td>独立盤であり、他作業との輻輳を回避できる配置となっている。</td> </tr> <tr> <td>盤面配置</td> <td>表示（警報）と指示計を盤面の見やすい位置に配置している。</td> </tr> <tr> <td>情報表示機能</td> <td>—</td> </tr> <tr> <td>警報機能</td> <td>吹鳴、点灯により警報発信を認識できる機能としている。</td> </tr> <tr> <td>制御機能</td> <td>—</td> </tr> </table> <p>(7) 火災受信機盤</p> <table border="1" data-bbox="1382 679 1973 799"> <tr> <td>盤配置及び作業空間</td> <td>独立盤であり、他作業との輻輳を回避できる配置となっている。</td> </tr> <tr> <td>盤面配置</td> <td>専用ディスプレイによる表示及び専用の操作スイッチを設けている。</td> </tr> <tr> <td>情報表示機能</td> <td>機能又は情報のまとまりごとにグループ分けした画面表示としている。</td> </tr> <tr> <td>警報機能</td> <td>吹鳴、フリッカ、確認、点灯等、中央制御盤と同等の機能としている。</td> </tr> <tr> <td>制御機能</td> <td>スイッチ保護カバーにより非安全な操作ができないようになっている。</td> </tr> </table> <p>(8) ハロゲン化物消火設備</p> <table border="1" data-bbox="1382 831 1973 967"> <tr> <td>盤配置及び作業空間</td> <td>独立盤であり、他作業との輻輳を回避できる配置となっている。</td> </tr> <tr> <td>盤面配置</td> <td>タッチパネル及び表示灯を盤面に設置している。</td> </tr> <tr> <td>情報表示機能</td> <td>消火対象区画ごとの表示としている。</td> </tr> <tr> <td>警報機能</td> <td>吹鳴、フリッカ、確認、点灯等、中央制御盤と同等の機能としている。</td> </tr> <tr> <td>制御機能</td> <td>手動での操作スイッチは手動起動盤内部に設置されており非安全な操作ができないようになっている。</td> </tr> </table> | 盤配置及び作業空間 | 独立パネルであり、他操作による画面展開はない。 | 盤面配置 | 専用ディスプレイによる表示である。 | 情報表示機能 | — | 警報機能 | — | 制御機能 | — | 盤配置及び作業空間 | 「取水ビット水位計」、「漏えい検知システム」と共用の盤であるが、運転操作を行うエリアに設置しており他作業との輻輳を回避できる配置となっている。 | 盤面配置 | タッチパネルによる表示及び専用の操作スイッチを設けている。 | 情報表示機能 | 機速又は情報のまとまりごとにグループ分けした画面表示としている。 | 警報機能 | 吹鳴、フリッカ、確認、点灯等、中央制御盤と同等の機能としている。 | 制御機能 | 操作スイッチは盤内に設置しており非安全な操作ができないようになっている。 | 盤配置及び作業空間 | 独立盤であり、他作業との輻輳を回避できる配置となっている。 | 盤面配置 | 表示（警報）と指示計を盤面の見やすい位置に配置している。 | 情報表示機能 | — | 警報機能 | 吹鳴、点灯により警報発信を認識できる機能としている。 | 制御機能 | — | 盤配置及び作業空間 | 独立盤であり、他作業との輻輳を回避できる配置となっている。 | 盤面配置 | 専用ディスプレイによる表示及び専用の操作スイッチを設けている。 | 情報表示機能 | 機能又は情報のまとまりごとにグループ分けした画面表示としている。 | 警報機能 | 吹鳴、フリッカ、確認、点灯等、中央制御盤と同等の機能としている。 | 制御機能 | スイッチ保護カバーにより非安全な操作ができないようになっている。 | 盤配置及び作業空間 | 独立盤であり、他作業との輻輳を回避できる配置となっている。 | 盤面配置 | タッチパネル及び表示灯を盤面に設置している。 | 情報表示機能 | 消火対象区画ごとの表示としている。 | 警報機能 | 吹鳴、フリッカ、確認、点灯等、中央制御盤と同等の機能としている。 | 制御機能 | 手動での操作スイッチは手動起動盤内部に設置されており非安全な操作ができないようになっている。 | <p>【女川】 設備の相違 ・抽出された設備は異なるが考え方は女川と泊で同様である。</p> |
| 盤配置及び作業空間 | 独立盤であり、他操作による画面展開はない。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | 表示や操作ボタンはコーディングの考え方を反映している。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | 消火対象箇所は1区画ずつの表示としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | 吹鳴、確認、点灯等、中央制御盤と同等の機能としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 独立盤であり、他操作による画面展開はない。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | 表示や操作ボタンはコーディングの考え方を反映している。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 警報機能 | 吹鳴、確認、点灯等、中央制御盤と同等の機能としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 独立盤であり、他操作による画面展開はない。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | 表示（警報）窓、ディスプレイ表示である。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | 吹鳴、確認、点灯等、中央制御盤と同等の機能としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 中央制御室の記録計で監視可能な設計としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | 表示（警報）窓と記録計はコーディングの考え方を反映している。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | 吹鳴、確認、点灯等、中央制御盤と同等の機能としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 独立パネルであり、他操作による画面展開はない。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | 専用ディスプレイによる表示である。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 「取水ビット水位計」、「漏えい検知システム」と共用の盤であるが、運転操作を行うエリアに設置しており他作業との輻輳を回避できる配置となっている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | タッチパネルによる表示及び専用の操作スイッチを設けている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | 機速又は情報のまとまりごとにグループ分けした画面表示としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | 吹鳴、フリッカ、確認、点灯等、中央制御盤と同等の機能としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | 操作スイッチは盤内に設置しており非安全な操作ができないようになっている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 独立盤であり、他作業との輻輳を回避できる配置となっている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | 表示（警報）と指示計を盤面の見やすい位置に配置している。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | 吹鳴、点灯により警報発信を認識できる機能としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 独立盤であり、他作業との輻輳を回避できる配置となっている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | 専用ディスプレイによる表示及び専用の操作スイッチを設けている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | 機能又は情報のまとまりごとにグループ分けした画面表示としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | 吹鳴、フリッカ、確認、点灯等、中央制御盤と同等の機能としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | スイッチ保護カバーにより非安全な操作ができないようになっている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 独立盤であり、他作業との輻輳を回避できる配置となっている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | タッチパネル及び表示灯を盤面に設置している。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | 消火対象区画ごとの表示としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | 吹鳴、フリッカ、確認、点灯等、中央制御盤と同等の機能としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | 手動での操作スイッチは手動起動盤内部に設置されており非安全な操作ができないようになっている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|-----------|--------------------------|------|----------------------------|--------|---|------|-----------------------------|------|---|-----------|-------------------------|------|--------------|--------|---|------|---|------|---|-----------|-------------------------|------|--------------|--------|---|------|---|------|---|---|-----------|-------------------------------|------|----------------|--------|-------------------|------|----------------------------------|------|--|-----------|-----------------------------------|------|---|--------|---|------|-------------------------|------|---|-----------|---|------|-----------------|--------|----------------------------------|------|----------------------------------|------|--|-----------|--|------|-------------------|--------|---|------|---|------|---|-----------|-------------------------------|------|---------------------------|--------|---|------|---------------------------------------|------|---|-----------|--|------|----|--------|----|------|----|------|---|-----------|---------------------|------|---------------------|--------|----------------------------------|------|---------------------------------------|------|-----------------------------------|-----------|-------------------------|------|-------------------|--------|---|------|---|------|---|--|
| | <p>(10) 燃料貯蔵プール水温度高警報</p> <table border="1" data-bbox="741 248 1335 427"> <tr> <td>盤配置及び作業空間</td> <td>中央制御室の警報表示で監視可能な設計としている。</td> </tr> <tr> <td>盤面配置</td> <td>表示(警報)窓はコーディングの考え方を反映している。</td> </tr> <tr> <td>情報表示機能</td> <td>—</td> </tr> <tr> <td>警報機能</td> <td>吹鳴、確認、点灯等、中央制御室と同等の機能としている。</td> </tr> <tr> <td>制御機能</td> <td>—</td> </tr> </table> <p>(11) 自然現象監視カメラ</p> <table border="1" data-bbox="741 485 1335 647"> <tr> <td>盤配置及び作業空間</td> <td>独立パネルであり、他操作による画面展開はない。</td> </tr> <tr> <td>盤面配置</td> <td>ディスプレイ表示である。</td> </tr> <tr> <td>情報表示機能</td> <td>—</td> </tr> <tr> <td>警報機能</td> <td>—</td> </tr> <tr> <td>制御機能</td> <td>—</td> </tr> </table> <p>(12) 安全パラメータ表示システム (SPDS) (SPDS 表示装置)</p> <table border="1" data-bbox="741 724 1335 871"> <tr> <td>盤配置及び作業空間</td> <td>独立パネルであり、他操作による画面展開はない。</td> </tr> <tr> <td>盤面配置</td> <td>ディスプレイ表示である。</td> </tr> <tr> <td>情報表示機能</td> <td>—</td> </tr> <tr> <td>警報機能</td> <td>—</td> </tr> <tr> <td>制御機能</td> <td>—</td> </tr> </table> | 盤配置及び作業空間 | 中央制御室の警報表示で監視可能な設計としている。 | 盤面配置 | 表示(警報)窓はコーディングの考え方を反映している。 | 情報表示機能 | — | 警報機能 | 吹鳴、確認、点灯等、中央制御室と同等の機能としている。 | 制御機能 | — | 盤配置及び作業空間 | 独立パネルであり、他操作による画面展開はない。 | 盤面配置 | ディスプレイ表示である。 | 情報表示機能 | — | 警報機能 | — | 制御機能 | — | 盤配置及び作業空間 | 独立パネルであり、他操作による画面展開はない。 | 盤面配置 | ディスプレイ表示である。 | 情報表示機能 | — | 警報機能 | — | 制御機能 | — | <p>表2 設計基準対象追加設備の誤操作防止について (3/4)</p> <p>(9) 二酸化炭素消火設備</p> <table border="1" data-bbox="1373 185 1917 312"> <tr> <td>盤配置及び作業空間</td> <td>独立盤であり、他作業との輻輳を回避できる配置となっている。</td> </tr> <tr> <td>盤面配置</td> <td>表示灯を盤面に設置している。</td> </tr> <tr> <td>情報表示機能</td> <td>消火対象区画ごとの表示としている。</td> </tr> <tr> <td>警報機能</td> <td>吹鳴、フリッカ、確認、点灯等、中央制御室と同等の機能としている。</td> </tr> <tr> <td>制御機能</td> <td>手動での操作スイッチは手動起動盤内部に設置されており非安全な操作ができないようになっている。</td> </tr> </table> <p>(10) 煙検出装置 (中央制御室内)</p> <table border="1" data-bbox="1373 341 1917 453"> <tr> <td>盤配置及び作業空間</td> <td>装置本体で機能を発揮する設備であり、監視対象の盤内に設置している。</td> </tr> <tr> <td>盤面配置</td> <td>—</td> </tr> <tr> <td>情報表示機能</td> <td>—</td> </tr> <tr> <td>警報機能</td> <td>吹鳴により警報発信を認識できる機能としている。</td> </tr> <tr> <td>制御機能</td> <td>—</td> </tr> </table> <p>(11) 漏えい検知システム</p> <table border="1" data-bbox="1373 481 1917 644"> <tr> <td>盤配置及び作業空間</td> <td>「取水ビット水位計」、「循環水ポンプ自動停止インターロック」と共用の盤であるが、運転操作を行うエリアに設置しており他作業との輻輳を回避できる配置となっている。</td> </tr> <tr> <td>盤面配置</td> <td>タッチパネルによる表示である。</td> </tr> <tr> <td>情報表示機能</td> <td>機能又は情報のまとまりごとにグループ分けした画面表示としている。</td> </tr> <tr> <td>警報機能</td> <td>吹鳴、フリッカ、確認、点灯等、中央制御室と同等の機能としている。</td> </tr> <tr> <td>制御機能</td> <td>ポップアップ表示によるダブルアクション機能により非安全な操作ができないようになっている。</td> </tr> </table> <p>(12) 構内監視カメラ</p> <table border="1" data-bbox="1373 673 1917 801"> <tr> <td>盤配置及び作業空間</td> <td>監視カメラの機能を集約した独立パネル(「津波監視カメラ」と共用)であり、他操作による画面展開はない。</td> </tr> <tr> <td>盤面配置</td> <td>専用ディスプレイによる表示である。</td> </tr> <tr> <td>情報表示機能</td> <td>—</td> </tr> <tr> <td>警報機能</td> <td>—</td> </tr> <tr> <td>制御機能</td> <td>—</td> </tr> </table> <p>表2 設計基準対象追加設備の誤操作防止について (4/4)</p> <p>(13) 3号炉環境監視盤</p> <table border="1" data-bbox="1373 858 1917 986"> <tr> <td>盤配置及び作業空間</td> <td>独立盤であり、他作業との輻輳を回避できる配置となっている。</td> </tr> <tr> <td>盤面配置</td> <td>専用ディスプレイによる表示及び記録計を設けている。</td> </tr> <tr> <td>情報表示機能</td> <td>—</td> </tr> <tr> <td>警報機能</td> <td>吹鳴、フリッカ、確認、点灯等、中央制御室と同等の機能を持たせる設計とする。</td> </tr> <tr> <td>制御機能</td> <td>—</td> </tr> </table> <p>(14) ディーゼル発電機燃料油貯油槽</p> <table border="1" data-bbox="1373 1015 1917 1142"> <tr> <td>盤配置及び作業空間</td> <td>貯油槽油量に関する警報を中央制御室で確認できる設計としており、第10条第1項への適合性の評価は既設の中央制御室と同様となる。</td> </tr> <tr> <td>盤面配置</td> <td>同上</td> </tr> <tr> <td>情報表示機能</td> <td>同上</td> </tr> <tr> <td>警報機能</td> <td>同上</td> </tr> <tr> <td>制御機能</td> <td>—</td> </tr> </table> <p>(15) 66kV 開閉所 (後備用) 及び発電変圧器</p> <table border="1" data-bbox="1373 1171 1917 1315"> <tr> <td>盤配置及び作業空間</td> <td>他操作との輻輳を回避できる設計とする。</td> </tr> <tr> <td>盤面配置</td> <td>盤面配置を操作性に留意した設計とする。</td> </tr> <tr> <td>情報表示機能</td> <td>状態表示、ミミック表示等理解しやすい表示方法を用いる設計とする。</td> </tr> <tr> <td>警報機能</td> <td>吹鳴、フリッカ、確認、点灯等、中央制御室と同等の機能を持たせる設計とする。</td> </tr> <tr> <td>制御機能</td> <td>保護カバー・インターロックにより非安全な操作ができない設計とする。</td> </tr> </table> <p>(※今後設置予定の設備であり、設計計画を記載する)</p> <p>(16) ゲータ表示端末</p> <table border="1" data-bbox="1373 1359 1917 1471"> <tr> <td>盤配置及び作業空間</td> <td>独立パネルであり、他操作による画面展開はない。</td> </tr> <tr> <td>盤面配置</td> <td>専用ディスプレイによる表示である。</td> </tr> <tr> <td>情報表示機能</td> <td>—</td> </tr> <tr> <td>警報機能</td> <td>—</td> </tr> <tr> <td>制御機能</td> <td>—</td> </tr> </table> | 盤配置及び作業空間 | 独立盤であり、他作業との輻輳を回避できる配置となっている。 | 盤面配置 | 表示灯を盤面に設置している。 | 情報表示機能 | 消火対象区画ごとの表示としている。 | 警報機能 | 吹鳴、フリッカ、確認、点灯等、中央制御室と同等の機能としている。 | 制御機能 | 手動での操作スイッチは手動起動盤内部に設置されており非安全な操作ができないようになっている。 | 盤配置及び作業空間 | 装置本体で機能を発揮する設備であり、監視対象の盤内に設置している。 | 盤面配置 | — | 情報表示機能 | — | 警報機能 | 吹鳴により警報発信を認識できる機能としている。 | 制御機能 | — | 盤配置及び作業空間 | 「取水ビット水位計」、「循環水ポンプ自動停止インターロック」と共用の盤であるが、運転操作を行うエリアに設置しており他作業との輻輳を回避できる配置となっている。 | 盤面配置 | タッチパネルによる表示である。 | 情報表示機能 | 機能又は情報のまとまりごとにグループ分けした画面表示としている。 | 警報機能 | 吹鳴、フリッカ、確認、点灯等、中央制御室と同等の機能としている。 | 制御機能 | ポップアップ表示によるダブルアクション機能により非安全な操作ができないようになっている。 | 盤配置及び作業空間 | 監視カメラの機能を集約した独立パネル(「津波監視カメラ」と共用)であり、他操作による画面展開はない。 | 盤面配置 | 専用ディスプレイによる表示である。 | 情報表示機能 | — | 警報機能 | — | 制御機能 | — | 盤配置及び作業空間 | 独立盤であり、他作業との輻輳を回避できる配置となっている。 | 盤面配置 | 専用ディスプレイによる表示及び記録計を設けている。 | 情報表示機能 | — | 警報機能 | 吹鳴、フリッカ、確認、点灯等、中央制御室と同等の機能を持たせる設計とする。 | 制御機能 | — | 盤配置及び作業空間 | 貯油槽油量に関する警報を中央制御室で確認できる設計としており、第10条第1項への適合性の評価は既設の中央制御室と同様となる。 | 盤面配置 | 同上 | 情報表示機能 | 同上 | 警報機能 | 同上 | 制御機能 | — | 盤配置及び作業空間 | 他操作との輻輳を回避できる設計とする。 | 盤面配置 | 盤面配置を操作性に留意した設計とする。 | 情報表示機能 | 状態表示、ミミック表示等理解しやすい表示方法を用いる設計とする。 | 警報機能 | 吹鳴、フリッカ、確認、点灯等、中央制御室と同等の機能を持たせる設計とする。 | 制御機能 | 保護カバー・インターロックにより非安全な操作ができない設計とする。 | 盤配置及び作業空間 | 独立パネルであり、他操作による画面展開はない。 | 盤面配置 | 専用ディスプレイによる表示である。 | 情報表示機能 | — | 警報機能 | — | 制御機能 | — | <p>【女川】 設備の相違 ・抽出された設備は異なるが考え方は女川と泊で同様である。</p> |
| 盤配置及び作業空間 | 中央制御室の警報表示で監視可能な設計としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | 表示(警報)窓はコーディングの考え方を反映している。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | 吹鳴、確認、点灯等、中央制御室と同等の機能としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 独立パネルであり、他操作による画面展開はない。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | ディスプレイ表示である。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 独立パネルであり、他操作による画面展開はない。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | ディスプレイ表示である。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 独立盤であり、他作業との輻輳を回避できる配置となっている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | 表示灯を盤面に設置している。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | 消火対象区画ごとの表示としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | 吹鳴、フリッカ、確認、点灯等、中央制御室と同等の機能としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | 手動での操作スイッチは手動起動盤内部に設置されており非安全な操作ができないようになっている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 装置本体で機能を発揮する設備であり、監視対象の盤内に設置している。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | 吹鳴により警報発信を認識できる機能としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 「取水ビット水位計」、「循環水ポンプ自動停止インターロック」と共用の盤であるが、運転操作を行うエリアに設置しており他作業との輻輳を回避できる配置となっている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | タッチパネルによる表示である。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | 機能又は情報のまとまりごとにグループ分けした画面表示としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | 吹鳴、フリッカ、確認、点灯等、中央制御室と同等の機能としている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | ポップアップ表示によるダブルアクション機能により非安全な操作ができないようになっている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 監視カメラの機能を集約した独立パネル(「津波監視カメラ」と共用)であり、他操作による画面展開はない。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | 専用ディスプレイによる表示である。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 独立盤であり、他作業との輻輳を回避できる配置となっている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | 専用ディスプレイによる表示及び記録計を設けている。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | 吹鳴、フリッカ、確認、点灯等、中央制御室と同等の機能を持たせる設計とする。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 貯油槽油量に関する警報を中央制御室で確認できる設計としており、第10条第1項への適合性の評価は既設の中央制御室と同様となる。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | 同上 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | 同上 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | 同上 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 他操作との輻輳を回避できる設計とする。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | 盤面配置を操作性に留意した設計とする。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | 状態表示、ミミック表示等理解しやすい表示方法を用いる設計とする。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | 吹鳴、フリッカ、確認、点灯等、中央制御室と同等の機能を持たせる設計とする。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | 保護カバー・インターロックにより非安全な操作ができない設計とする。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤配置及び作業空間 | 独立パネルであり、他操作による画面展開はない。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盤面配置 | 専用ディスプレイによる表示である。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 情報表示機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 警報機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 制御機能 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--------------|---|---|--|
| | <p style="text-align: center;">現場操作の確認結果について</p> <p>運転時の異常な過渡変化及び設計基準事故時に必要な操作（事故発生から冷温停止まで）について、設置変更許可申請 添付十（安全解析）及び事故時操作手順書より抽出した（添付資料1参照）。また、新規制基準適合性に係る審査において必要な現場操作についても抽出した（添付資料2参照）。</p>  <p style="text-align: center;">第1図 必要な現場操作の抽出フロー</p> <p>抽出された必要となる現場操作に対して、操作容易性の評価結果を添付資料3に示す。また、抽出された現場操作において想定される環境条件の選定結果を参考資料に示す。</p> | <p style="text-align: center;">現場操作の確認結果について</p> <p>運転時の異常な過渡変化及び設計基準事故時に必要な操作（事故発生から冷温停止まで）について、設置変更許可申請添付十（安全解析）及び事故時操作手順書より抽出した（添付資料1参照）。また、新規制基準適合性に係る審査において必要な現場操作についても抽出した（添付資料2参照）。</p>  <p style="text-align: center;">図1 必要な現場操作の抽出フロー</p> <p>抽出された必要となる現場操作に対して、操作容易性の評価結果を添付資料3に示す。</p> | <p>【大飯】 記載内容の相違 ・女川実績の反映</p> <p>【女川】 記載内容の相違 ・女川は抽出した現場操作に対し、その操作の起回事象がもたらす環境条件の選定を行っている。(例：全交流動力電源喪失時の対応操作は、環境条件として照明喪失のみ選定) 泊は「有意な可能性をもって同時にもたらされる環境条件」として、想定される全ての環境条件を考慮しており、大飯と同様の考え方である。</p> |

