Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-IFI-53

Equipment Class: (18) Instruments on Racks

Equipment Description: BORON INJECTION TO REACTOR COOLANT LOOP #3 FLOW

Project: DC Cook 1 SWEL

Location (Bldg, Elev, Room/Area): CON1, 598.00 ft, 56

#### Manufacturer/Model:

#### Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

#### Anchorage

- 1. Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)?
- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Yes
- 4. Is the anchorage free of visible cracks in the concrete near the anchors? Yes
- 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

#### Interaction Effects

Yes

| Colomia Malkala            | un Chasklist (SMC)  |   |                           | Status: Y   | NU         |
|----------------------------|---|---|---------------------------|---|------------|
| Seismic Walkdo             | wn Checklist (SWC)  |   |                           |   |            |
| Equip                      | ment ID No.: 1-IFI-53   |   |                           |   |            |
| Equi                       | oment Class: <u>(18) Inst</u>   | ruments on Racks                              |                           |   |            |
| Equipment                  | Description: BORON  | INJECTION TO REACT                            | OR COOLANT LOC            | DP #3 FLOW  | 199<br>199 |
| 7. Are soft t              | argets free from impact   | by nearby equipment or                        | structures?               |   | Yes        |
|                            |   |   |                           |   |            |
|                            |   |   |                           |   |            |
| 0 0                        |   |   | e and lighting and        |   | Vee        |
| 8. Are overr<br>masonry    | block walls not likely to   | collapse onto the equipm                      | s and lighting, and nent? |   | res        |
|                            |   |   |                           |   |            |
|                            | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |   |                           |   |            |
| 9. Do attach               | ed lines have adequate  | flexibility to avoid dama                     | ge?                       |   | Yes        |
|                            |   |   |                           |   |            |
|                            |   |   |                           |   |            |
|                            |   |   |                           |   |            |
| 10. Based or<br>potentiall | the above seismic inter<br>adverse seismic intera   | raction evaluations, is eq<br>action effects? | uipment free of           |   | Yes        |
|                            |   |   |                           |   |            |
|                            |   |   |                           |   |            |
| Other Adverse 0            | onditions   |   |                           | in the second |            |
| 11. Have you               | looked for and found n  | o adverse seismic condit                      | tions that could          |   | Yes        |
| auverseij                  | anect the salety function   | ons of the equipment?                         |                           |   |            |
|                            |   |   |                           |   |            |
|                            | i and an and a second and a se |   |                           |   |            |
| <u>Comments</u>            |   |   |                           |   |            |
|                            | N H Y C   | <pre></pre>                                   |                           |   |            |
| Evaluated by:              | Jonary JJ. Chrod  | George G Thomas                               | s Dat                     | e: 10/18/12   |            |
|                            |   |   |                           |   |            |
|                            | aun.  | Noda Stoova                                   |                           | 10/19/12  |            |
|                            |   | Neua Silleva                                  |                           | 10/10/12  |            |
|                            |   |   |                           |   |            |
| Photos                     | n er en ferset av gjerner og som er   |   |                           |   | ti i       |
|                            |   |   |                           |   |            |

Status: Y N U

## Seismic Walkdown Checklist (SWC)

| Equipment ID No.:      | 1-IFI-53  |  |
|------------------------|---|--|
| Equipment Class:       | (18) Instruments on Racks                       |  |
| Equipment Description: | BORON INJECTION TO REACTOR COOLANT LOOP #3 FLOW |  |
|                        |   |  |





P9110370

P9110369



|   | Status: V N II  |
|---|---|
| Seismic Walkdown Checklist (SWC)  |   |
| Equipment ID No.: 1-IMO-222   |   |
| Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves  |   |
| Equipment Description: WEST CONTAINMENT SPRAY PUMP DISCHARGE T  | ·O  |
| <br>Project: DC Cook 1 SWEL   |   |
| Location (Bldg, Elev, Room/Area): AB1, 573.00 ft, 52  |   |
| Manufacturer/Model:   |   |
| Instructions for Completing Checklist   |   |
| This checklist may be used to document the results of the Seismic Walkdown of an item SWEL. The space below each of the following questions may be used to record the res findings. Additional space is provided at the end of this checklist for documenting other | of equipment on the<br>ults of judgments and<br>comments. |
| Anchorage   |   |
| <ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50%<br/>of SWEL items requiring such verification)?</li> </ol>  | No  |
|   |   |
|   |   |
| 2. Is the anchorage free of bent, broken, missing or loose hardware?  | Not Applicable  |
|   |   |
|   |   |
| 3. Is the anchorage free of corrosion that is more than mild surface oxidation?   | Not Applicable  |
|   |   |
|   |   |
| 4. Is the anchorage free of visible cracks in the concrete near the anchors?  | Not Applicable  |
|   |   |
|   |   |
| 5. Is the anchorage configuration consistent with plant documentation? (Note:<br>This question only applies if the item is one of the 50% for which an anchorage  | Not Applicable  |
| configuration vehication is required.)  |   |
|   |   |
|   |   |
| 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?   | Yes   |
|   |   |
|   |   |

Interaction Effects

C-203

|  |  |  |  |                         |                  | · · · · · · · · · · · · · · · · · · · |            |