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|--|---|---|--|
| 第1表 運転時の異常な過渡変化時の運転操作 (2/5) | | | |
| <p>運転時の異常な過渡変化</p> <p>出力運転中の制御棒の異常な引き抜き</p> <p>【原因】 原子炉の出力運転中に運転員が誤操作により、制御棒が過剰的に引き抜かれ、原子炉出力が上昇する。</p> <p>【原因】 原子炉出力運転中に、停止型原子炉再稼働モードで運転中、原子炉出力が過剰に引き抜かれ、原子炉出力が上昇する。</p> <p>【原因】 原子炉出力運転中に、停止型原子炉再稼働モードで運転中、原子炉出力が過剰に引き抜かれ、原子炉出力が上昇する。</p> <p>【原因】 原子炉出力運転中に、停止型原子炉再稼働モードで運転中、原子炉出力が過剰に引き抜かれ、原子炉出力が上昇する。</p> | <p>運転時の異常な過渡変化</p> <p>出力運転中の制御棒の異常な引き抜き</p> <p>【原因】 原子炉出力運転中に、停止型原子炉再稼働モードで運転中、原子炉出力が過剰に引き抜かれ、原子炉出力が上昇する。</p> <p>【原因】 原子炉出力運転中に、停止型原子炉再稼働モードで運転中、原子炉出力が過剰に引き抜かれ、原子炉出力が上昇する。</p> <p>【原因】 原子炉出力運転中に、停止型原子炉再稼働モードで運転中、原子炉出力が過剰に引き抜かれ、原子炉出力が上昇する。</p> <p>【原因】 原子炉出力運転中に、停止型原子炉再稼働モードで運転中、原子炉出力が過剰に引き抜かれ、原子炉出力が上昇する。</p> | <p>運転時の異常な過渡変化</p> <p>出力運転中の制御棒の異常な引き抜き</p> <p>【原因】 原子炉出力運転中に、停止型原子炉再稼働モードで運転中、原子炉出力が過剰に引き抜かれ、原子炉出力が上昇する。</p> <p>【原因】 原子炉出力運転中に、停止型原子炉再稼働モードで運転中、原子炉出力が過剰に引き抜かれ、原子炉出力が上昇する。</p> <p>【原因】 原子炉出力運転中に、停止型原子炉再稼働モードで運転中、原子炉出力が過剰に引き抜かれ、原子炉出力が上昇する。</p> <p>【原因】 原子炉出力運転中に、停止型原子炉再稼働モードで運転中、原子炉出力が過剰に引き抜かれ、原子炉出力が上昇する。</p> | <p>【女川】 操作の相違 ・対応操作は異なるが抽出の考え方は女川と同様である。</p> |
| <p>運転時の異常な過渡変化</p> <p>出力運転中の制御棒の異常な引き抜き</p> | <p>運転時の異常な過渡変化</p> <p>出力運転中の制御棒の異常な引き抜き</p> | <p>運転時の異常な過渡変化</p> <p>出力運転中の制御棒の異常な引き抜き</p> | <p>【女川】 操作の相違 ・対応操作は異なるが抽出の考え方は女川と同様である。</p> |
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| <p>運転時の異常な過渡変化</p> <p>出力運転中の制御棒の異常な引き抜き</p> | <p>運転時の異常な過渡変化</p> <p>出力運転中の制御棒の異常な引き抜き</p> | <p>運転時の異常な過渡変化</p> <p>出力運転中の制御棒の異常な引き抜き</p> | <p>【女川】 操作の相違 ・対応操作は異なるが抽出の考え方は女川と同様である。</p> |
| <p>運転時の異常な過渡変化</p> <p>出力運転中の制御棒の異常な引き抜き</p> | <p>運転時の異常な過渡変化</p> <p>出力運転中の制御棒の異常な引き抜き</p> | <p>運転時の異常な過渡変化</p> <p>出力運転中の制御棒の異常な引き抜き</p> | <p>【女川】 操作の相違 ・対応操作は異なるが抽出の考え方は女川と同様である。</p> |

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| | | | |
| <p>運転時の異常な過渡変化</p> <p>【目的】 運転時中の異常な過渡変化及びプラント停止・希釈に対する主要操作の整理 (7/11)</p> <p>■：手帳書で要求されている操作を現場で実施</p> <p>■：手帳書で要求されている操作を現場で実施</p> <p>■：手帳書で要求されている操作を現場で実施</p> | <p>運転時中の異常な過渡変化</p> <p>【目的】 運転時中の異常な過渡変化及びプラント停止・希釈に対する主要操作の整理 (7/11)</p> <p>■：手帳書で要求されている操作を現場で実施</p> <p>■：手帳書で要求されている操作を現場で実施</p> <p>■：手帳書で要求されている操作を現場で実施</p> | <p>運転時中の異常な過渡変化</p> <p>【目的】 運転時中の異常な過渡変化及びプラント停止・希釈に対する主要操作の整理 (7/11)</p> <p>■：手帳書で要求されている操作を現場で実施</p> <p>■：手帳書で要求されている操作を現場で実施</p> <p>■：手帳書で要求されている操作を現場で実施</p> | <p>相違理由</p> <p>【女川】 操作の相違 ・対応操作は異なるが抽出の考え方は女川と泊で同様である。</p> |

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|--|------------------------------|------------------------|------------------------|-------------|-------|--------------|-----------|----|---|------------------------------|------------------------|------------------------|---|---|------------------------------|------------------------|------------------------|---|---------------|------------------------------|------------------------|------------------------|---|--|------------------------------|------------------------|------------------------|---|--------------------------------|------------------------------|------------------------|------------------------|---|
| <p>表1 運転時の異常な過渡変化及びブランチ停止・冷却に対する主要操作の整理 (11/11) 緑字：手冊書で要求されている操作を中央制御室で実施 青字：手冊書で要求されている操作を現場で実施</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | <p>表3 プラント停止時の運転操作 (11/11)</p> <p>■：手順書で要求されている操作を中央制御室で実施 □：手順書で要求されている操作を中央制御室で実施</p> <table border="1"> <thead> <tr> <th>分析</th> <th>操作項目</th> <th>手順書要求 操作場所</th> <th>備考</th> </tr> </thead> <tbody> <tr> <td rowspan="10">主蒸気循環</td> <td>主蒸気循環</td> <td>■ 主蒸気バイパス保護手動解除操作出力低調整 ■ 主蒸気保護手「閉」 ■ 主蒸気循環手動操作用空気供給手「閉」 ■ 主蒸気循環手(Aトレンチ)電源開放 ■ 主蒸気循環手(Bトレンチ)電源開放</td> <td rowspan="10">-</td> </tr> <tr> <td>■ 主蒸気バイパス保護手自動用空気供給手「閉」</td> <td>現場 F/B 10.3m</td> </tr> <tr> <td>■ 主蒸気バイパス保護手(Aトレンチ)電源開放</td> <td>現場 F/B 10.3m</td> </tr> <tr> <td>■ 主蒸気バイパス保護手(Bトレンチ)電源開放</td> <td>現場 F/B 33.1m</td> </tr> <tr> <td>■ 主蒸気バイパス保護手(Aトレンチ)電源開放</td> <td>現場 A/B 10.3m</td> </tr> <tr> <td>■ 主蒸気バイパス保護手(Bトレンチ)電源開放</td> <td>現場 F/B 30.3m</td> </tr> <tr> <td>■ 主蒸気循環手閉し締め</td> <td>現場 D/B 7.5m</td> </tr> <tr> <td>■ 主蒸気ポンプリング5号手「閉」</td> <td></td> </tr> <tr> <td>■ 主蒸気止め弁上流下流トレンチラップバイパス手「閉」</td> <td></td> </tr> <tr> <td>■ 補助給水循環手「閉ロック」</td> <td>中央制御室</td> </tr> <tr> <td rowspan="2">補助給水ポンプ付属除外</td> <td>■ タービン動機補助給水ポンプ駆動蒸気入口弁A, B「閉ロック」 ■ タービン動機補助給水ポンプ非常用ポンプ「閉ロック」 ■ タービン動機補助給水ポンプ補助油ポンプ「閉ロック」 ■ 電動補助給水ポンプ「閉ロック」 ■ 電動補助給水ポンプ電源開放</td> <td>現場 A/B 10.3m</td> <td>即座保護のための操作のため 対象外</td> </tr> </tbody> </table> | 分析 | 操作項目 | 手順書要求 操作場所 | 備考 | 主蒸気循環 | 主蒸気循環 | ■ 主蒸気バイパス保護手動解除操作出力低調整 ■ 主蒸気保護手「閉」 ■ 主蒸気循環手動操作用空気供給手「閉」 ■ 主蒸気循環手(Aトレンチ)電源開放 ■ 主蒸気循環手(Bトレンチ)電源開放 | - | ■ 主蒸気バイパス保護手自動用空気供給手「閉」 | 現場 F/B 10.3m | ■ 主蒸気バイパス保護手(Aトレンチ)電源開放 | 現場 F/B 10.3m | ■ 主蒸気バイパス保護手(Bトレンチ)電源開放 | 現場 F/B 33.1m | ■ 主蒸気バイパス保護手(Aトレンチ)電源開放 | 現場 A/B 10.3m | ■ 主蒸気バイパス保護手(Bトレンチ)電源開放 | 現場 F/B 30.3m | ■ 主蒸気循環手閉し締め | 現場 D/B 7.5m | ■ 主蒸気ポンプリング5号手「閉」 | | ■ 主蒸気止め弁上流下流トレンチラップバイパス手「閉」 | | ■ 補助給水循環手「閉ロック」 | 中央制御室 | 補助給水ポンプ付属除外 | ■ タービン動機補助給水ポンプ駆動蒸気入口弁A, B「閉ロック」 ■ タービン動機補助給水ポンプ非常用ポンプ「閉ロック」 ■ タービン動機補助給水ポンプ補助油ポンプ「閉ロック」 ■ 電動補助給水ポンプ「閉ロック」 ■ 電動補助給水ポンプ電源開放 | 現場 A/B 10.3m | 即座保護のための操作のため 対象外 | <p>【女川】 操作の相違 ・対応操作は異なるが抽出の考え方は女川と泊で同様である。</p> |
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| | ■ 主蒸気バイパス保護手自動用空気供給手「閉」 | 現場 F/B 10.3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ■ 主蒸気バイパス保護手(Aトレンチ)電源開放 | 現場 F/B 10.3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ■ 主蒸気バイパス保護手(Bトレンチ)電源開放 | 現場 F/B 33.1m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ■ 主蒸気バイパス保護手(Aトレンチ)電源開放 | 現場 A/B 10.3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ■ 主蒸気バイパス保護手(Bトレンチ)電源開放 | 現場 F/B 30.3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ■ 主蒸気循環手閉し締め | 現場 D/B 7.5m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ■ 主蒸気ポンプリング5号手「閉」 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ■ 主蒸気止め弁上流下流トレンチラップバイパス手「閉」 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ■ 補助給水循環手「閉ロック」 | 中央制御室 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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泊発電所3号炉 DB基準適合性 比較表

赤字：設備、運用又は体制の相違（設計方針の相違）
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第10条 誤操作の防止（別添1）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 添付資料2 | 泊発電所3号炉 添付資料2 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 5 | 第五条「津波による損傷の防止」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 第六条「外部からの衝撃による損傷の防止」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 第七条「発電用原子炉施設への人の不法な侵入等の防止」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 第八条「火災による損傷の防止」 | 残留熱除去系原子炉停止時冷却モード吸込ラインの開操作 | 残留熱除去系原子炉停止時冷却モードを実施する際において、火災によって非常用電源機能が喪失した場合、停止時冷却外側隔離弁を現場（原子炉建屋地下2階）にて手動開操作する。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 原子炉保護系電源「断」操作 | 火災によって原子炉保護系の論理回路が懸断状態となった場合、電源断操作によりスクラムさせるため、現場（制御建屋地下1階）にて手動操作を実施する。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 中央制御室外原子炉停止操作 | 中央制御室内での操作が火災等の何らかの要因により困難な場合には、中央制御室外原子炉が停止装置（制御建屋地下1階）にてスクラム状態の原子炉を冷温状態に移行させる操作を実施する。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 中央制御室外気取入ダンパの開操作 | 中央制御室外気取入ダンパが火災発生時に閉鎖状態となり全閉し、外気取入ラインが機能喪失した場合、中央制御室環境維持のために、少量の空気を取り入れるため、現場（制御建屋地下1階及び制御建屋地下2階）にて電解切操作及び手動開操作を実施する。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 条文 | 対象外 | 操作項目 | 概要 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第一条「適用範囲」 | 対象外 | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第二条「定義」 | 対象外 | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第三条「設計基準対象施設の種類」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第四条「地震による損傷の防止」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第五条「津波による損傷の防止」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第六条「外部からの衝撃による損傷の防止」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第七条「発電用原子炉施設への人の不法な侵入等の防止」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第八条「火災による損傷の防止」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第九条「漏水による損傷の防止等」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第十条「誤操作防止」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第十一条「安全避難通路等」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第十二条「安全施設」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第十三条「運転時の異常な過熱化及び設計基準を超えた状況の防止」 | 今回申請対象外 | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第十四条「全交流動力電源喪失対策設備」 | 全交流動力電源喪失時の現場操作 | 全交流動力電源喪失時に代替非常用電源から受電するまでの間、現場にて、2次冷却系強制循環のための主蒸気逃がし弁操作、代替非常用発電機からの給電操作及びブイヤー発電機復旧操作を行う。 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第十五条「炉心等」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第十六条「燃料体系の取捨施設及び貯蔵施設」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第十七条「原子炉冷却材圧力バンの管理」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第十八条「蒸気タービン」 | 今回申請対象外 | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第十九条「非常用炉心冷却設備」 | 今回申請対象外 | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第二十条「一次冷却材の減少分を補給する設備」 | 今回申請対象外 | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第二十一条「残留熱を除去することができる設備」 | 今回申請対象外 | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第二十二条「最終ヒートシンクへ熱を輸送することができる設備」 | 今回申請対象外 | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第二十三条「計測制御系統施設」 | 今回申請対象外 | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第二十四条「安全保護回路」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第二十五条「反応制御系統及び原子炉制御系統」 | 今回申請対象外 | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第二十六条「原子炉制御室等」 | 中央制御室外原子炉停止操作 | 中央制御室において操作が困難な場合、中央制御室外原子炉停止装置にて、トリップ後の発電用原子炉を高圧停止状態から低圧停止状態に移行させる操作を行う。 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

泊発電所3号炉 DB基準適合性 比較表

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添1）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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泊発電所3号炉 DB基準適合性 比較表

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添1）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <table border="1"> <thead> <tr> <th>No</th> <th>条文</th> <th>操作項目</th> <th>概要</th> </tr> </thead> <tbody> <tr> <td>22</td> <td>第二十二条「最終セータシフト～熱を輸送することができる設備」</td> <td>今回申請対象外</td> <td>—</td> </tr> <tr> <td>23</td> <td>第二十三条「計測制御系統施設」</td> <td>今回申請対象外</td> <td>—</td> </tr> <tr> <td>24</td> <td>第二十四条「安全保護回路」</td> <td>安全施設が安全機能を損わないために必要な現場操作なし</td> <td>—</td> </tr> <tr> <td>25</td> <td>第二十五条「反応度制御系統及び原子炉制御系統」</td> <td>今回申請対象外</td> <td>—</td> </tr> <tr> <td>26</td> <td>第二十六条「原子炉制御室等」</td> <td>中央制御室外原子炉停止操作</td> <td>中央制御室内での操作が火災等の何らかの要因により困難な場合には、中央制御室外原子炉停止装置（制御室地下1階）にてスクラム状態の原子炉を冷温状態に移行させる操作を実施する。</td> </tr> <tr> <td>27</td> <td>第二十七条「放射性廃棄物の処理施設」</td> <td>今回申請対象外</td> <td>—</td> </tr> <tr> <td>28</td> <td>第二十八条「放射性廃棄物の貯蔵施設」</td> <td>今回申請対象外</td> <td>—</td> </tr> <tr> <td>29</td> <td>第二十九条「工場等周辺における放射線ガンマ線等からの防護」</td> <td>今回申請対象外</td> <td>—</td> </tr> <tr> <td>30</td> <td>第三十条「放射線からの放射線業務従事者の防護」</td> <td>今回申請対象外</td> <td>—</td> </tr> <tr> <td>31</td> <td>第三十一条「監視設備」</td> <td>安全施設が安全機能を損わないために必要な現場操作なし</td> <td>—</td> </tr> <tr> <td>32</td> <td>第三十二条「原子炉格納施設」</td> <td>今回申請対象外</td> <td>—</td> </tr> <tr> <td>33</td> <td>第三十三条「保安電源設備」</td> <td>安全施設が安全機能を損わないために必要な現場操作なし</td> <td>—</td> </tr> <tr> <td>34</td> <td>第三十四条「緊急時対策所」</td> <td>安全施設が安全機能を損わないために必要な現場操作なし</td> <td>—</td> </tr> <tr> <td>35</td> <td>第三十五条「通信連絡設備」</td> <td>安全施設が安全機能を損わないために必要な現場操作なし</td> <td>—</td> </tr> <tr> <td>36</td> <td>第三十六条「補助ボイラー」</td> <td>今回申請対象外</td> <td>—</td> </tr> </tbody> </table> | No | 条文 | 操作項目 | 概要 | 22 | 第二十二条「最終セータシフト～熱を輸送することができる設備」 | 今回申請対象外 | — | 23 | 第二十三条「計測制御系統施設」 | 今回申請対象外 | — | 24 | 第二十四条「安全保護回路」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | 25 | 第二十五条「反応度制御系統及び原子炉制御系統」 | 今回申請対象外 | — | 26 | 第二十六条「原子炉制御室等」 | 中央制御室外原子炉停止操作 | 中央制御室内での操作が火災等の何らかの要因により困難な場合には、中央制御室外原子炉停止装置（制御室地下1階）にてスクラム状態の原子炉を冷温状態に移行させる操作を実施する。 | 27 | 第二十七条「放射性廃棄物の処理施設」 | 今回申請対象外 | — | 28 | 第二十八条「放射性廃棄物の貯蔵施設」 | 今回申請対象外 | — | 29 | 第二十九条「工場等周辺における放射線ガンマ線等からの防護」 | 今回申請対象外 | — | 30 | 第三十条「放射線からの放射線業務従事者の防護」 | 今回申請対象外 | — | 31 | 第三十一条「監視設備」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | 32 | 第三十二条「原子炉格納施設」 | 今回申請対象外 | — | 33 | 第三十三条「保安電源設備」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | 34 | 第三十四条「緊急時対策所」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | 35 | 第三十五条「通信連絡設備」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | 36 | 第三十六条「補助ボイラー」 | 今回申請対象外 | — | | <p>【女川】 操作の相違 ・対応操作は異なるが抽出の考え方は女川と泊で同様である。</p> |
| No | 条文 | 操作項目 | 概要 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 第二十二条「最終セータシフト～熱を輸送することができる設備」 | 今回申請対象外 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 第二十三条「計測制御系統施設」 | 今回申請対象外 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 第二十四条「安全保護回路」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 第二十五条「反応度制御系統及び原子炉制御系統」 | 今回申請対象外 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 27 | 第二十七条「放射性廃棄物の処理施設」 | 今回申請対象外 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 29 | 第二十九条「工場等周辺における放射線ガンマ線等からの防護」 | 今回申請対象外 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 第三十条「放射線からの放射線業務従事者の防護」 | 今回申請対象外 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | 第三十一条「監視設備」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | 第三十二条「原子炉格納施設」 | 今回申請対象外 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | 第三十三条「保安電源設備」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | 第三十四条「緊急時対策所」 | 安全施設が安全機能を損わないために必要な現場操作なし | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 36 | 第三十六条「補助ボイラー」 | 今回申請対象外 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--------------|--|---|---|
| | <p style="text-align: right;">添付資料3</p> <p>1. 残留熱除去系原子炉停止時冷却モードにおける現場操作 (1) 設備概要 残留熱除去系の原子炉停止時冷却モード機能を持つ2系統の設備は、1系統の故障が他のすべての系統に波及しないよう、それぞれ区画されたエリアに分離、又は位置的分散を図るように配置する設計としている。電源についてもそれぞれ異なる区分から供給しており、1系統の電源故障が他のすべての系統に影響を及ぼさないよう設計している。</p> <p>なお、本系統の停止時冷却外側隔離弁の電源区分については、残留熱除去系による注水機能よりも格納容器バウンダリ機能を優先することから、主系統と電源を分離している。そこで、主系統が他の系統の故障により機能喪失することを防ぐために、停止時冷却外側隔離弁については手動操作ができるように設計している。第1図に残留熱除去系の系統構成と電源区分、第1表に想定される電源喪失時の各系統の停止時冷却内側/外側隔離弁の状態を示す。</p> <p style="text-align: center;">第1図 残留熱除去系 (原子炉停止時冷却モード)</p> | <p style="text-align: right;">添付資料3</p> | <p>【女川】 操作の相違 ・本現場操作は泊では行わない。</p> |

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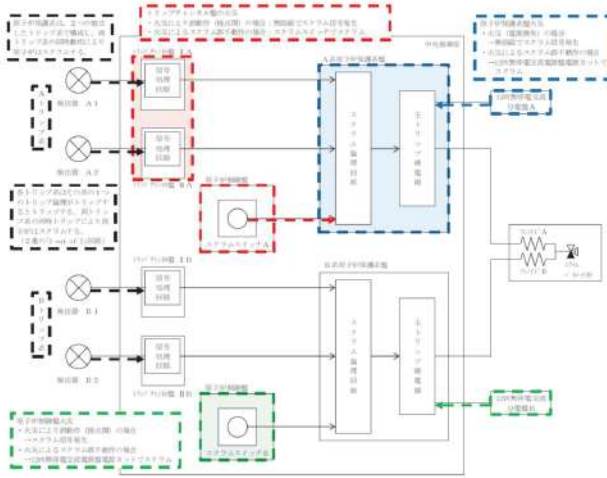
第10条 誤操作の防止（別添1）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---------|--------------------|-----|--|--|--------------------|--|--------------------|--|--|----|----|----|----|---------|---|---|---|-----|--|------|--|----------|--|--|----|----|----|----|---------|---|-----|---|---|--|----------|--|------|--|--|---|
| | <p>第1表 電源喪失時における停止時冷却内側/外側隔離弁の操作可否について</p> <table border="1" data-bbox="741 193 1335 507"> <thead> <tr> <th rowspan="2">電源喪失</th> <th colspan="4">停止時冷却内側/外側隔離弁の操作可否</th> </tr> <tr> <th colspan="2">残留熱除去系(A) (区分Ⅰ)</th> <th colspan="2">残留熱除去系(B) (区分Ⅱ)</th> </tr> <tr> <td></td> <th>内側</th> <th>外側</th> <th>内側</th> <th>外側</th> </tr> </thead> <tbody> <tr> <td>区分Ⅰ電源喪失</td> <td>×</td> <td>○</td> <td>○</td> <td>手動開</td> </tr> <tr> <td></td> <td colspan="2">操作不可</td> <td colspan="2">現場開操作が必要</td> </tr> <tr> <td></td> <th>内側</th> <th>外側</th> <th>内側</th> <th>外側</th> </tr> <tr> <td>区分Ⅱ電源喪失</td> <td>○</td> <td>手動開</td> <td>×</td> <td>○</td> </tr> <tr> <td></td> <td colspan="2">現場開操作が必要</td> <td colspan="2">操作不可</td> </tr> </tbody> </table> <p>○：遠隔操作可能、 ×：遠隔操作不可、 手動開：現場手動開操作で対応</p> <p>(2) 必要となる操作の概要 残留熱除去系の原子炉停止時冷却モードを実施する際には、下記の現場操作が必要となる。</p> <ul style="list-style-type: none"> 火災によって非常用電源機能が喪失した場合、当該非常用電源機能と異なる区分の停止時冷却外側隔離弁が遠隔操作できない状況が発生するため、現場（原子炉建屋地下1階及び地下2階）で電源切操作及び手動開操作を実施する。（第1表参照） <p>(3) 操作容易性の評価結果</p> <p>a. 想定される環境条件</p> <p>① 炎、温度、煙（起因事象：内部火災） 本事象は設置許可基準規則第8条「火災による損傷の防止」に関する適合状況説明資料が必要とされる、安全施設が安全機能を損わないために必要な現場操作である。本操作は、単一の内部火災が起因となっていることから、想定される環境条件は炎、温度、煙である。また、この火災に伴い金属等の不燃材料で構成する配管、弁類は火災による損傷はないことから、上記以外の新たな環境条件は発生しない。</p> <p>② 運転時の異常な過渡変化及び設計基準事故後に原子炉停止時冷却モードをインサービスする時の環境条件 本事象は、設置許可基準規則第12条「安全施設」に関する適合状況説明資料で、運転時の異常な過渡変化及び設計基準事故収束後に必要な操作として原子炉停止時冷却モードの操作を抽出している。本操作は、運転時の異常な過渡変化及び設計基準事故後の操作であることから、原子炉停止時冷却モードを使用する際の環境条件として、温度及び線量が想定される。</p> | 電源喪失 | 停止時冷却内側/外側隔離弁の操作可否 | | | | 残留熱除去系(A) (区分Ⅰ) | | 残留熱除去系(B) (区分Ⅱ) | | | 内側 | 外側 | 内側 | 外側 | 区分Ⅰ電源喪失 | × | ○ | ○ | 手動開 | | 操作不可 | | 現場開操作が必要 | | | 内側 | 外側 | 内側 | 外側 | 区分Ⅱ電源喪失 | ○ | 手動開 | × | ○ | | 現場開操作が必要 | | 操作不可 | | | <p>【女川】 操作の相違 ・本現場操作は泊では行わない。</p> |
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| | 残留熱除去系(A) (区分Ⅰ) | | 残留熱除去系(B) (区分Ⅱ) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 内側 | 外側 | 内側 | 外側 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 区分Ⅰ電源喪失 | × | ○ | ○ | 手動開 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 操作不可 | | 現場開操作が必要 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 内側 | 外側 | 内側 | 外側 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 区分Ⅱ電源喪失 | ○ | 手動開 | × | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <p>b. 操作場所の評価（アクセス性含む）</p> <p>① 残留熱除去系原子炉停止時冷却モードは設計基準事故時の事故収束後に冷温停止とするための機能であることから、機能要求まで時間的余裕がある。</p> <p>よって、火災に起因して操作場所の温度は上昇するが、操作場所の放射線量は低く、消火活動により室内温度を低下させ、人がアクセス可能な環境とすることにより、弁操作に必要な環境を確保する。</p> <p>② 残留熱除去系原子炉停止時冷却モードは、運転時の異常な過渡変化及び設計基準事故時の事故収束後に冷温停止とするための機能であることから、機能要求まで時間的猶予がある。よって、運転時の異常な過渡変化及び設計基準事故時に起因して、弁操作場所の温度は上昇するが、残留熱除去系サブプレッションプール水冷却モードにより、サブプレッションプール水温を低下させることにより、室内温度を低下させ、人がアクセス可能な環境とすることにより、弁操作に必要な環境を確保する。</p> <p>c. 操作内容の評価</p> <p>弁の手動開操作時は、操作作用ハンドル機構及び弁開度表示を当該弁に設置することにより、操作及び操作が実施されたことの現場確認が容易に実施可能な設計とする。また、電源切操作についても、当該モータコントロールセンタで電源切状態を確認できることにより、操作が実施されたことの確認は現場にて容易に可能な設計とする。</p> <p>なお、弁の手動開操作及び電源切操作時には、対象設備に付設された機器名称・機器番号が記載された銘板を設置することにより、使用する手順書に記載されている機器名称・機器番号を照合できるようにし、操作対象であることを確認してから操作を行うことで、誤操作防止を図る。</p> <p>2. 原子炉保護系電源「断」操作 （詳細については、設置許可基準規則第8条「火災による損傷の防止」に関する適合状況説明資料を参照）</p> <p>（1）設備概要</p> <p>原子炉停止系のうち、スクラム機能に関連した中央制御室にある機器としては、原子炉保護系盤、トリップチャンネル盤及び原子炉制御盤に設置されたスクラムスイッチが独立して2系列ある。</p> <p>原子炉保護系盤内のスクラム論理回路の継電器接点はすべて直列に接続され、どの継電器でも1個が無励磁の状態になれば、その継電器接点が属している論理回路の主トリップ継電器の電源が喪失し、スクラムパイロット弁のソレノイドが動作する。同時に残りの系列の主トリップ継電器の電源が喪失した場合、スクラムパイロット弁の残りの系列のソレノイドが動作する。これによりスクラムパイロット弁が動作してスクラムに至る。（第2図参照）</p> | | <p>【女川】 操作の相違 ・本現場操作は泊では行わない。</p> <p>【女川】 操作の相違 ・本現場操作は泊では行わない。</p> |

赤字：設備、運用又は体制の相違 (設計方針の相違)
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|--------------------|--|---------|------|--------------------|---------|--------------------|---------|--|--|
| |  <p data-bbox="828 686 1209 710">第2図 原子炉停止系 (スクラム回路) 作動回路概要</p> <p data-bbox="728 837 985 861">(2) 必要となる操作の概要</p> <p data-bbox="728 869 940 893">a. 原子炉保護系盤火災</p> <p data-bbox="728 901 1344 1069">片系の原子炉保護系盤が火災となり論理回路が励磁状態を継続する状況となった場合、主トリップ継電器の電源が喪失しないため、スクラムは120V 無停電交流分電盤のブレーカーを切ることで主トリップ継電器の電源を喪失させ、スクラムパイロット弁ソレノイドが動作し、残りの原子炉保護系スクラムスイッチを押すことでスクラムさせることができる。(第2表参照)</p> <p data-bbox="728 1101 929 1125">b. 原子炉制御盤火災</p> <p data-bbox="728 1133 1344 1300">スクラムスイッチ単体が内部火災になりスイッチの接点が閉じられた場合、主トリップ継電器の電源が喪失しないため、スクラムは120V無停電交流分電盤のブレーカーを切ることで主トリップ継電器の電源を喪失させ、スクラムパイロット弁ソレノイドが動作し、残りの原子炉保護系のスクラムスイッチを押すことでスクラムさせることができる。</p> <p data-bbox="896 1316 1153 1340">第2表 操作対象及び操作場所</p> <table border="1" data-bbox="750 1340 1299 1428"> <thead> <tr> <th>操作対象</th> <th>操作場所</th> </tr> </thead> <tbody> <tr> <td>120V 無停電交流分電盤 2A-1</td> <td>C/B B1F</td> </tr> <tr> <td>120V 無停電交流分電盤 2B-1</td> <td>C/B B1F</td> </tr> </tbody> </table> | 操作対象 | 操作場所 | 120V 無停電交流分電盤 2A-1 | C/B B1F | 120V 無停電交流分電盤 2B-1 | C/B B1F | | <p data-bbox="2016 143 2083 167">【女川】</p> <p data-bbox="2016 167 2105 191">操作の相違</p> <ul data-bbox="2016 199 2184 255" style="list-style-type: none"> ・本現場操作は泊では行わない。 |
| 操作対象 | 操作場所 | | | | | | | | |
| 120V 無停電交流分電盤 2A-1 | C/B B1F | | | | | | | | |
| 120V 無停電交流分電盤 2B-1 | C/B B1F | | | | | | | | |

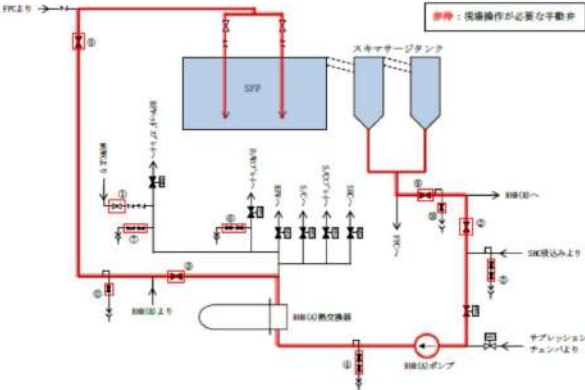
泊発電所3号炉 DB基準適合性 比較表

赤字：設備、運用又は体制の相違（設計方針の相違）
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第10条 誤操作の防止（別添1）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--------------|--|---------|---|
| | <p>(3) 操作容易性の評価結果</p> <p>a. 想定される環境条件 炎、温度、煙（起因事象：内部火災） 本事象は設置許可基準規則第8条「火災による損傷の防止」に関する適合状況説明資料で必要とされる、安全施設が安全機能を損わないために必要な現場操作である。本操作は、単一の内部火災が起因となっていることから、想定される環境条件は炎、温度、煙である。また、この火災に伴い金属等の不燃材料で構成する配管、弁類は火災による損傷はないことから、上記以外の新たな環境条件は発生しない。</p> <p>b. 操作場所の評価（アクセス性含む） 火災による原子炉保護系論理回路の励磁状態を想定するため、想定火災としては原子炉保護系盤を発火箇所とする。 それに対して操作場所である制御建屋地下1階は、発火箇所である中央制御室と位置的分散がなされており、想定される環境条件においてもアクセス性に影響はなく、操作可能である。 なお、原子炉保護系盤及び原子炉制御盤には火災感知器を設置しており、早期に火災を検知し、運転員が火災状況を確認し、初期消火を行うことができるよう消火器を設置している。また、運転員が早期消火を図るための消火活動の手順を定める。</p> <p>c. 操作内容の評価 原子炉保護系電源「断」操作を実施する際は、当該分電盤でブレーカーの電源切状態を確認できることにより、操作が実施されたことの確認は現場にて容易に可能な設計とする。 なお、現場において電源「断」操作を行う盤に付設された盤名称、盤番号、機器名称及び機器番号が記載された銘板を設置することにより、使用する手順書に記載されている盤名称、盤番号、機器名称及び機器番号を照合できるようにし、操作対象であることを確認してから操作を行うことで、誤操作防止を図る。</p> <p>3. 想定破損時の系統切替操作 （詳細については、設置許可基準規則第9条「溢水による損傷の防止等」に関する適合状況説明資料を参照） (1) 必要となる操作の概要 内部溢水の想定破損により、燃料プール冷却浄化系及び燃料プール補給水系の機能が喪失した場合、使用済燃料プールの給水、冷却機能を維持する必要があるため、残留熱除去系への切替操作が必要となる。（第3図参照） その際に現場（第3表参照）での手動弁の操作が必要となる。</p> | | <p>【女川】 操作の相違 ・本現場操作は泊では行わない。</p> <p>【女川】 操作の相違 ・本現場操作は泊では行わない。</p> |

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|--------------|---|----------|------|--|-----|-----|------|---|-----------|--------|---|-----------|---------|---|-----------|----------|---|------------|--------|------------|--------|---|------------|---------|------------|---------|---|------------|--------|------------|--------|---|-----------|--------|-----------|--------|---|----------|---------|---|----------|---------|---|----------|---------|---|----------|---------|--|--|
| |  <p data-bbox="772 646 1276 667">第3図 残留熱除去系による使用済燃料プール冷却時の系統 (A系の場合)</p> <p data-bbox="851 702 1243 746">第3-1表 燃料プール冷却浄化系機能喪失時操作対象弁 (残留熱除去系(A)へ切替する場合)</p> <table border="1" data-bbox="824 758 1272 1220"> <thead> <tr> <th colspan="3">操作対象弁</th> </tr> <tr> <th>弁番号</th> <th>弁番号</th> <th>設置場所</th> </tr> </thead> <tbody> <tr><td>①</td><td>E11-F025A</td><td>R/A 1F</td></tr> <tr><td>②</td><td>E11-F029A</td><td>R/A B3F</td></tr> <tr><td>③</td><td>E11-F030A</td><td>R/A MB1F</td></tr> <tr><td rowspan="2">④</td><td>E11-F503AX</td><td>R/A 1F</td></tr> <tr><td>E11-F503AY</td><td>R/A 1F</td></tr> <tr><td rowspan="2">⑤</td><td>E11-F506AX</td><td>R/A B2F</td></tr> <tr><td>E11-F506AY</td><td>R/A B2F</td></tr> <tr><td rowspan="2">⑥</td><td>E11-F512AX</td><td>R/A 1F</td></tr> <tr><td>E11-F512AY</td><td>R/A 1F</td></tr> <tr><td rowspan="2">⑦</td><td>E11-F513X</td><td>R/A 1F</td></tr> <tr><td>E11-F513Y</td><td>R/A 1F</td></tr> <tr><td>⑧</td><td>G41-F022</td><td>R/A M2F</td></tr> <tr><td>⑨</td><td>G41-F023</td><td>R/A M2F</td></tr> <tr><td>⑩</td><td>G41-F520</td><td>R/A M2F</td></tr> <tr><td>⑪</td><td>G41-F523</td><td>R/A M2F</td></tr> </tbody> </table> | 操作対象弁 | | | 弁番号 | 弁番号 | 設置場所 | ① | E11-F025A | R/A 1F | ② | E11-F029A | R/A B3F | ③ | E11-F030A | R/A MB1F | ④ | E11-F503AX | R/A 1F | E11-F503AY | R/A 1F | ⑤ | E11-F506AX | R/A B2F | E11-F506AY | R/A B2F | ⑥ | E11-F512AX | R/A 1F | E11-F512AY | R/A 1F | ⑦ | E11-F513X | R/A 1F | E11-F513Y | R/A 1F | ⑧ | G41-F022 | R/A M2F | ⑨ | G41-F023 | R/A M2F | ⑩ | G41-F520 | R/A M2F | ⑪ | G41-F523 | R/A M2F | | <p data-bbox="2016 143 2083 167">【女川】</p> <p data-bbox="2016 172 2105 196">操作の相違</p> <ul data-bbox="2016 201 2184 252" style="list-style-type: none"> ・本現場操作は泊では行わない。 |
| 操作対象弁 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 弁番号 | 弁番号 | 設置場所 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ① | E11-F025A | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ② | E11-F029A | R/A B3F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ③ | E11-F030A | R/A MB1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ④ | E11-F503AX | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | E11-F503AY | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⑤ | E11-F506AX | R/A B2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | E11-F506AY | R/A B2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⑥ | E11-F512AX | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | E11-F512AY | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⑦ | E11-F513X | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | E11-F513Y | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⑧ | G41-F022 | R/A M2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⑨ | G41-F023 | R/A M2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⑩ | G41-F520 | R/A M2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⑪ | G41-F523 | R/A M2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|--------------|---|---------|------|-----|------|-----------|--------|-----------|---------|-----------|----------|------------|--------|------------|--------|------------|---------|------------|---------|------------|--------|------------|--------|----------|---------|----------|---------|----------|---------|----------|---------|-------|--|-----|------|-----------|----------|----------|---------|-------|--|-----|------|-----------|----------|----------|---------|--|---|
| | <p style="text-align: center;">第3-2表 燃料プール冷却浄化系機能喪失時操作対象弁 (残留熱除去系(B)へ切替する場合)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">操作対象弁</th> </tr> <tr> <th>弁番号</th> <th>設置場所</th> </tr> </thead> <tbody> <tr><td>E11-F025B</td><td>R/A 1F</td></tr> <tr><td>E11-F029B</td><td>R/A B3F</td></tr> <tr><td>E11-F030B</td><td>R/A MB1F</td></tr> <tr><td>E11-F503BX</td><td>R/A 1F</td></tr> <tr><td>E11-F503BY</td><td>R/A 1F</td></tr> <tr><td>E11-F506BX</td><td>R/A B2F</td></tr> <tr><td>E11-F506BY</td><td>R/A B2F</td></tr> <tr><td>E11-F512BX</td><td>R/A 1F</td></tr> <tr><td>E11-F512BY</td><td>R/A 1F</td></tr> <tr><td>G41-F022</td><td>R/A M2F</td></tr> <tr><td>G41-F023</td><td>R/A M2F</td></tr> <tr><td>G41-F520</td><td>R/A M2F</td></tr> <tr><td>G41-F523</td><td>R/A M2F</td></tr> </tbody> </table> <p style="text-align: center;">第3-3表 燃料プール補給水系機能喪失時操作対象弁 (残留熱除去系(A)へ切替する場合)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">操作対象弁</th> </tr> <tr> <th>弁番号</th> <th>設置場所</th> </tr> </thead> <tbody> <tr><td>E11-F030A</td><td>R/A MB1F</td></tr> <tr><td>G41-F023</td><td>R/A M2F</td></tr> </tbody> </table> <p style="text-align: center;">第3-4表 燃料プール補給水系機能喪失時操作対象弁 (残留熱除去系(B)へ切替する場合)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">操作対象弁</th> </tr> <tr> <th>弁番号</th> <th>設置場所</th> </tr> </thead> <tbody> <tr><td>E11-F030B</td><td>R/A MB1F</td></tr> <tr><td>G41-F023</td><td>R/A M2F</td></tr> </tbody> </table> <p>(2) 操作容易性の評価結果 a. 想定される環境条件 水位、温度、線量、化学薬品、照明、感電、漂流物（起因事象：内部溢水） 本事象は設置許可基準規則第9条「溢水による損傷の防止等」に関する適合状況説明資料が必要とされる、安全施設が安全機能を損わないために必要な現場操作である。本操作は、単一想定破損による内部溢水が起因となっていることから、想定される環境条件は水位、温度、線量、化学薬品、照明、感電、漂流物である。また、内部溢水対策により、溢水に伴って発生する他の事象は起きないようにすることから、上記以外の新たな環境条件は発生しない。</p> | 操作対象弁 | | 弁番号 | 設置場所 | E11-F025B | R/A 1F | E11-F029B | R/A B3F | E11-F030B | R/A MB1F | E11-F503BX | R/A 1F | E11-F503BY | R/A 1F | E11-F506BX | R/A B2F | E11-F506BY | R/A B2F | E11-F512BX | R/A 1F | E11-F512BY | R/A 1F | G41-F022 | R/A M2F | G41-F023 | R/A M2F | G41-F520 | R/A M2F | G41-F523 | R/A M2F | 操作対象弁 | | 弁番号 | 設置場所 | E11-F030A | R/A MB1F | G41-F023 | R/A M2F | 操作対象弁 | | 弁番号 | 設置場所 | E11-F030B | R/A MB1F | G41-F023 | R/A M2F | | <p>【女川】 操作の相違 ・本現場操作は泊では行わない。</p> |
| 操作対象弁 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 弁番号 | 設置場所 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F025B | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F029B | R/A B3F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F030B | R/A MB1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F503BX | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F503BY | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F506BX | R/A B2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F506BY | R/A B2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F512BX | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F512BY | R/A 1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G41-F022 | R/A M2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G41-F023 | R/A M2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G41-F520 | R/A M2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G41-F523 | R/A M2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 操作対象弁 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 弁番号 | 設置場所 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F030A | R/A MB1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G41-F023 | R/A M2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 操作対象弁 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 弁番号 | 設置場所 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E11-F030B | R/A MB1F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G41-F023 | R/A M2F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
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|--------------|---|---------|------|----|--|----|---|----|--|----|--|----|--|----|--|-----|---|--|---|
| | <p>b. 操作場所の評価（アクセス性含む） 溢水事象発生後の環境条件（水位、温度、線量、化学薬品、照明、感電、漂流物）の観点から評価し、アクセス性を確保し、操作可能な設計とする。 想定される環境条件の評価結果は第4表のとおり。</p> <p style="text-align: center;">第4表 想定される環境条件の評価結果</p> <table border="1" data-bbox="741 357 1319 906"> <thead> <tr> <th>環境条件</th> <th>評価結果</th> </tr> </thead> <tbody> <tr> <td>水位</td> <td>系統切替操作対象までのアクセスルートの溢水水位については、第5表に示すとおり、0～0.3mであることから歩行可能であり、アクセス性に影響はない。</td> </tr> <tr> <td>温度</td> <td>破損を想定する燃料プール冷却浄化系及び燃料プール補給水系については40℃程度であることからアクセス性に影響を与えない。</td> </tr> <tr> <td>線量</td> <td>漏えいした系統水（使用済燃料プール水）による放射線影響については、約6.5×10^{-6}mSvであり、緊急時作業に係る線量限度100 mSvと比較して十分小さく抑えられる。</td> </tr> <tr> <td>薬品</td> <td>薬品は個別の容器に保管されるものがあるが、プラスチック容器に保管されていること及び万が一漏えいが発生した場合においても、ごく微量であることからアクセス性への影響はない。</td> </tr> <tr> <td>照明</td> <td>非常用照明が確保されていることから、アクセス性に影響はない。また、対応する運転員が常時滞在している中央制御室に懐中電灯等の可搬型照明を配備しており、場所を問わず対応可能である。</td> </tr> <tr> <td>感電</td> <td>電気設備が溢水の影響を受けた場合は短絡が発生し、保護回路がそれを検知しトリップすることで、当該電気設備への給電は遮断されることから、アクセス性に影響はない。</td> </tr> <tr> <td>漂流物</td> <td>アクセスルート上の設置されているキャビネット等の設備は、固縛処置がされており、溢水が発生した場合においても漂流物になることはない。</td> </tr> </tbody> </table> <p>c. 操作内容の評価 現場弁等を操作する際に使用する工具については、各種弁の仕様や構造に応じた適正な工具を中央制御室及び管理区域内に配備し、現場弁の操作が容易に実施可能とする。 なお、弁の操作時には、対象弁に付設された機器名称・機器番号が記載された銘板と使用する手順書に記載されている機器名称・機器番号を照合し、操作対象であることを確認してから操作を行うことで、誤操作防止を図る。</p> | 環境条件 | 評価結果 | 水位 | 系統切替操作対象までのアクセスルートの溢水水位については、第5表に示すとおり、0～0.3mであることから歩行可能であり、アクセス性に影響はない。 | 温度 | 破損を想定する燃料プール冷却浄化系及び燃料プール補給水系については40℃程度であることからアクセス性に影響を与えない。 | 線量 | 漏えいした系統水（使用済燃料プール水）による放射線影響については、約 6.5×10^{-6} mSvであり、緊急時作業に係る線量限度100 mSvと比較して十分小さく抑えられる。 | 薬品 | 薬品は個別の容器に保管されるものがあるが、プラスチック容器に保管されていること及び万が一漏えいが発生した場合においても、ごく微量であることからアクセス性への影響はない。 | 照明 | 非常用照明が確保されていることから、アクセス性に影響はない。また、対応する運転員が常時滞在している中央制御室に懐中電灯等の可搬型照明を配備しており、場所を問わず対応可能である。 | 感電 | 電気設備が溢水の影響を受けた場合は短絡が発生し、保護回路がそれを検知しトリップすることで、当該電気設備への給電は遮断されることから、アクセス性に影響はない。 | 漂流物 | アクセスルート上の設置されているキャビネット等の設備は、固縛処置がされており、溢水が発生した場合においても漂流物になることはない。 | | <p>【女川】 操作の相違 ・本現場操作は泊では行わない。</p> |
| 環境条件 | 評価結果 | | | | | | | | | | | | | | | | | | |
| 水位 | 系統切替操作対象までのアクセスルートの溢水水位については、第5表に示すとおり、0～0.3mであることから歩行可能であり、アクセス性に影響はない。 | | | | | | | | | | | | | | | | | | |
| 温度 | 破損を想定する燃料プール冷却浄化系及び燃料プール補給水系については40℃程度であることからアクセス性に影響を与えない。 | | | | | | | | | | | | | | | | | | |
| 線量 | 漏えいした系統水（使用済燃料プール水）による放射線影響については、約 6.5×10^{-6} mSvであり、緊急時作業に係る線量限度100 mSvと比較して十分小さく抑えられる。 | | | | | | | | | | | | | | | | | | |
| 薬品 | 薬品は個別の容器に保管されるものがあるが、プラスチック容器に保管されていること及び万が一漏えいが発生した場合においても、ごく微量であることからアクセス性への影響はない。 | | | | | | | | | | | | | | | | | | |
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| 漂流物 | アクセスルート上の設置されているキャビネット等の設備は、固縛処置がされており、溢水が発生した場合においても漂流物になることはない。 | | | | | | | | | | | | | | | | | | |

泊発電所3号炉 DB基準適合性 比較表

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添1）

| 大阪発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|-----------------|--------|-----------------|--------|--------|-----|-----|---|--------|-----|-----|---|---------|-----|-----|---|----------|-----|-----|---|----------|-----|-----|---|--------|-----|-----|---|--------|-----|-----|---|--------|-----|-----|---|----------|-----|---|---|--------|-----|-----|---|--------|--------|-----|---|--------|--------|-----|---|--------|-----|-----|---|--------|-----|-----|---|---------|-----|---|---|---------|-----|-----|---|---------|-----|-----|---|---------|-----|-----|---|---------|-----|-----|---|----------|-----|-----|---|--|---|
| | <p>第5-1表 燃料プール冷却浄化系機能喪失時のアクセスルート溢水水位</p> <table border="1" data-bbox="741 229 1328 1002"> <thead> <tr> <th>発生区画</th> <th>想定破損</th> <th>アクセス通路上の最大水位(m)</th> <th>アクセス可否</th> </tr> </thead> <tbody> <tr><td>R-3F-1</td><td>FPC</td><td>0.3</td><td>可</td></tr> <tr><td>R-2F-2</td><td>FPC</td><td>0.3</td><td>可</td></tr> <tr><td>R-M2F-3</td><td>FPC</td><td>0.3</td><td>可</td></tr> <tr><td>R-MB1F-1</td><td>FPC</td><td>0.3</td><td>可</td></tr> <tr><td>R-MB1F-3</td><td>FPC</td><td>0.3</td><td>可</td></tr> <tr><td>R-1F-5</td><td>FPC</td><td>0.3</td><td>可</td></tr> <tr><td>R-1F-9</td><td>FPC</td><td>0.3</td><td>可</td></tr> <tr><td>R-1F-8</td><td>FPC</td><td>0.3</td><td>可</td></tr> <tr><td>R-B1F-13</td><td>FPC</td><td>0</td><td>可</td></tr> <tr><td>R-1F-3</td><td>FPC</td><td>0.3</td><td>可</td></tr> <tr><td>R-1F-3</td><td>RCW(A)</td><td>0.3</td><td>可</td></tr> <tr><td>R-1F-3</td><td>RCW(B)</td><td>0.3</td><td>可</td></tr> <tr><td>R-1F-4</td><td>FPC</td><td>0.3</td><td>可</td></tr> <tr><td>R-1F-7</td><td>FPC</td><td>0.3</td><td>可</td></tr> <tr><td>R-B1F-1</td><td>FPC</td><td>0</td><td>可</td></tr> <tr><td>R-B2F-7</td><td>FPC</td><td>0.2</td><td>可</td></tr> <tr><td>R-B2F-2</td><td>FPC</td><td>0.2</td><td>可</td></tr> <tr><td>R-B3F-3</td><td>FPC</td><td>0.2</td><td>可</td></tr> <tr><td>R-B3F-6</td><td>FPC</td><td>0.2</td><td>可</td></tr> <tr><td>R-B3F-10</td><td>FPC</td><td>0.2</td><td>可</td></tr> </tbody> </table> | 発生区画 | 想定破損 | アクセス通路上の最大水位(m) | アクセス可否 | R-3F-1 | FPC | 0.3 | 可 | R-2F-2 | FPC | 0.3 | 可 | R-M2F-3 | FPC | 0.3 | 可 | R-MB1F-1 | FPC | 0.3 | 可 | R-MB1F-3 | FPC | 0.3 | 可 | R-1F-5 | FPC | 0.3 | 可 | R-1F-9 | FPC | 0.3 | 可 | R-1F-8 | FPC | 0.3 | 可 | R-B1F-13 | FPC | 0 | 可 | R-1F-3 | FPC | 0.3 | 可 | R-1F-3 | RCW(A) | 0.3 | 可 | R-1F-3 | RCW(B) | 0.3 | 可 | R-1F-4 | FPC | 0.3 | 可 | R-1F-7 | FPC | 0.3 | 可 | R-B1F-1 | FPC | 0 | 可 | R-B2F-7 | FPC | 0.2 | 可 | R-B2F-2 | FPC | 0.2 | 可 | R-B3F-3 | FPC | 0.2 | 可 | R-B3F-6 | FPC | 0.2 | 可 | R-B3F-10 | FPC | 0.2 | 可 | | <p>【女川】 操作の相違 ・本現場操作は泊では行わない。</p> |
| 発生区画 | 想定破損 | アクセス通路上の最大水位(m) | アクセス可否 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-3F-1 | FPC | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-2F-2 | FPC | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-M2F-3 | FPC | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-MB1F-1 | FPC | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-MB1F-3 | FPC | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-1F-5 | FPC | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-1F-9 | FPC | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-1F-8 | FPC | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-B1F-13 | FPC | 0 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-1F-3 | FPC | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-1F-3 | RCW(A) | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-1F-3 | RCW(B) | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-1F-4 | FPC | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-1F-7 | FPC | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-B1F-1 | FPC | 0 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-B2F-7 | FPC | 0.2 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-B2F-2 | FPC | 0.2 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-B3F-3 | FPC | 0.2 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-B3F-6 | FPC | 0.2 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-B3F-10 | FPC | 0.2 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

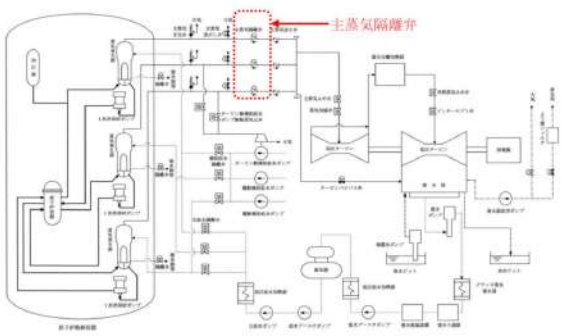
泊発電所3号炉 DB基準適合性 比較表

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添1）

| 大阪発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|-----------------|--------|-----------------|--------|--------|-------|-----|---|--------|--------|-----|---|--------|---------|-----|---|----------|--------|-----|---|--------|-------|-----|---|--------|---------|-----|---|--------|--------|-----|---|--------|------|-----|---|---------|-------|-----|---|---------|--------|-----|---|--------|--------|-----|---|--------|-------|-----|---|--------|--------|-----|---|--------|------|-----|---|--------|--------|-----|---|--------|--------|-----|---|--------|--------|-----|---|---------|--------|-----|---|---------|--------|-----|---|--|---|
| | <p data-bbox="792 213 1279 233">第5-2表 燃料プール補給水系機能喪失時のアクセスルート溢水水位</p> <table border="1" data-bbox="741 236 1330 983"> <thead> <tr> <th>発生区画</th> <th>想定破損</th> <th>アクセス通路上の最大水位(m)</th> <th>アクセス可否</th> </tr> </thead> <tbody> <tr><td>R-3F-1</td><td>FPMUW</td><td>0.3</td><td>可</td></tr> <tr><td>R-3F-1</td><td>RCW(B)</td><td>0.3</td><td>可</td></tr> <tr><td>R-3F-1</td><td>HECW(B)</td><td>0.3</td><td>可</td></tr> <tr><td>R-2F-1-3</td><td>RCW(B)</td><td>0.3</td><td>可</td></tr> <tr><td>R-2F-3</td><td>FPMUW</td><td>0.3</td><td>可</td></tr> <tr><td>R-2F-3</td><td>HECW(B)</td><td>0.3</td><td>可</td></tr> <tr><td>R-2F-3</td><td>RCW(B)</td><td>0.3</td><td>可</td></tr> <tr><td>R-2F-3</td><td>HPCW</td><td>0.3</td><td>可</td></tr> <tr><td>R-M2F-3</td><td>FPMUW</td><td>0.3</td><td>可</td></tr> <tr><td>R-M2F-3</td><td>RCW(B)</td><td>0.3</td><td>可</td></tr> <tr><td>R-1F-3</td><td>RCW(B)</td><td>0.3</td><td>可</td></tr> <tr><td>R-1F-5</td><td>FPMUW</td><td>0.3</td><td>可</td></tr> <tr><td>R-1F-5</td><td>RCW(B)</td><td>0.3</td><td>可</td></tr> <tr><td>R-1F-5</td><td>HPCW</td><td>0.3</td><td>可</td></tr> <tr><td>R-1F-6</td><td>RCW(B)</td><td>0.3</td><td>可</td></tr> <tr><td>R-1F-2</td><td>RCW(B)</td><td>0.3</td><td>可</td></tr> <tr><td>R-1F-4</td><td>RCW(B)</td><td>0.3</td><td>可</td></tr> <tr><td>R-1F-11</td><td>RCW(B)</td><td>0.3</td><td>可</td></tr> <tr><td>R-1F-11</td><td>RHR(B)</td><td>0.3</td><td>可</td></tr> </tbody> </table> | 発生区画 | 想定破損 | アクセス通路上の最大水位(m) | アクセス可否 | R-3F-1 | FPMUW | 0.3 | 可 | R-3F-1 | RCW(B) | 0.3 | 可 | R-3F-1 | HECW(B) | 0.3 | 可 | R-2F-1-3 | RCW(B) | 0.3 | 可 | R-2F-3 | FPMUW | 0.3 | 可 | R-2F-3 | HECW(B) | 0.3 | 可 | R-2F-3 | RCW(B) | 0.3 | 可 | R-2F-3 | HPCW | 0.3 | 可 | R-M2F-3 | FPMUW | 0.3 | 可 | R-M2F-3 | RCW(B) | 0.3 | 可 | R-1F-3 | RCW(B) | 0.3 | 可 | R-1F-5 | FPMUW | 0.3 | 可 | R-1F-5 | RCW(B) | 0.3 | 可 | R-1F-5 | HPCW | 0.3 | 可 | R-1F-6 | RCW(B) | 0.3 | 可 | R-1F-2 | RCW(B) | 0.3 | 可 | R-1F-4 | RCW(B) | 0.3 | 可 | R-1F-11 | RCW(B) | 0.3 | 可 | R-1F-11 | RHR(B) | 0.3 | 可 | | <p data-bbox="2018 142 2175 248">【女川】 操作の相違 ・本現場操作は泊では行わない。</p> |
| 発生区画 | 想定破損 | アクセス通路上の最大水位(m) | アクセス可否 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-3F-1 | FPMUW | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-3F-1 | RCW(B) | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-3F-1 | HECW(B) | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-2F-1-3 | RCW(B) | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-2F-3 | FPMUW | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-2F-3 | HECW(B) | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-2F-3 | RCW(B) | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-2F-3 | HPCW | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-M2F-3 | FPMUW | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-M2F-3 | RCW(B) | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-1F-3 | RCW(B) | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-1F-5 | FPMUW | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-1F-5 | RCW(B) | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-1F-5 | HPCW | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-1F-6 | RCW(B) | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-1F-2 | RCW(B) | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-1F-4 | RCW(B) | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-1F-11 | RCW(B) | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-1F-11 | RHR(B) | 0.3 | 可 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
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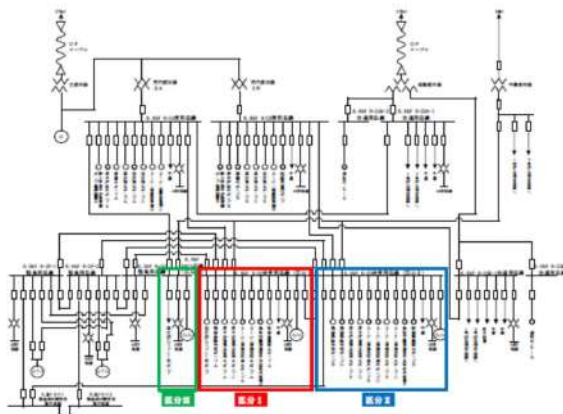
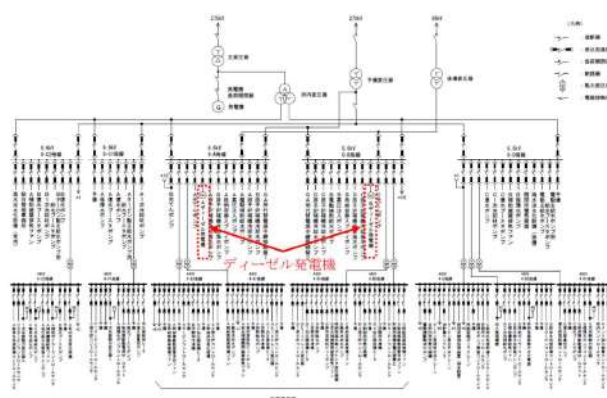
| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--------------|-------------|---|--|
| | | <p>1. 蒸気発生器伝熱管破損時における主蒸気隔離弁増し締め操作</p> <p>(1) 設備概要</p> <p>各主蒸気管に主蒸気隔離弁を設けており、主蒸気管破断や蒸気発生器伝熱管破損の事故発生時に破損側の設備を隔離できる設計としている。主蒸気隔離弁の操作は中央制御室から遠隔にて実施することが可能であるが、主蒸気隔離弁の閉止機能の信頼性向上を図るため、閉弁操作後、現場で同弁を増締めすることができる設計としている。</p>  <p>図1 1次及び2次冷却設備系統概要図</p> <p>(2) 必要となる操作の概要</p> <p>蒸気発生器伝熱管破損時に2次冷却系への放射性物質の拡散を回避するため、破損側蒸気発生器につながる主蒸気隔離弁を中央制御室での遠隔操作により閉止する。主蒸気隔離弁の閉止機能の信頼性向上を図るため、閉弁操作後現場で同弁を増締めすることとしている。</p> <p>(3) 操作容易性の評価結果</p> <p>a. 想定される環境条件</p> <p>本事象は、設置変更許可申請書添付書類十の「蒸気発生器伝熱管破損」における拡大防止対策として実施する操作である。</p> <p>現場操作が必要となる起因事象として、地震、津波、設置許可基準規則第6条に示す設計基準事象、内部火災、内部溢水、運転時の異常な過渡変化、設計基準事故を想定する。これらの起因事象と同時にもたらされる環境条件については以下の通り。</p> <ul style="list-style-type: none"> ・火災に伴う炎、煙の発生及び温度上昇（起因事象：内部火災） ・溢水に伴う水位、温度、線量上昇、化学薬品、照明喪失、感電、漂流物（起因事象：内部溢水） ・余震（起因事象：地震） ・照明等の所内電源の喪失（起因事象：地震、竜巻、風（台風）、積雪、落雷、外部火災、火山の影響、降水（豪雨（降 | <p>【女川】 操作の相違 ・本現場操作は女川では行わない。</p> |

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第10条 誤操作の防止（別添1）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--------------|-------------|---|--|
| | | <p>雨))、生物学的事象)</p> <ul style="list-style-type: none"> ・ばい煙又は有毒ガスの発生（起因事象：外部火災） ・降下火砕物（起因事象：火山） ・凍結（起因事象：凍結） <p>b. 操作場所の評価（アクセス性含む）</p> <p>①火災に伴う炎、煙の発生及び温度上昇による操作性への影響 主蒸気管室の耐震Sクラス機器は、耐震を考慮した設計であり、地震が発生した場合でも、火災が発生することはない。また主蒸気管室及びアクセスルートは、耐震性を有する建屋であり、火災防護対策を実施していることから、早期の火災感知及び消火が可能である。</p> <p>②溢水に伴う水位、温度、線量上昇、化学薬品、照明喪失、感電、漂流物による操作性への影響 アクセスルートにおける溢水水位を歩行に支障のない水位に抑える等により、溢水に伴う現場操作への影響はない。</p> <p>③余震による操作性への影響 運転員は地震が発生した場合、操作を中止し安全確保に努める。</p> <p>④照明等の所内電源の喪失 外部電源喪失時においても、現場及びアクセスルートの照明は、ディーゼル発電機から給電され、機能が喪失しない設計とする。</p> <p>⑤ばい煙又は有毒ガスの発生による建屋内環境への影響及び降下火砕物による建屋内環境への影響 外気取入運転を行っている換気空調設備は、外気取入口にフィルタを設置しているため、ばい煙又は降下火砕物による建屋内環境への影響はない。また、空調ファンを停止し、外気取入を遮断することから建屋内環境への影響はない。</p> <p>⑥凍結による建屋内環境への影響 換気空調設備により環境温度が維持されるため、建屋内環境への影響はない。</p> <p>c. 操作内容の評価 主蒸気隔離弁増し締め操作を実施する際は、当該弁で状態を確認できることにより、操作が実施されたことの確認は現場にて容易に可能な設計とする。 なお、現場において操作を行う弁に付設された機器名称・機器番号が記載された銘板と使用する手順書に記載されている機器名称・機器番号を照合し、操作対象であることを確認してから操作を行うことで、誤操作防止を図る。</p> | <p>【女川】 操作の相違 ・本現場操作は女川では行わない。</p> |

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| | <p>4. 全交流動力電源喪失時の現場操作</p> <p>(1) 設備概要</p> <p>非常用ディーゼル発電機(高圧炉心スプレィ系ディーゼル発電機を含む。)(非常用所内電源系含む。)の3系統の設備は、1系統の故障が他のすべての系統に波及しないよう、それぞれ区画されたエリアに分離又は位置的分散を図るように配置する設計とする。空調系や冷却系についてもそれぞれ異なる区分から供給しており、1系統の空調系や冷却系の故障が他のすべての系統に影響を及ぼさないよう設計しているが、何らかの要因により全交流動力電源喪失が発生した場合に備えて、直流電源の延命のための負荷抑制を実施する手順を整備している。</p> <p>なお、重大事故等時の対応として常設代替交流電源設備による交流電源供給の手順も整備している。</p> <p>第4図に非常用ディーゼル発電機(高圧炉心スプレィ系ディーゼル発電機を含む。)(非常用所内電源系含む。)の系統構成を示す。</p>  <p>第4図 非常用ディーゼル発電機(高圧炉心スプレィ系ディーゼル発電機を含む。)(非常用所内電源系含む。)系統構成図</p> <p>(2) 必要となる操作の概要</p> <p>全交流動力電源喪失時で、非常用ディーゼル発電機(高圧炉心スプレィ系ディーゼル発電機を含む。)の中央制御室での起動操作に失敗した場合は、以下の現場操作を実施する。</p> <p>① 非常用ディーゼル発電機(高圧炉心スプレィ系ディーゼル発電機を含む。)の起動失敗確認及び現場盤での起動操作</p> | <p>2. 全交流動力電源喪失時の現場操作</p> <p>(1) 設備概要</p> <p>ディーゼル発電機の2系統の設備は、1系統の故障が他のすべての系統に波及しないよう、それぞれ区画されたエリアに分離又は位置的分散を図るように配置する設計とする。空調系や冷却系についてもそれぞれ異なる系統から供給しており、1系統の空調系や冷却系の故障が他の系統に影響を及ぼさないよう設計しているが、何らかの要因により全交流動力電源喪失が発生した場合に備えて、対応手順を整備している。</p> <p>以下にディーゼル発電機の系統構成を示す。</p>  <p>図2 所内単線結線図</p> <p>(2) 必要となる操作の概要</p> <p>全交流動力電源喪失時で、ディーゼル発電機の中央制御室での起動操作に失敗した場合は、以下の現場操作を実施する。</p> <p>① 2次冷却系強制冷却のための主蒸気逃がし弁操作 ② 代替非常用発電機からの給電操作 ③ ディーゼル発電機復旧操作</p> | <p>【女川】 名称の相違 ・非常用ディーゼル発電機⇔ディーゼル発電機 ・区分⇔系統</p> <p>【女川】 設備の相違 ・系列数の相違</p> <p>【女川】 記載表現の相違 ・SBO時に行う対応手順の記載が異なる。SBO時の代替非常用発電機からの給電操作は泊は対象の現場操作として抽出している。なお、女川記載の負荷抑制手順は後述で重大事故時の対応操作とされている。</p> <p>【女川】 操作の相違 ・SBO時に操作を行う点は同じであるが、操作項目は女川と泊で異なる。</p> <p>【女川】 記載表現の相違</p> |

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| | <p>なお、重大事故等時の対応として、以下の現場操作を必要とする。</p> <ul style="list-style-type: none"> 全交流動力電源喪失時における計測制御電源室（制御建屋地下1階）での負荷抑制操作 <p>(3) 操作容易性の評価結果</p> <p>a. 想定される環境条件</p> <p>照明喪失（起因事象：全交流動力電源喪失）</p> <p>本事象は、設置許可基準規則第14条「全交流動力電源喪失対策設備」に関する適合状況説明資料において、全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が常設代替交流電源設備から開始されるまでに必要とする操作である。</p> <p>全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が常設代替交流電源設備から開始されるまでの間、原子炉の安全停止、原子炉停止後の炉心冷却、原子炉格納容器の健全性確保のための設備が動作することができるよう、必要な容量を有する蓄電池(非常用)を設置する設計としていることから、上記以外の新たな環境条件は発生しない。</p> <p>b. 操作場所の評価（アクセス性含む）</p> | <p>なお、重大事故等時の対応として、以下の現場操作を必要とする。</p> <ul style="list-style-type: none"> 全交流動力電源喪失時における安全補機開閉器室（原子炉補助建屋T.P.10.3m）での負荷抑制操作 <p>(3) 操作容易性の評価結果</p> <p>a. 想定される環境条件</p> <p>本事象は、設置許可基準規則第14条「全交流動力電源喪失対策設備」に関する適合状況説明資料において、全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が代替非常用発電機から開始されるまでに必要とする操作である。</p> <p>現場操作が必要となる起因事象として、地震、津波、設置許可基準規則第6条に示す設計基準事象、内部火災、内部溢水、運転時の異常な過渡変化、設計基準事故を想定する。これらの起因事象と同時にもたらされる環境条件については以下の通り。</p> <ul style="list-style-type: none"> 火災に伴う炎、煙の発生及び温度上昇（起因事象：内部火災） 溢水に伴う水位、温度、線量上昇、化学薬品、照明喪失、感電、漂流物（起因事象：内部溢水） 余震（起因事象：地震） 照明等の所内電源の喪失（起因事象：地震、竜巻、風（台風）、積雪、落雷、外部火災、火山の影響、降水（豪雨（降雨））、生物学的事象） ばい煙又は有毒ガスの発生（起因事象：外部火災） 降下火砕物（起因事象：火山） 凍結（起因事象：凍結） <p>b. 操作場所の評価（アクセス性含む）</p> <p>①火災に伴う炎、煙の発生及び温度上昇による操作性への影響</p> <p>主蒸気管室、安全補機開閉器室、ディーゼル発電機室の耐震Sクラス機器は、耐震を考慮した設計であり、地震が発生した場合でも、火災が発生することはない。また主蒸気管室、安全補機開閉器室、ディーゼル発電機室及びアクセスルートは、耐震性を有する建屋であり、火災防護対策を実施していることから、早期の火災感知及び消火が可能である。</p> | <p>相違理由</p> <p>【女川】 建屋配置の相違</p> <p>【女川】 名称の相違 ・常設代替交流電源設備⇔代替非常用発電機</p> <p>【女川】 対応の相違 ・本現場操作は全交流動力電源喪失を起因事象としたものであり、女川は環境条件として照明喪失のみ選定している。泊は「有意な可能性をもって同時にもたらされる環境条件」として、想定される全ての環境条件を考慮しており、大飯と同様の考え方である。 ・以降の女川で考慮していない環境条件については識別を省略する。</p> <p>識別を省略</p> |

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| | <p>全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が常設代替交流電源設備から開始されるまでの間においても操作できるように、蓄電池(非常用)から受電する直流照明兼非常用照明を設置しており、アクセス性を確保し、操作可能な設計とする。</p> <p>c. 操作内容の評価 全交流動力電源喪失時に操作を実施する際は、当該制御盤で状態を確認できることにより、操作が実施されたことの確認は現場にて容易に可能な設計とする。 なお、現場において操作を行う盤に付設された機器名称・機器番号が記載された銘板と使用する手順書に記載されている機器名称・機器番号を照合し、操作対象であることを確認してから操作を行うことで、誤操作防止を図る。</p> | <p>②溢水に伴う水位、温度、線量上昇、化学薬品、照明喪失、感電、漂流物による操作性への影響 アクセスルートにおける溢水水位を歩行に支障のない水位に抑える等により、溢水に伴う現場操作への影響はない。</p> <p>③余震による操作性への影響 運転員は地震が発生した場合、操作を中止し安全確保に努める。</p> <p>④照明等の所内電源の喪失 全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が代替非常用発電機から開始されるまでの間においても操作できるように、無停電運転保安灯及び可搬型照明を設置しており、アクセス性を確保し、操作可能な設計とする。</p> <p>⑤ばい煙又は有毒ガスの発生による建屋内環境への影響及び降下火砕物による建屋内環境への影響 外気取入運転を行っている換気空調設備は、外気取入口にフィルタを設置しているため、ばい煙又は降下火砕物による建屋内環境への影響はない。また、空調ファンを停止し、外気取入を遮断することから建屋内環境への影響はない。</p> <p>⑥凍結による建屋内環境への影響 換気空調設備により環境温度が維持されるため、建屋内環境への影響はない。</p> <p>c. 操作内容の評価 全交流動力電源喪失時に操作を実施する際は、当該弁、遮断器及び盤で状態を確認できることにより、操作が実施されたことの確認は現場にて容易に可能な設計とする。 なお、現場において操作を行う弁、遮断器及び盤に付設された機器名称・機器番号が記載された銘板と使用する手順書に記載されている機器名称・機器番号を照合し、操作対象であることを確認してから操作を行うことで、誤操作防止を図る。</p> | <p>識別を省略</p> <p>識別を省略</p> <p>【女川】 名称の相違 ・常設代替交流電源設備⇔代替非常用発電機 【女川】 設備の相違 ・女川は非常用直流電源から給電する直流照明兼非常用照明を設置している。泊は全交流動力電源喪失時の照明は無停電運転保安灯及び可搬型照明にて確保する。</p> <p>識別を省略</p> <p>識別を省略</p> <p>【女川】 操作対象の相違</p> |

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第10条 誤操作の防止（別添1）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--------------|---|---|--|
| | <p>5. 中央制御室外原子炉停止操作</p> <p>(1) 設備概要 中央制御室内での操作が火災等の要因により困難な場合には、原子炉施設を安全な状態に維持するために、必要な計測制御を含め中央制御室以外の適切な場所からも、適切な手順を用いて原子炉スクラム後の冷温状態に導くことができる設計としている。</p> <p>(2) 必要となる操作の概要 火災その他の異常な事態により中央制御室内での操作が困難な場合、中央制御室外原子炉停止室（制御建屋地下1階）の制御盤の操作器にて、原子炉スクラム後の高温状態から冷温状態に移行させる操作が必要となる。 なお、中央制御室から避難する必要がある場合、中央制御室を出る前に原子炉スクラム操作を実施するが、スクラム操作が不可能な場合は、中央制御室外において原子炉保護系論理回路の電源を遮断すること等により行うことができる設計とする。</p> <p>(3) 操作容易性の評価結果 a. 想定される環境条件 炎、温度、煙（起回事象：内部火災） 本事象は設置許可基準規則第8条「火災による損傷の防止」に関する適合状況説明資料が必要とされる、安全施設が安全機能を損わないために必要な現場操作である。 本操作は、単一の内部火災が起因となっていることから、想定される環境条件は炎、温度、煙である。また、この火災に伴い金属等の不燃材料で構成する配管、弁類は火災による損傷はないことから、上記以外の新たな環境条件は発生しない。</p> | <p>3. 中央制御室外原子炉停止盤操作</p> <p>(1) 設備概要 中央制御室内での操作が火災等の要因により困難な場合には、発電用原子炉施設を安全な状態に維持するために、必要な計測制御を含め中央制御室以外の適切な場所からも、適切な手順を用いて原子炉トリップ後の冷温状態に導くことができる設計としている。</p> <p>(2) 必要となる操作の概要 火災その他の異常な事態により中央制御室内での操作が困難な場合、中央制御室外原子炉停止盤の操作器にて、原子炉トリップ後の高温状態から冷温状態に移行させる操作が必要となる。 なお、中央制御室から避難する必要がある場合、中央制御室を出る前に原子炉トリップ操作を実施するが、トリップ操作が不可能な場合は、中央制御室外において、原子炉トリップ遮断器を開くか、現場でタービントリップさせることにより行うことができる。</p> <p>(3) 操作容易性の評価結果 a. 想定される環境条件 本事象は設置許可基準規則第26条「原子炉制御室等」に関する適合状況説明資料において、中央制御室において操作が困難な場合に必要となる現場操作である。 現場操作が必要となる起回事象として、地震、津波、設置許可基準規則第6条に示す設計基準事象、内部火災、内部溢水、運転時の異常な過渡変化、設計基準事故を想定する。これらの起回事象と同時に与えられる環境条件については以下の通り。 ・火災に伴う炎、煙の発生及び温度上昇（起回事象：内部火災） ・溢水に伴う水位、温度、線量上昇、化学薬品、照明喪失、感電、漂流物（起回事象：内部溢水） ・余震（起回事象：地震） ・照明等の所内電源の喪失（起回事象：地震、竜巻、風（台風）、積雪、落雷、外部火災、火山の影響、降水（豪雨（降雨））、生物学的事象） ・ばい煙又は有毒ガスの発生（起回事象：外部火災） ・降下火砕物（起回事象：火山） ・凍結（起回事象：凍結）</p> | <p>【女川】 記載表現の相違</p> <p>【女川】 名称の相違 ・スクラム⇄トリップ</p> <p>【女川】 記載内容の相違 ・要求条文的相違</p> <p>【女川】 対応の相違 ・女川は、本現場操作は内部火災を起回事象としたもので、環境条件として炎、温度、煙のみ選定している。泊は「有意な可能性をもって同時に与えられる環境条件」として、想定される全ての環境条件を考慮している。</p> |

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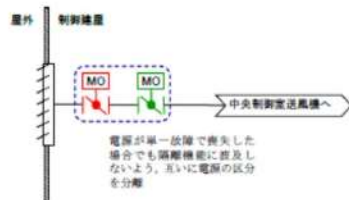
第10条 誤操作の防止（別添1）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--------------|--|--|---|
| | <p>b. 操作場所の評価（アクセス性含む）</p> <p>中央制御室が火災等の何らかの要因で被害を受けた場合、中央制御室外原子炉停止操作室は中央制御室とは位置的に分散され、アクセス性を確保し、操作可能な設計とする。</p> | <p>b. 操作場所の評価（アクセス性含む）</p> <p>①火災に伴う炎、煙の発生及び温度上昇による操作性への影響 中央制御室が火災等の何らかの要因で被害を受けた場合、中央制御室外原子炉停止盤室は中央制御室とは位置的に分散され、アクセス性を確保し、操作可能な設計とする。</p> <p>②溢水に伴う水位、温度、線量上昇、化学薬品、照明喪失、感電、漂流物による操作性への影響 アクセスルートにおける溢水水位を歩行に支障のない水位に抑える等により、溢水に伴う現場操作への影響はない。</p> <p>③余震による操作性への影響 運転員は地震が発生した場合、操作を中止し安全確保に努める。</p> <p>④照明等の所内電源の喪失 外部電源喪失時においても、現場及びアクセスルートの照明は、ディーゼル発電機から給電され、機能が喪失しない設計とする。</p> <p>⑤ばい煙又は有毒ガスの発生による建屋内環境への影響及び降下火砕物による建屋内環境への影響 外気取入運転を行っている換気空調設備は、外気取入口にフィルタを設置しているため、ばい煙又は降下火砕物による建屋内環境への影響はない。また、空調ファンを停止し、外気取入を遮断</p> | <p>【女川】 名称の相違 ・中央制御室外原子炉停止操作室⇔中央制御室外原子炉停止盤室</p> <p>【女川】 対応の相違 ・女川は、本現場操作は内部火災を起因事象としたもので、環境条件として炎、温度、煙のみ選定している。泊は「有意な可能性をもって同時にもたらされる環境条件」として、想定される全ての環境条件を考慮している。</p> <p>・以降の女川で考慮していない環境条件については識別を省略する。</p> <p>識別を省略</p> <p>識別を省略</p> <p>識別を省略</p> <p>識別を省略</p> |

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| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--------------|--|---|---|
| | <p>c. 操作内容の評価</p> <p>中央制御室外原子炉停止操作室の制御盤は、原子炉を冷温停止させるために必要な系統のポンプや弁の操作器、監視計器等から構成されており、使用する手順書を確認しながら操作を行うことで、誤操作を防止する。</p> <p>系統毎に関連する監視計器、状態表示を極力近接配置することにより、操作が実施されたことの確認も容易である。(第5図参照)</p>  <p>第5図：中央制御室外原子炉停止操作室における制御盤の操作器配置例</p> | <p>することから建屋内環境への影響はない。</p> <p>⑥凍結による建屋内環境への影響 換気空調設備により環境温度が維持されるため、建屋内環境への影響はない。</p> <p>c. 操作内容の評価</p> <p>中央制御室外原子炉停止盤は、発電用原子炉を冷温停止させるために必要な系統のポンプや弁の操作器、監視計器等から構成されており、使用する手順書を確認しながら操作を行うことで、誤操作を防止する。</p> <p>系統ごとに関連する監視計器、状態表示を極力近接配置することにより、操作が実施されたことの確認も容易である。</p>  <p>図3 中央制御室外原子炉停止盤における配置例</p> | <p>識別を省略</p> <p>【女川】 記載表現の相違</p> |

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| 大阪発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|------------|--|---------|---|
| | <p>6. 中央制御室外気取入ダンパの開操作</p> <p>(1) 設備概要</p> <p>中央制御室換気空調系は通常時は外気取入ダンパを開状態とし、外気を一部取り入れながら運転しているが、事故が発生した場合には、運転員が中央制御室にとどまり、必要な運転操作を継続することができるようにするために、外気から隔離する設計としている。当該ダンパは、制御建屋の非管理区域に設置しており、外気との隔離を確実にするために、ダンパ駆動源である電源が単一故障で喪失した場合でも、もう一方の隔離機能に波及しないよう、互いに電源の区分を分離した設計としている。</p> <p>第6図に中央制御室換気空調系外気取入ラインの概要を示す。</p>  <p>第6図：中央制御室換気空調系外気取入ラインの概要</p> <p>(2) 必要となる操作の概要</p> <p>中央制御室外気取入ダンパは中央制御室換気空調系の外気取入に必要な機器であるが、火災発生時に誤信号が発生してダンパが全閉し、外気取入ラインが機能喪失した場合、中央制御室環境維持のために、少量の空気を取り入れるため、現場（制御建屋地下1階及び制御建屋地下2階）にて電源切操作及び手動開操作を実施する。</p> <p>(3) 操作容易性の評価結果</p> <p>a. 想定される環境条件</p> <p>炎、温度、煙（起因事象：内部火災）</p> <p>本事象は設置許可基準規則第8条「火災による損傷の防止」に関する適合状況説明資料で必要とされる、安全施設が安全機能を損わないために必要な現場操作である。本操作は、単一の内部火災が起因となっていることから、想定される環境条件は炎、温度、煙である。また、この火災に伴い金属等の不燃材料で構成する配管、弁類は火災による損傷はないことから、上記以外の新たな環境条件は発生しない。</p> <p>b. 操作場所の評価（アクセス性含む）</p> <p>外気取入操作が必要となる中央制御室内の二酸化炭素濃度の上昇までには時間的余裕があることから、全域ガス消火設備による消火後、消火ガスを排出するとともに、室内温度を低下させ、人がアクセス可能な環境とすることにより、ダンパ操作に必要な環境を確保する。</p> | | <p>【女川】 操作の相違 ・本現場操作は泊では行わない。</p> |

泊発電所3号炉 DB基準適合性 比較表

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第10条 誤操作の防止（別添1）

| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|------------|---|---------|---|
| | <p>c. 操作内容の評価</p> <p>ダンパの手動開操作時は、操作用ハンドル機構及び開度表示を当該ダンパに設置することにより、操作及び操作が実施されたことの現場確認が容易に実施可能な設計とする。また、電源切操作についても、当該モータコントロールセンタで電源切状態を確認できることにより、操作が実施されたことの確認は現場にて容易に可能な設計とする。</p> <p>なお、ダンパの手動開操作及び電源切操作時には、対象設備に付設された機器名称・機器番号が記載された銘板を設置することにより、使用する手順書に記載されている機器名称・機器番号を照合できるようにし、操作対象であることを確認してから操作を行うことで、誤操作防止を図る。</p> | | <p>【女川】 操作の相違 ・本現場操作は泊では行わない。</p> |

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第10条 誤操作の防止（別添1）

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|--|--|--|--|
| <p>比較のため、2.5.3から抜粋して記載箇所入替</p> <p>3号炉現場操作場所までのアクセスルート</p> <ul style="list-style-type: none"> 主蒸気隔離弁増し締め操作、主蒸気逃がし弁操作 中央制御室⇒主蒸気・主給水管室 (①→②→⑤→⑦) 空冷式非常用発電装置からの給電操作 中央制御室⇒安全補機開閉器室 (①→②→⑨→⑩) ディーゼル発電機復旧操作 中央制御室⇒A ディーゼル発電機室 (①→② ⑤ ⑥ ③ ⑪ ⑬ ⑭) 中央制御室⇒B ディーゼル発電機室 (①→② ⑤ ⑧ ④ ⑫ ⑮ ⑯) <div style="border: 1px solid black; height: 300px; width: 100%;"></div> <p>4号炉現場操作場所までのアクセスルート</p> <ul style="list-style-type: none"> 主蒸気隔離弁増し締め操作、主蒸気逃がし弁操作 中央制御室⇒主蒸気・主給水管室 (①→②→⑤→⑦) 空冷式非常用発電装置からの給電操作 中央制御室⇒安全補機開閉器室 (①→②→⑨→⑩) ディーゼル発電機復旧操作 中央制御室⇒A ディーゼル発電機室 (①→② ⑤ ⑧ ④ ⑫ ⑮ ⑯) 中央制御室⇒B ディーゼル発電機室 (① ② ⑤ ⑥ ③ ⑪ ⑬ ⑭) <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>枠囲みの範囲は機密に係る事項ですので公開することはできません。</p> </div> | <p>【女川2号炉のアクセスルートは別紙2の添付資料3に掲載されているが、マスキングのため詳細不明。比較表への添付は省略する。】</p> | <div style="border: 1px solid black; height: 400px; width: 100%;"></div> <p>図4 現場までのアクセスルート (中央制御室→主蒸気管室、安全補機開閉器室、ディーゼル発電機室、中央制御室外原子炉停止盤室)</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>枠囲みの範囲は機密に係る事項ですので公開することはできません。</p> </div> | <p>【大飯】 記載内容の相違</p> <ul style="list-style-type: none"> 大飯はアクセスルートを番号で識別、泊は図中の色で識別している。 |

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第10条 誤操作の防止（別添1）

| 大飯発電所3／4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|---|-------------|---------|------|
| <p data-bbox="107 140 526 167">比較のため、2.6.3から抜粋して記載箇所入替</p> <div data-bbox="71 194 712 1008" style="border: 2px solid black; height: 510px;"></div> <div data-bbox="138 1040 642 1077" style="border: 1px solid black; padding: 2px;"> <p>枠囲みの範囲は機密に係る事項ですので公開することはできません。</p> </div> | | | |

泊発電所3号炉 DB基準適合性 比較表

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第10条 誤操作の防止（別添1）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--------------|--|---------|---|
| | <p style="text-align: right;">参考資料</p> <p>新規制基準適合性に係る現場操作において想定される環境条件の選定</p> <p>現場操作において想定される環境条件の抽出に当たっては、人的影響、アクセス性の観点から抽出し、新規制基準適合性に係る審査において必要な現場操作毎に考慮すべき環境条件を選定した。選定結果を第1表に示す。</p> | | <p>【女川】</p> <p>対応の相違</p> <p>・女川は抽出した現場操作に対し、その操作の起回事象がもたらす環境条件の選定を行っている。(例:全交流動力電源喪失時の対応操作は、環境条件として照明喪失のみ選定) 泊は「有意な可能性をもって同時にもたらされる環境条件」として、想定される全ての環境条件を考慮しており、大飯と同様の考え方である。</p> |

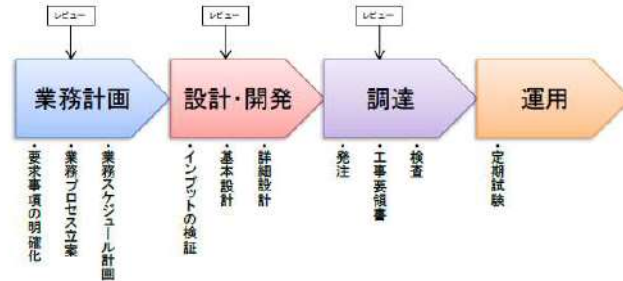
赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大飯発電所3 / 4号炉 | | 女川原子力発電所2号炉 | | 泊発電所3号炉 | | 相違理由 | |
|--|--------------------------------------|---|---|---|---|---|---|
| 第1表 新規DB基準適合性に係る現場操作において想定される環境条件の選定結果一覧 (1/4) | | | | | | | |
| 現場操作・ 該当条文 環境 条件 | 現用高圧5号原子炉 停止時高圧モード 緊急クォーランの閉操作 | 第8条 ○ | 第12条 ○ | 第8条 ○ | 第12条 ○ | 中央制御室外気取入 ダレンの開操作 | |
| | 質量 | 管理区域外の現場操作 であるため、 ○ | 大気に伴い、現場の室温 が上昇するため、 ○ | 管理区域外の現場操作 であるため考慮不要。 × | 管理区域外の現場操作 であるため考慮不要。 × | 管理区域外の現場操作 であるため考慮不要。 × | |
| | 湿度 | 大気又は事故に伴い、現 場の湿度が上昇するた め、 ○ | 大気に伴い、湿度の上昇 が発生するため、 ○ | 大気に伴い、湿度の上昇 が発生するため、 ○ | 全交流動力電源喪失時 は高圧側停交電電源設 備から早期に電源が供 給され空調が使用する ことから急激な湿度変 化は生じないため考慮 不要。 × | 全交流動力電源喪失時 の現場操作 であるため考慮不要。 × | 大気に伴い、現場の室温 が上昇するため、 ○ |
| | 人的 影響 | 現場操作に影響する湿度の変化は生じないため考慮不要。 × | 湿度が起因の事象であ り、湿度は発生しないた め考慮不要。 × | 湿度が起因の事象であ り、湿度は発生しないた め考慮不要。 × | 外部電源喪失及び非常 用電源喪失が起因の事 象であり、湿度は発生しな いため考慮不要。 × | 外部電源喪失及び非常 用電源喪失が起因の事 象であり、湿度は発生しな いため考慮不要。 × | 大気に伴い、湿度が発生す るため、 ○ |
| | 二酸化炭素 | 大気による二酸化炭素 濃度の上昇が想定され るが、前火災了までは 現場に立ち入りな いため考慮不要。 × | 大気による二酸化炭素 濃度の上昇が想定され るが、前火災了までは 現場に立ち入りな いため考慮不要。 × | 大気による二酸化炭素 濃度の上昇が想定され るが、前火災了までは 現場に立ち入りな いため考慮不要。 × | 外部電源喪失及び非常 用電源喪失が起因の事 象であり、二酸化炭素 濃度の上昇が想定され るが、前火災了までは 現場に立ち入りな いため考慮不要。 × | 外部電源喪失及び非常 用電源喪失が起因の事 象であり、二酸化炭素 濃度の上昇が想定され るが、前火災了までは 現場に立ち入りな いため考慮不要。 × | 大気による二酸化炭素 濃度の上昇が想定され るが、前火災了までは 現場に立ち入りな いため考慮不要。 × |

凡例 ○：考慮必要，×：考慮不要

【女川】
 対応の相違
 ・女川は抽出した現場操作に対し、その操作の起因事象がもたらす環境条件の選定を行っている。(例:全交流動力電源喪失時の対応操作は、環境条件として照明喪失のみ選定) 泊は「有意な可能性をもって同時にもたらされる環境条件」として、想定される全ての環境条件を考慮しており、大飯と同様の考え方である。

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大阪発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|---------|------|------|--|-------|--|----|---|----|------------------------------|--|------|------|------|--|---------|--|-------|---------------------------------------|--------|---|----------|----------------------------------|--|
| | <p style="text-align: right;">別紙3</p> <p style="text-align: center;">制御盤等の設計方針に関する実運用への反映について</p> <p>運転員の誤操作を防止するため、JEAC 4624「原子力発電所の中央制御室における誤操作防止の設備設計に関する規程」や社内設計標準に基づき、盤の配置や識別管理、操作器具等の操作性に留意するとともに、計器表示及び警報表示により原子炉施設の状態を正確、かつ、迅速に把握できる設計としている。</p> <p>現在の設備について、改造等が発生した場合も第1表の設計管理プロセスにより、上記の設計内容が反映されることを適切に管理している。</p> <p style="text-align: center;">第1表 各プロセスにおける実施内容</p> <table border="1" data-bbox="728 635 1348 890"> <thead> <tr> <th>プロセス</th> <th>実施内容</th> </tr> </thead> <tbody> <tr> <td>業務計画</td> <td>要求事項の明確化、業務プロセス立案、業務スケジュール計画、妥当性確認方法に関する基本方針を設定するためのプロセス</td> </tr> <tr> <td>設計・開発</td> <td>インプット（要求事項）を検証し、基本設計、詳細設計を実施し、各ポイントにてその妥当性を検討・検証するプロセス</td> </tr> <tr> <td>調達</td> <td>詳細設計検討結果等を元に供給者へ発注し、受注者の設計・検討状況の確認、設計図書承認、工場試験や起動試験により、当初の要求事項に適合していることを確認するためのプロセス</td> </tr> <tr> <td>運用</td> <td>運用開始後に当該設計に問題がなかったかを評価するプロセス</td> </tr> </tbody> </table> <div style="text-align: center;">  <p>第1図 業務プロセス概要図</p> </div> | プロセス | 実施内容 | 業務計画 | 要求事項の明確化、業務プロセス立案、業務スケジュール計画、妥当性確認方法に関する基本方針を設定するためのプロセス | 設計・開発 | インプット（要求事項）を検証し、基本設計、詳細設計を実施し、各ポイントにてその妥当性を検討・検証するプロセス | 調達 | 詳細設計検討結果等を元に供給者へ発注し、受注者の設計・検討状況の確認、設計図書承認、工場試験や起動試験により、当初の要求事項に適合していることを確認するためのプロセス | 運用 | 運用開始後に当該設計に問題がなかったかを評価するプロセス | <p style="text-align: right;">別紙3</p> <p style="text-align: center;">制御盤等の設計方針に関する実運用への反映について</p> <p>運転員の誤操作を防止するため、JEAC 4624「原子力発電所の中央制御室における誤操作防止の設備設計に関する規程」や社内手順に基づき、盤の配置や識別管理、操作器具等の操作性に留意するとともに、計器表示及び警報表示により発電用原子炉施設の状態を正確、かつ、迅速に把握できる設計としている。</p> <p>現在の設備について、改造等が発生した場合も表1の設計管理プロセスにより、上記の設計内容が反映されることを適切に管理している。</p> <p style="text-align: center;">表1 設計管理プロセスの実施内容</p> <table border="1" data-bbox="1370 635 1995 1018"> <thead> <tr> <th>プロセス</th> <th>実施内容</th> </tr> </thead> <tbody> <tr> <td>設計計画</td> <td>設計のインプットから妥当性確認までのプロセスの全体像、設計に関する責任及び権限並びに設計に関与する関係箇所間のインタフェースを明確にする</td> </tr> <tr> <td>設計方針書策定</td> <td>基本設計とし、仕様、環境条件、品質重要度、工程、設計取合い境界等の要求事項を明確にする。</td> </tr> <tr> <td>仕様書策定</td> <td>設計方針書策定段階にて明確化した設計要求事項を受け、調達仕様書を作成する。</td> </tr> <tr> <td>詳細設計検証</td> <td>調達先から提出された設計図書の内容が仕様書の調達要求事項を満足していることを検証する。</td> </tr> <tr> <td>設計の妥当性確認</td> <td>設備が要求した機能を満足することを試運転、検査等により確認する。</td> </tr> </tbody> </table> | プロセス | 実施内容 | 設計計画 | 設計のインプットから妥当性確認までのプロセスの全体像、設計に関する責任及び権限並びに設計に関与する関係箇所間のインタフェースを明確にする | 設計方針書策定 | 基本設計とし、仕様、環境条件、品質重要度、工程、設計取合い境界等の要求事項を明確にする。 | 仕様書策定 | 設計方針書策定段階にて明確化した設計要求事項を受け、調達仕様書を作成する。 | 詳細設計検証 | 調達先から提出された設計図書の内容が仕様書の調達要求事項を満足していることを検証する。 | 設計の妥当性確認 | 設備が要求した機能を満足することを試運転、検査等により確認する。 | <p>【大阪】 記載内容の相違 ・女川実績の反映</p> <p>【女川】 記載表現の相違 【女川】 設備の相違 ・泊の「操作器」はハードウェアの操作器、及びディスプレイに表示する操作器を指す。</p> |
| プロセス | 実施内容 | | | | | | | | | | | | | | | | | | | | | | | | |
| 業務計画 | 要求事項の明確化、業務プロセス立案、業務スケジュール計画、妥当性確認方法に関する基本方針を設定するためのプロセス | | | | | | | | | | | | | | | | | | | | | | | | |
| 設計・開発 | インプット（要求事項）を検証し、基本設計、詳細設計を実施し、各ポイントにてその妥当性を検討・検証するプロセス | | | | | | | | | | | | | | | | | | | | | | | | |
| 調達 | 詳細設計検討結果等を元に供給者へ発注し、受注者の設計・検討状況の確認、設計図書承認、工場試験や起動試験により、当初の要求事項に適合していることを確認するためのプロセス | | | | | | | | | | | | | | | | | | | | | | | | |
| 運用 | 運用開始後に当該設計に問題がなかったかを評価するプロセス | | | | | | | | | | | | | | | | | | | | | | | | |
| プロセス | 実施内容 | | | | | | | | | | | | | | | | | | | | | | | | |
| 設計計画 | 設計のインプットから妥当性確認までのプロセスの全体像、設計に関する責任及び権限並びに設計に関与する関係箇所間のインタフェースを明確にする | | | | | | | | | | | | | | | | | | | | | | | | |
| 設計方針書策定 | 基本設計とし、仕様、環境条件、品質重要度、工程、設計取合い境界等の要求事項を明確にする。 | | | | | | | | | | | | | | | | | | | | | | | | |
| 仕様書策定 | 設計方針書策定段階にて明確化した設計要求事項を受け、調達仕様書を作成する。 | | | | | | | | | | | | | | | | | | | | | | | | |
| 詳細設計検証 | 調達先から提出された設計図書の内容が仕様書の調達要求事項を満足していることを検証する。 | | | | | | | | | | | | | | | | | | | | | | | | |
| 設計の妥当性確認 | 設備が要求した機能を満足することを試運転、検査等により確認する。 | | | | | | | | | | | | | | | | | | | | | | | | |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--------------|-------------|---|--|
| | | <p style="text-align: right;">別紙4</p> <p>新型中央制御盤の採用に伴う「盤面器具」等の記載表現について</p> <p>泊3号炉の中央制御盤は新型中央制御盤を採用しており、盤面器具等の記載表現を以下のとおり整理している。</p> <ul style="list-style-type: none"> ・「盤面器具」はタッチディスプレイ本体及びハードウェアの操作器・指示計等を指す。 ・「盤面表示」はソフトウェアの操作器・指示計等を指す。 ・「操作器具」タッチディスプレイ本体及びハードウェアの操作器を指す。 ・「操作器」はハードウェアの操作器及びソフトウェアの操作器を指す。  <p style="text-align: right;">新型中央制御盤のイメージ図</p>  <p style="text-align: center;">図1 盤面器具等の記載表現の整理</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>枠囲みの範囲は機密に係る事項ですので公開することはできません。</p> </div> | <p>【大飯、女川】</p> <p>設備の相違</p> <ul style="list-style-type: none"> ・泊3号炉は新型中央制御盤を採用しており、設備の相違に伴う記載表現の相違があるため、説明資料を追加した。 |

赤字：設備、運用又は体制の相違（設計方針の相違）
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 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添2）

| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--|--|---|--|
| <p style="text-align: center;">別 添</p> <p style="text-align: center;">大飯発電所3号炉及び4号炉</p> <p style="text-align: center;">技術的能力説明資料</p> <p style="text-align: center;">誤操作の防止</p> | <p style="text-align: center;">別 添</p> <p style="text-align: center;">女川原子力発電所2号炉</p> <p style="text-align: center;">運用、手順説明資料</p> <p style="text-align: center;">誤操作の防止</p> | <p style="text-align: center;">別添</p> <p style="text-align: center;">泊発電所3号炉</p> <p style="text-align: center;">運用、手順説明資料</p> <p style="text-align: center;">誤操作の防止</p> | <p style="text-align: center;">【大飯】</p> <p style="text-align: center;">記載表現の相違</p> <p style="text-align: center;">・女川及び泊の他条文との整合（記載統一）</p> |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|-------------------|--|---|-------------|
| <p>大飯発電所3/4号炉</p> | <p>女川原子力発電所2号炉</p> <p>10条 誤操作の防止</p> <p>【施設取組上の対応】 工：工設（基本設計方針、設計書類） 機：保安規定（運用、手順に係る事項、取扱文書含む） 備：建築物防備規程（防火文書含む） 施：施工程序書（含む）</p> | <p>女川と比較のため上記を再掲</p> <p>10条 誤操作の防止</p> <p>① ②</p> | <p>相違理由</p> |

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

第10条 誤操作の防止（別添2）

| 大飯発電所3/4号炉 | | | | 女川原子力発電所2号炉 | | | | 泊発電所3号炉 | | | | 相違理由 |
|---------------------|---------------------|--------------------------------|--|-----------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|--|--|---|
| 技術的能力に係る運用対策等（設計基準） | | | | 第1表 運用、手順に係る対策等（設計基準） | | | | 表1 運用、手順に係る対策等（設計基準） | | | | 【大飯】 記載表現の相違 ・女川及び泊の他条文との整合（記載統一） |
| 設置許可基準対象条文 | 対象項目 | 区分 | 運用対策等 | 設置許可基準対象条文 | 対象項目 | 区分 | 運用対策等 | 対象項目 | 区分 | 運用対策等 | | |
| 第10条 誤操作の防止 | 識別管理 施設管理 | 運用・手順 | 手順にしたがい、適切に管理を行う。 | 第10条 誤操作の防止 | 識別管理 施設管理 | 運用・手順 | ・識別管理及び施設管理に関する管理方法を定める。 | 運用・手順 | ・識別管理・施設管理に関する運用・手順 | | | |
| | | 保守管理 | — | | | | 体制 | | — | | | |
| | | 教育・訓練 | 管理手順の教育（識別管理及び施設管理）を行う。 | | | 教育・訓練 | ・識別管理・施設管理に関する教育 | | | | | |
| | 中央制御室空調装置の閉回路循環運転 | 運用・手順 | 中央制御室空調装置の閉回路循環運転においては、手順にしたがった操作を行う。 | | | 識別管理 施設管理 | 運用・手順 | ・担当グループによる保守・点検の体制 | 運用・手順 | ・閉回路循環運転に関する操作手順 | | |
| | | 保守管理 | 設備の定期点検及び故障時の補修を行う。 | | | | | 体制 | | — | | |
| | | 教育・訓練 | 中央制御室空調装置の閉回路循環運転に係る操作手順の教育を行う。 空調装置の保守管理に関する教育を行う。 | | | | 保守・点検 | ・設備の日常点検、定期点検、必要に応じた補修 | | | | |
| | 天井照明の落下防止措置 | 運用・手順 | — | | 教育・訓練 | | ・日常点検 ・定期点検 ・損傷時の補修 | 教育・訓練 | ・操作に関する教育 ・保守に関する教育 | | | |
| | | 保守管理 | 設備の定期点検及び故障時の補修を行う。 | | | | 運用・手順 | | ・運用・手順、体制及び保守・点検に関する教育 | | | |
| | | 教育・訓練 | 照明設備の保守管理に関する教育を行う。 | | | | 地震発生時の 操作中止 | | 運用・手順 | ・地震発生時は操作を中止して誤操作を防止し、プラントの安全を確保する手順を整備する。 | | |
| | 防火設備（消火器、エアロゾル消火装置） | 運用・手順 | 防火管理業務及び初期消火活動のための体制や運用方法を定める。 | | 体制 | ・運転員による運転操作 | | | | | | |
| | | 保守管理 | — | | | 保守・点検 | | — | | | | |
| | | 教育・訓練 | 防火管理に関する教育及び消防訓練を行う。 | | 教育・訓練 | | ・運用・手順及び体制に関する教育 | | | | | |
| | 運転員氏、制御盤への手摺の設置 | 運用・手順 | — | 地震発生時の操作中止 | | 運用・手順 | ・地震発生時の操作中止・安全確保に関する運用・手順 | | | | | |
| | | 保守管理 | 設備の点検及び故障時の補修（運転員機、制御盤の手摺） | | 体制 | | — | | | | | |
| | | 教育・訓練 | 補修に関する教育を行う。 | | 保守・点検 | — | | | | | | |
| | 地震発生時の操作中止 | 運用・手順 | 地震発生時は操作を中止し、安全確保に努める。 | キャビネット等の転倒防止 | 運用・手順 | ・地震発生時の操作中止・安全確保に関する教育 | | | | | | |
| | | 保守管理 | — | | | 運用・手順 | ・常設物の転倒防止に関する運用・手順 | | | | | |
| | | 教育・訓練 | 操作中止に関する教育を行う。 | | 保守・点検 | | ・設備の日常点検、定期点検、必要に応じた補修 | | | | | |
| キャビネット等の転倒防止 | 運用・手順 | キャビネット等の中央制御室内仕様の転倒防止措置を適切に行う。 | キャビネット等の転倒防止 | 運用・手順 | ・常設物の転倒防止に関する運用・手順 | | | | | | | |
| | 保守管理 | 転倒防止措置の点検を行う。 | | | 体制 | — | | | | | | |
| | 教育・訓練 | 転倒防止措置に関する教育を行う。 | | 保守・点検 | ・設備の日常点検、定期点検、必要に応じた補修 | | | | | | | |

| | |
|-------------|---------------|
| 泊発電所3号炉審査資料 | |
| 資料番号 | DB11-9 r.11.0 |
| 提出年月日 | 令和5年8月31日 |

泊発電所3号炉

設置許可基準規則等への適合状況について (設計基準対象施設等) 比較表

第11条 安全避難通路等

令和5年8月

北海道電力株式会社

枠囲みの内容は機密情報に属しますので公開できません。

赤字：設備、運用又は体制の相違（設計方針の相違）
 青字：記載箇所又は記載内容の相違（記載方針の相違）
 緑字：記載表現、設備名称の相違（実質的な相違なし）

| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--|-------------|---------|------|
| 比較結果等を取りまとめた資料 | | | |
| 1. 先行審査実績等を踏まえた泊3号炉まとめ資料の変更状況(2017年3月以降) | | | |
| 1-1) 設計方針・運用・体制などを変更し、まとめ資料を修正した箇所と理由 | | | |
| <ul style="list-style-type: none"> a. 大飯3/4号炉まとめ資料と比較した結果、変更したもの : なし b. 女川2号炉まとめ資料と比較した結果、変更したもの : なし c. 他社審査会合の指摘事項を確認した結果、変更したもの : なし d. 当社が自主的に変更したもの : なし | | | |
| 1-2) 設計方針・運用・体制を変更するものではないが、まとめ資料の記載の充実を行った箇所と理由 | | | |
| <ul style="list-style-type: none"> a. 大飯3/4号炉まとめ資料と比較した結果、変更したもの : なし b. 女川2号炉まとめ資料と比較した結果、変更したもの : あり（比較表相違理由欄参照） c. 他社審査会合の指摘事項を確認した結果、変更したもの : なし d. 当社が自主的に変更したもの : なし | | | |
| 1-3) バックフィット関連事項 | | | |
| なし | | | |

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| 大飯発電所3 / 4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--|--|--|------|
| <p>2. 女川2号まとめ資料との比較結果の概要</p> | | | |
| <p>2-1)設備、運用又は体制の相違</p> | | | |
| 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 | |
| <p>作業用照明（非常用照明、直流照明兼非常用照明及び直流照明） 非常用照明は非常用高圧母線又は非常用低圧母線、直流照明兼非常用照明は非常用低圧母線及び蓄電池（非常用）、並びに直流照明は蓄電池（非常用）に接続し、非常用ディーゼル発電機からも電力を供給できる設計とする。</p> | <p>作業用照明（運転保安灯及び無停電運転保安灯） 運転保安灯及び無停電運転保安灯は非常用低圧母線に接続し、ディーゼル発電機からも電力を供給できる設計とする。 無停電運転保安灯は専用の内蔵蓄電池を備える設計とする。</p> | <p>設備の相違 ・女川は、作業用照明のうち非常用照明は内蔵蓄電池から受電、直流照明兼非常用照明及び直流照明はプラント設備の蓄電池から給電し、全交流動力電源喪失時でも照明を確保する設計。 ・泊は、専用の内蔵蓄電池を備えた無停電運転保安灯により、全交流動力電源喪失時でも照明を確保する設計。</p> | |
| <p>所内高圧系統より、緊急時対策建屋内の照明設備へ給電する。</p> | <p>非常用低圧母線より、緊急時対策所内の照明設備へ給電する。</p> | <p>設備の相違 設備構成の相違による電源構成の相違。</p> | |
| <p>中央制御室及びその他必要な場所の非常灯及び誘導灯は、常用母線又は非常用母線から給電する。</p> | <p>中央制御室及びその他必要な場所の非常灯及び誘導灯は、非常用低圧母線から給電する。</p> | <p>設備の相違 設備構成の相違による電源構成の相違。</p> | |
| <p>メタルクラッド開閉装置の所内高圧系統から緊急時対策建屋内の照明設備へ給電する。</p> | <p>メタルクラッド開閉装置の非常用低圧母線から緊急時対策所内の照明設備へ給電する。</p> | <p>設備の相違 設備構成の相違による電源構成の相違。</p> | |
| <p>作業用照明が必要となる作業場所の抽出、現場操作の確認結果。</p> | <p>作業用照明が必要となる作業場所の抽出、現場操作の確認結果。</p> | <p>設備の相違。 炉型の違いによる必要な作業場所抽出結果の相違であるが、抽出の考え方は2.1項と同様である。 現場操作の確認結果についても炉型の相違による中央制御室での操作要否の差であるが、必要な現場操作の考え方は同様である。</p> | |
| <p>直流照明兼非常用照明又は直流照明は、全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が常設代替交流電源設備から開始される前まで（約15分間に余裕を考慮し2.4時間）においても点灯できるように蓄電池（非常用）から電力を供給できる設計とする。</p> | <p>無停電運転保安灯は、全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が常設代替交流電源設備から開始されるまで（約2.5分間を満足する4時間以上）においても点灯できるように専用の内蔵蓄電池から電力を供給できる設計とする。</p> | <p>設備の相違。 ・女川は蓄電池（非常用）は、SA兼用であるため2.4時間供給可能。 ・泊の専用の内蔵蓄電池は、カタログ値で4時間以上のものを設置。</p> | |
| <p>緊急時対策建屋内に作業用照明を確保。</p> | <p>緊急時対策所内に作業用照明を確保する。</p> | <p>設備の相違 ・女川は作業用照明のうち、非常用照明を設置。 ・泊は作業用照明のうち、無停電運転保安灯と同等のものを設置。</p> | |

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| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--|---|---|------|
| <p>2-2)記載箇所、記載内容の相違</p> | | | |
| <p>女川原子力発電所2号炉</p> <p>(記載なし。)</p> | <p>泊発電所3号炉</p> <p>作業用照明に係る保守管理に関する教育を行う。</p> <p>可搬型照明の使用に関する教育・訓練を行う。</p> | <p>相違理由</p> <p>記載内容の相違 作業用照明の補修担当者へ保守管理に関する教育を行う。</p> <p>記載内容相違 初動操作を行う運転員、緊急時対策所で作業を行う災害対策本部要員及び災害対策要員に対し、使用方法・保管場所の教育を行う。</p> | |
| <p>2-3)記載表現、設備名称の相違</p> | | | |
| <p>女川原子力発電所2号炉</p> <p>非常用ディーゼル発電機</p> <p>中央制御室外原子炉停止操作室</p> <p>計測制御電源室</p> <p>現場機器室</p> <p>事務建屋</p> <p>高圧炉心スプレイ系ディーゼル発電機室</p> <p>発電所対策本部要員</p> <p>重大事故等対応要員</p> <p>緊急時対策建屋</p> | <p>泊発電所3号炉</p> <p>ディーゼル発電機</p> <p>中央制御室外原子炉停止盤室</p> <p>安全補機開閉器室</p> <p>安全補機開閉器室、主蒸気管室、ディーゼル発電機室、中央制御室外原子炉停止盤室</p> <p>総合管理事務所</p> <p>(記載なし。)</p> <p>発電所災害対策本部要員</p> <p>発電所災害対策要員</p> <p>緊急時対策所</p> | <p>相違理由</p> <p>設備名称の相違。</p> <p>設備名称の相違。</p> <p>設備名称の相違。</p> <p>設備名称の相違。</p> <p>設備名称の相違。</p> <p>設備名称の相違。 PWR設備外。</p> <p>要員名称の相違。</p> <p>要員名称の相違。</p> <p>設備名称の相違。</p> | |

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第11条 安全避難通路等

| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|--|--|--|---|
| <p>第11条 安全避難通路等 <目次></p> <p>1. 基本方針</p> <p>1.1 要求事項の整理</p> <p>1.2 追加要求事項に対する適合性</p> <p>(1) 位置、構造及び設備</p> <p>(2) 安全設計方針</p> <p>(3) 適合性説明</p> <p>1.3 気象等</p> <p>1.4 設備等（手順等含む）</p> <p>2. 安全避難通路等</p> <p>2.1 概要</p> <p>2.2 作業用照明について</p> <p>2.3 可搬型照明について</p> <p>(別添資料1) 設計基準事故と事故対応に必要な作業場所について</p> <p>(別添資料2) 誘導灯及び非常灯等についての規格基準等について</p> <p>3. 技術的能力説明資料 (別添資料3) 安全避難通路等</p> | <p>第11条：安全避難通路等について <目次></p> <p>1. 基本方針</p> <p>1.1 要求事項の整理</p> <p>1.2 適合のための基本方針</p> <p>1.2.1 設置許可基準規則第11条第1項第1号及び第2号に対する基本方針</p> <p>1.3 追加要求事項に対する適合性</p> <p>1.4 気象等</p> <p>1.5 設備等（手順等含む）</p> <p>2. 追加要求事項に対する適合方針</p> <p>2.1 設計基準事故対策のための作業場所の抽出</p> <p>2.2 作業用照明の設計方針</p> <p>2.3 可搬型照明の設計方針</p> <p>3. 別紙</p> <p>別紙1 新規制基準適合申請に係る発電用原子炉施設追加設備の安全避難通路等について（設置許可基準規則第11条第1項第1号及び第2号への適合性）</p> <p>別紙2 現場操作の確認結果について</p> <p>4. 別添 女川原子力発電所2号炉 運用、手順説明資料 安全避難通路等</p> | <p>第11条：安全避難通路等について <目次></p> <p>1. 基本方針</p> <p>1.1 要求事項の整理</p> <p>1.2 適合のための基本方針</p> <p>1.2.1 設置許可基準規則第11条第1項第1号及び第2号に対する基本方針</p> <p>1.3 追加要求事項に対する適合性</p> <p>1.4 気象等</p> <p>1.5 設備等（手順等含む）</p> <p>2. 追加要求事項に対する適合方針</p> <p>2.1 設計基準事故対策のための作業場所の抽出</p> <p>2.2 作業用照明の設計方針</p> <p>2.3 可搬型照明の設計方針</p> <p>別紙1 新規制基準適合申請に係る発電用原子炉施設追加設備の安全避難通路等について（設置許可基準規則第11条第1項第1号及び第2号への適合性）</p> <p>別紙2 現場操作の確認結果について</p> <p>3. 運用、手順説明資料 別添1 泊発電所3号炉 運用、手順説明資料 安全避難通路等</p> | <p>【大飯】 ■記載方針の相違。 (女川に記載統一)</p> <p>【大飯】 ■記載方針の相違。 (女川に記載統一)</p> <p>【大飯】 ■記載方針の相違。 (女川に記載統一)</p> <p>【大飯】 ■記載方針の相違。 (女川に記載統一)</p> <p>【大飯、女川】 ■記載表現の相違。 DB 条文における「技術的能力」の記載を「運用、手順」に統一し、体裁を含め条文間の整合を図る適正化を行った。</p> |

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|---|-------------|---|--|
| <p style="text-align: center;">＜概要＞</p> <p>1. において、設計基準事故対処設備の設置許可基準規則、技術基準規則の追加要求事項を明確化するとともに、それら要求に対する大飯発電所3号炉及び4号炉における適合性を示す。</p> <p>2. において、設計基準事故対処設備について、追加要求事項に適合するために必要となる機能を達成するための設備又は運用等について説明する。</p> <p>3. において、追加要求事項に適合するための技術的能力（手順等）を抽出し、必要となる運用対策等を整理する。</p> | | <p style="text-align: center;">＜概要＞</p> <p>1. において、設計基準対象施設の設置許可基準規則、技術基準規則の追加要求事項を明確化するとともに、それら要求に対する泊発電所3号炉における適合性を示す。</p> <p>2. において、設計基準対象施設について、追加要求事項に適合するために必要となる機能を達成するための設備又は運用等について説明する。</p> <p>3. において、追加要求事項に適合するための運用、手順等を抽出し、必要となる運用対策等を整理する。</p> | <p>【女川】</p> <ul style="list-style-type: none"> ■記載充実。(大飯参照) <p>【大飯】</p> <ul style="list-style-type: none"> ■記載方針の相違、用語定義に基づく記載適正化 ■記載名称の相違。 <p>【大飯】</p> <ul style="list-style-type: none"> ■記載表現の相違、DB 条文における「技術的能力」の記載を「運用、手順」に統一し、体裁を含め条文間の整合を図る適正化を行った。 |

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第11条 安全避難通路等

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| <p>設計基準事故が発生した場合に用いる照明として専用の内蔵電池を備える作業用照明を設ける設計とする。</p> <p>また、現場作業の緊急性との関連において、万一、作業用照明設置箇所以外での対応が必要になった場合や、作業用照明電源の枯渇後の対応等仮設照明の準備に時間的余裕がある場合には、可搬型照明も活用する。</p> <p style="text-align: center;">【説明資料(2.1:P2-11-13~15)(2.2:P2-11-16~22)(2.3:P2-11-23,24)】</p> <p>(2) 安全設計方針</p> <p>1.1 安全設計の方針</p> <p>1.1.1.10 安全設計の基本方針</p> <p>避難通路、照明、通信連絡設備</p> <p>原子炉施設には、標識を設置した安全避難通路、避難用及び事故対策用照明、通信連絡設備を設ける設計とする。</p> <p style="text-align: center;">【説明資料(2.1:P2-11-13~15)】</p> | <p>設計基準事故が発生した場合に用いる作業用照明として、非常用照明、直流照明兼非常用照明及び直流照明を設置する設計とする。</p> <p>非常用照明は非常用高圧母線又は非常用低圧母線、直流照明兼非常用照明は非常用低圧母線及び蓄電池（非常用）、並びに直流照明は蓄電池（非常用）に接続し、非常用ディーゼル発電機からも電力を供給できる設計とする。</p> <p>また、作業場所までの移動等に必要な照明として内蔵電池を備える可搬型照明を配備する。</p> <p style="text-align: center;">【説明資料(2.11条-7~31)】</p> <p>(2) 安全設計方針</p> <p>1. 安全設計</p> <p>1.1 安全設計の方針</p> <p>1.1.1 安全設計の基本方針</p> <p>1.1.1.11 安全避難通路等</p> <p>発電用原子炉施設には、標識を設置した安全避難通路、避難用及び設計基準事故が発生した場合に用いる照明を設ける設計とする。</p> <p style="text-align: center;">【説明資料(2.11条-7~31)】</p> | <p>設計基準事故が発生した場合に用いる作業用照明として、運転保安灯及び無停電運転保安灯を設置する設計とする。</p> <p>運転保安灯及び無停電運転保安灯は非常用低圧母線に接続し、ディーゼル発電機からも電力を供給できる設計とする。 無停電運転保安灯は、専用の内蔵蓄電池を備える設計とする。</p> <p>また、作業場所までの移動等に必要な照明として内蔵電池を備える可搬型照明を配備する。</p> <p style="text-align: center;">【説明資料(2.1:P11条-8~21)】</p> <p>(2) 安全設計方針</p> <p>1. 安全設計</p> <p>1.1 安全設計の方針</p> <p>1.1.1 安全設計の基本方針</p> <p>1.1.1.11 避難通路、照明、通信連絡設備</p> <p>発電用原子炉施設には、標識を設置した安全避難通路、避難用及び事故対応用照明、通信連絡設備を設ける設計とする。</p> <p style="text-align: center;">【説明資料(2.1:P11条-8~21)】</p> | <p>■設備の相違。 (設備名：作業用照明) 泊は、専用の内蔵蓄電池を備えた無停電運転保安灯により、全交流動力電源喪失時でも照明を確保する設計としている。 女川は、作業用照明のうち非常用照明は内蔵蓄電池から受電、直流照明兼非常用照明及び直流照明はプラント設備の蓄電池から受電し、全交流電源喪失時でも照明を確保する設計としている。 ・以降、同様の相違は相違理由の記載を省略する。 ■設備名称の相違</p> <p>【大飯】 ■記載方針の相違。 (女川に記載統一)</p> <p>【女川】 ■記載範囲の相違。 女川は通信連絡設備の該当条文中に記載している。 泊は既許可記載。</p> |

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|--|---|--|---|
| <p>(3) 適合性説明 (安全避難通路等)</p> <p>第十一条 発電用原子炉施設には、次に掲げる設備を設けなければならない。</p> <p>一 その位置を明確かつ恒久的に表示することにより容易に識別できる安全避難通路</p> <p>二 照明用の電源が喪失した場合においても機能を損なわない避難用の照明</p> <p>三 設計基準事故が発生した場合に用いる照明（前号の避難用の照明を除く。）及びその専用の電源</p> <p>適合のための設計方針</p> <p>第1項第1号について</p> <p>原子炉施設の建屋内には数箇所避難階段を設置し、それらに通じる避難通路を設ける。また、中央制御室、避難通路等には必要に応じて、標識並びに非常灯及び誘導灯を設け、その位置を明確かつ恒久的に表示することにより容易に識別できる設計とする。</p> <p>第1項第2号について</p> <p>非常灯及び誘導灯は、灯具に蓄電池を内蔵し、照明用の電源が喪失した場合においても機能を損なわない設計とする。</p> <p>第1項第3号について</p> <p>設計基準事故が発生した場合に用いる照明として、避難用の照明とは別に作業用照明を設置する設計とする。</p> | <p>(3) 適合性説明</p> <p>(安全避難通路等)</p> <p>第十一条 発電用原子炉施設には、次に掲げる設備を設けなければならない。</p> <p>一 その位置を明確かつ恒久的に表示することにより容易に識別できる安全避難通路</p> <p>二 照明用の電源が喪失した場合においても機能を損なわない避難用の照明</p> <p>三 設計基準事故が発生した場合に用いる照明（前号の避難用の照明を除く。）及びその専用の電源</p> <p>適合のための設計方針</p> <p>第1項第1号について</p> <p>発電用原子炉施設の建屋内には避難通路を設ける。また、避難通路には必要に応じて、標識並びに非常灯及び誘導灯を設け、その位置を明確かつ恒久的に表示することにより容易に識別できる設計とする。</p> <p>第1項第2号について</p> <p>非常灯及び誘導灯は、非常用ディーゼル発電機又は灯具に内蔵した蓄電池により、照明用の電源が喪失した場合においても機能を損なわない設計とする。</p> <p>第1項第3号について</p> <p>設計基準事故が発生した場合に用いる作業用照明として、避難用の照明とは別に、非常用照明、直流照明兼非常用照明及び直流照明を設置する。</p> <p>また、作業場所までの移動等に必要照明として、内蔵電池を備える可搬型照明を配備する。</p> | <p>(3) 適合性説明</p> <p>(安全避難通路等)</p> <p>第十一条 発電用原子炉施設には、次に掲げる設備を設けなければならない。</p> <p>一 その位置を明確かつ恒久的に表示することにより容易に識別できる安全避難通路</p> <p>二 照明用の電源が喪失した場合においても機能を損なわない避難用の照明</p> <p>三 設計基準事故が発生した場合に用いる照明（前号の避難用の照明を除く。）及びその専用の電源</p> <p>適合のための設計方針</p> <p>第1項第1号について</p> <p>発電用原子炉施設の建屋内には避難通路を設ける。また、避難通路には必要に応じて、標識並びに非常灯及び誘導灯を設け、その位置を明確かつ恒久的に表示することにより容易に識別できる設計とする。</p> <p>第1項第2号について</p> <p>非常灯及び誘導灯は、ディーゼル発電機又は灯具に内蔵した蓄電池により、照明用の電源が喪失した場合においても機能を損なわない設計とする。</p> <p>第1項第3号について</p> <p>設計基準事故が発生した場合に用いる作業用照明として、避難用の照明とは別に、運転保安灯及び無停電運転保安灯を設置する。</p> <p>また、作業場所までの移動等に必要照明として、内蔵電池を備える可搬型照明を配備する。</p> | <p>相違理由</p> <p>■設備名称の相違。</p> <p>■設備の相違。 (設備名：作業用照明)</p> <p>【大飯】 ■記載内容の相違。 (女川実績の反映)</p> |

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| <p>作業用照明は、外部電源喪失時及び全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が交流動力電源から開始されるまでの間においても点灯できるよう、専用の内蔵電池を備える。この作業用照明は、プラント停止・冷却操作、監視等の操作が必要となる中央制御室、中央制御室退避時に必要な操作を行う中央制御室外原子炉停止盤、設計基準事故が発生した場合に現場操作の可能性のある主蒸気・主給水管室、全交流動力電源喪失発生時に復旧対応が必要となる安全補機開閉器室等及びこれらへのアクセスルート（以下「中央制御室、主蒸気・主給水管室及びアクセスルート等」という。）に設置することにより、昼夜、場所を問わず作業が可能な設計とする。</p> <p>【説明資料（2.1:P2-11-13～15）（2.2:P2-11-16～22）】</p> <p>直流照明兼非常用照明又は直流照明は、蓄電池（非常用）に接続し、非常用ディーゼル発電機からも電力を供給する設計とするほか、全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が常設代替交流電源設備から開始されるまでの間、点灯可能な設計とする。</p> <p>作業用照明は、設計基準事故が発生した場合に必要な操作が行えるように非常灯と同等以上の照度を有する設計とする。</p> <p>可搬型照明は、内蔵電池にて点灯可能な設計とし、全交流動力電源喪失時における緊急時対策所内の可搬型照明保管場所への移動及び緊急時対策所の作業に必要な照度を確保できる設計とする。</p> <p>可搬型照明は、作業開始前に準備可能な場所（緊急時対策所、事務建屋）に配備する。</p> <p>設計基準事故に対応するための操作が必要な場所は、作業用照明が設置されており作業が可能である。なお、現場作業の緊急性との関連において、仮設照明の準備に時間的猶予がある場合の対応を考慮し、初動操作に対応する運転員が常時滞在している中央制御室等に懐中電灯等の可搬型照明を配備する。</p> <p>【説明資料（2.1:P2-11-13～15）（2.3:P2-11-23,24）】</p> <p>外部電源喪失時、ディーゼル発電機が長時間連続運転を行う場合において、夜間におけるタンクローリーによるディーゼル発電機燃料の輸送を実施する場合、ヘッドライト等の可搬型照明、タンクローリーの前照灯等を使用する。これらの可搬型照明は、発電所構内の所定の場所に保管し、輸送開始が必要となる時間（3日以内）までに十分準備できるものとする。</p> <p>【説明資料（2.1:P2-11-13～15）（2.3:P2-11-23,24）】</p> <p>1.3 気象等 該当なし</p> | <p>非常用照明は、発電用原子炉の停止、停止後の冷却及び監視等の操作が必要となる中央制御室及び中央制御室で操作が困難な場合に必要となる操作を行う中央制御室外原子炉停止操作室等に設置する。</p> <p>また、外部電源喪失時にも必要な照明が確保できるよう、非常用高圧母線又は非常用低圧母線に接続し、非常用ディーゼル発電機からも電力を供給する設計とする。</p> <p>直流照明兼非常用照明又は直流照明は、全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が常設代替交流電源設備から開始される前までに必要な操作を実施する中央制御室及び計測制御電源室等に設置する。</p> <p>直流照明兼非常用照明及び直流照明は、蓄電池（非常用）に接続し、非常用ディーゼル発電機からも電力を供給する設計とするほか、全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が常設代替交流電源設備から開始されるまでの間、点灯可能な設計とする。</p> <p>作業用照明は、設計基準事故が発生した場合に必要な操作が行えるように非常灯と同等以上の照度を有する設計とする。</p> <p>可搬型照明は、内蔵電池にて点灯可能な設計とし、全交流動力電源喪失時における緊急時対策所内の可搬型照明保管場所への移動及び緊急時対策所の作業に必要な照度を確保できる設計とする。</p> <p>可搬型照明は、作業開始前に準備可能な場所（緊急時対策所、事務建屋）に配備する。</p> <p>上記以外の設計基準事故に対応するための操作が必要な場所には、作業用照明を設置することにより作業が可能であるが、万一、作業用照明設置箇所以外での対応が必要になった場合には、初動操作に対応する運転員が常時滞在している中央制御室に配備する可搬型照明（内蔵電池にて点灯可能な懐中電灯等）を活用する。</p> <p>【説明資料（2.11条-7～31）】</p> <p>1.4 気象等 該当なし</p> | <p>運転保安灯及び無停電運転保安灯は、発電用原子炉の停止、停止後の冷却及び監視等の操作が必要となる中央制御室及び中央制御室で操作が困難な場合に必要となる操作を行う中央制御室外原子炉停止盤室等に設置する。</p> <p>また、外部電源喪失時にも必要な照明を確保できるよう、非常用低圧母線に接続し、ディーゼル発電機からも電力を供給する設計とする。</p> <p>無停電運転保安灯は、全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が常設代替交流電源設備から開始される前までに必要な操作を実施する中央制御室及び安全補機開閉器室等に設置する。</p> <p>無停電運転保安灯は、専用の内蔵蓄電池を備える設計とし、ディーゼル発電機からも電力を供給する設計とするほか、全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が常設代替交流電源設備から開始されるまでの間、点灯可能な設計とする。</p> <p>【説明資料（2.1:P11条-8～10）（2.2:P11条-11～19）】</p> <p>作業用照明は、設計基準事故が発生した場合に必要な操作が行えるように非常灯と同等以上の照度を有する設計とする。</p> <p>可搬型照明は、内蔵電池にて点灯可能な設計とし、全交流動力電源喪失時における緊急時対策所内の可搬型照明保管場所への移動及び緊急時対策所の作業に必要な照度を確保できる設計とする。</p> <p>可搬型照明は、作業開始前に準備可能な場所（緊急時対策所指揮所、総合管理事務所）に配備する。</p> <p>上記以外の設計基準事故に対応するための操作が必要な場所には、作業用照明を設置することにより作業が可能であるが、万一、作業用照明設置箇所以外での対応が必要になった場合には、初動操作に対応する運転員が常時滞在している中央制御室に配備する可搬型照明（内蔵電池にて点灯可能な懐中電灯等）を活用する。</p> <p>【説明資料（2.1:P11条-8～21）】</p> <p>1.4 気象等 該当なし</p> | <p>相違理由</p> <p>■設備の相違。 （設備名：作業用照明）</p> <p>■設備名称の相違。</p> <p>■設備名称の相違。</p> <p>■設備の相違。 （設備名：作業用照明）</p> <p>■設備名称の相違。</p> <p>■設備名称の相違。</p> <p>■設備の相違。 （設備名：作業用照明）</p> <p>■設備名称の相違。</p> <p>【大飯】 ■記載内容の相違。</p> <p>【大飯】 ■記載内容の相違。 （女川実績の反映）</p> <p>■設備名称の相違。</p> <p>【大飯】 ■記載内容の相違。 （女川実績の反映）</p> <p>■設備の相違。 大飯はディーゼル発電機の燃料を、燃料油貯蔵タンクと重油タンクに分けて貯蔵し、重油タンクから燃料貯蔵タンクへ燃料輸送する際に可搬型照明を使用。女川と泊には同様の設備はない。</p> <p>【大飯】 ■項目番号の相違。</p> |

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第11条 安全避難通路等

| 大飯発電所3/4号炉 | 女川原子力発電所2号炉 | 泊発電所3号炉 | 相違理由 |
|---|---|--|---|
| <p>1.4 設備等（手順等含む）</p> <p>10. その他発電用原子炉の附属施設</p> <p>10.11 安全避難通路等</p> <p>10.11.1 概要</p> <p>照明用電源は、所内低圧系より、原子炉格納容器（アニュラス部を含む。）、原子炉補助建屋内、タービン建屋内及び水中照明設備（以下「建屋内等の照明設備」という。）へ給電する。</p> <p>中央制御室及び避難通路等への非常用照明は、非常用母線から給電する。さらに、避難通路を確保するために蓄電池内蔵型の非常灯及び誘導灯を設ける。</p> <p>【説明資料（2.1:P2-11-13～15）（2.2:P2-11-16～22）】</p> <p>設計基準事故が発生した場合に用いる照明として、避難用の照明とは別に作業用照明を中央制御室、主蒸気・主給水管室及びアクセスルート等に設置する。作業用照明は、外部電源喪失及び全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が交流動力電源から開始されるまでの間においても、中央制御室、主蒸気・主給水管室及びアクセスルート等は専用の内蔵電池からの給電により点灯を継続し、昼夜、場所を問わず作業が可能な設計とする。作業用照明の配置場所の概要については第10.11.1 図及び第10.11.2 図に示す。</p> <p>【説明資料（2.1:P2-11-13～15）（2.2:P2-11-16～22）】</p> <p>また、その他現場作業が必要となった場合を考慮し、可搬型照明を配備する。</p> <p>【説明資料（2.3:P2-11-23, 24）】</p> | <p>1.5 設備等（手順等含む）</p> <p>10. その他発電用原子炉の附属施設</p> <p>10.11 安全避難通路等</p> <p>10.11.1 概要</p> <p>照明用電源は、所内低圧系統より、原子炉建屋内、タービン建屋内及び制御建屋内の照明設備へ給電する。</p> <p>また、所内高圧系統より、緊急時対策建屋内の照明設備へ給電する。</p> <p>中央制御室及びその他必要な場所の非常灯及び誘導灯は、常用母線又は非常用母線から給電するとともに、照明用の電源が喪失した場合には非常用ディーゼル発電機又は内蔵蓄電池から給電する。</p> <p>【説明資料（2.2:11 条-11～12）】</p> <p>設計基準事故が発生した場合に用いる作業用照明として、非常用照明、直流照明兼非常用照明及び直流照明を設置する。</p> <p>非常用照明は非常用高圧母線又は非常用低圧母線、直流照明兼非常用照明は非常用低圧母線及び蓄電池（非常用）並びに直流照明は蓄電池（非常用）に接続し、非常用ディーゼル発電機からも電力を供給できる設計とする。</p> <p>【説明資料（2.2:11 条-9～29）】</p> <p>また、作業場所までの移動等に必要な照明として内蔵電池を備える可搬型照明を配備する。</p> <p>上記以外で、その他現場作業が必要となった場合を考慮し、内蔵電池を備える可搬型照明を配備する。</p> <p>【説明資料（2.2:11 条-30～31）】</p> | <p>1.5 設備等（手順等含む）</p> <p>10. その他発電用原子炉の附属施設</p> <p>10.11 安全避難通路等</p> <p>10.11.1 概要</p> <p>照明用電源は、常用低圧母線より、原子炉建屋内（原子炉格納施設、燃料取扱棟を含む。）、原子炉補助建屋内、タービン建屋内及びディーゼル発電機建屋内の照明設備へ給電する。</p> <p>また、非常用低圧母線より、緊急時対策所内の照明設備へ給電する。</p> <p>中央制御室及びその他必要な場所の非常灯及び誘導灯は、非常用低圧母線から給電するとともに、照明用の電源が喪失した場合にはディーゼル発電機又は内蔵蓄電池から給電する。</p> <p>【説明資料（2.2:P11 条-11～19）】</p> <p>設計基準事故が発生した場合に用いる作業用照明として、運転保安灯及び無停電運転保安灯を設置する。</p> <p>運転保安灯及び無停電運転保安灯は非常用低圧母線に接続し、ディーゼル発電機からも電力を給電できる設計とするとともに、無停電運転保安灯は専用の内蔵蓄電池を備える設計とする。</p> <p>【説明資料（2.2:P11 条 11～19）】</p> <p>また、作業場所までの移動等に必要な照明として内蔵電池を備える可搬型照明を配備する。</p> <p>上記以外で、その他現場作業が必要となった場合を考慮し、内蔵電池を備える可搬型照明を配備する。</p> <p>【説明資料（2.3:P11 条-20, 21）】</p> | <p>【大飯】 ■項目番号の相違。</p> <p>【女川】 ■設備名称の相違。</p> <p>【大飯】 ■記載方針の相違。 （女川の記載に統一）</p> <p>【女川】 ■設備の相違。 設備構成の相違による電源構成の相違。</p> <p>【女川】 ■設備名称の相違。</p> <p>【大飯】 ■記載方針の相違。 （女川に記載統一）</p> <p>【女川】 ■設備の相違。 設備構成の相違による電源構成の相違。</p> <p>【女川】 ■設備名称の相違。</p> <p>【大飯】 ■記載方針の相違。 （女川に記載統一）</p> <p>【女川】 ■設備の相違。 （設備名：作業用照明） ■設備名称の相違。</p> <p>【大飯】 ■記載方針の相違。 （女川に記載統一）</p> |

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| <p>10.11.2 設計方針 安全避難通路は、その位置を明確かつ恒久的に表示することにより、容易に識別できるように避難用照明を設置する。また、避難用照明は、電源が喪失した場合においても機能を損なうおそれがないようにする。さらに、設計基準事故が発生した場合に用いる照明（避難用の照明を除く。）及びその専用の電源を設ける。 【説明資料（2.1:P2-11-13～15）】</p> <p>10.11.3 主要設備 10.11.3.1 照明設備 照明用電源は、パワーセンタ、原子炉コントロールセンタ、タービンコントロールセンタ及び所内コントロールセンタから変圧器を通して、建屋内等の照明設備へ給電する。</p> <p>中央制御室、避難通路等への非常用照明は、非常用母線から給電する。さらに、居室、避難通路に設置される非常灯及び誘導灯は、全交流動力電源喪失時に内蔵の蓄電池から給電する。</p> <p>設計基準事故が発生した場合に用いる照明として、避難用の照明とは別に作業用照明を中央制御室、主蒸気・主給水管室及びアクセスルート等に設置する。 【説明資料（2.1:P2-11-13～15）（2.2:P2-11-16～22）】</p> <p>作業用照明のうち、中央制御室は非常用電源から、主蒸気・主給水管室及びアクセスルート等は非常用電源あるいは常用電源のいずれかより受電する。また、外部電源喪失時及び全交流動力電源喪失時から重大事故等に対処するために必要な電力の供給が交流動力電源から開始されるまでの間においても、中央制御室、主蒸気・主給水管室及びアクセスルート等は専用の内蔵電池からの給電により30分間以上点灯を継続する。</p> | <p>10.11.2 設計方針 安全避難通路には、その位置を明確かつ恒久的に表示することにより、容易に識別できるように避難用照明を設置する。また、避難用照明は、照明用の電源が喪失した場合においても機能を損なうおそれがないようにする。さらに、設計基準事故が発生した場合に用いる照明（避難用の照明を除く。）及びその専用の電源を設ける。 【説明資料（2.2:11条-11～12）（別紙1）】</p> <p>10.11.3 主要設備 10.11.3.1 照明設備 照明用電源は、モータコントロールセンタ等の所内低圧系統から原子炉建屋内、タービン建屋内及び制御建屋内の照明設備へ給電する。</p> <p>また、メタルクラッド開閉装置の所内高圧系統から緊急時対策建屋内の照明設備へ給電する。</p> <p>中央制御室及びその他必要な場所の非常灯及び誘導灯は、常用母線又は非常用母線から給電するとともに、照明用の電源が喪失した場合には非常用ディーゼル発電機又は内蔵蓄電池から給電する。 【説明資料（2.2:11条-11～12）】</p> <p>設計基準事故が発生した場合に用いる照明として、避難用の照明とは別に非常用照明、直流照明兼非常用照明及び直流照明を設置する。 【説明資料（2.2:11条-9～29）】</p> <p>非常用照明は、外部電源喪失時にも必要な照明を確保できるように、非常用母線に接続し、非常用ディーゼル発電機からも電力を供給できる設計とする。</p> | <p>10.11.2 設計方針 安全避難通路には、その位置を明確かつ恒久的に表示することにより、容易に識別できるように避難用照明を設置する。また、避難用照明は、照明用の電源が喪失した場合においても機能を損なうおそれがないようにする。さらに、設計基準事故が発生した場合に用いる照明（避難用の照明を除く。）及びその専用の電源を設ける。 【説明資料（2.2:P11条-11～19）（別紙1）】</p> <p>10.11.3 主要設備 10.11.3.1 照明設備 照明用電源は、原子炉コントロールセンタ、タービンコントロールセンタ及び定検用コントロールセンタから原子炉建屋内、タービン建屋内及び原子炉補助建屋内、ディーゼル発電機建屋内の照明設備へ給電する。</p> <p>また、メタルクラッド開閉装置の非常用低圧母線から緊急時対策所内の照明設備へ給電する。</p> <p>中央制御室及びその他必要な場所の非常灯及び誘導灯は、非常用低圧母線から給電するとともに、照明用の電源が喪失した場合にはディーゼル発電機又は内蔵蓄電池から給電する。 【説明資料（2.2:P11条-11～19）】</p> <p>設計基準事故が発生した場合に用いる照明として、避難用の照明とは別に運転保安灯及び無停電運転保安灯を設置する。 【説明資料（2.2:P11条-11～19）】</p> <p>運転保安灯及び無停電運転保安灯は、外部電源喪失時にも必要な照明を確保できるように、非常用低圧母線に接続し、ディーゼル発電機からも電力を供給できる設計とする。</p> | <p>■設備名称の相違。</p> <p>【大飯】 ■記載方針の相違。 （女川に記載統一） 【女川】 ■設備の相違。 設備構成の相違による電源構成の相違。 【女川】 ■設備名称の相違。</p> <p>【大飯】 ■記載方針の相違。 （女川に記載統一） 【女川】 ■設備の相違。 設備構成の相違による電源構成の相違。 ■設備名称の相違</p> <p>【大飯】 ■記載方針の相違。 （女川に記載統一） 【女川】 ■設備の相違。 （設備名：作業用照明）</p> <p>【大飯】 ■記載方針の相違。 （女川に記載統一） 【女川】 ■設備の相違。 （設備名：作業用照明） ■設備名称の相違。</p> |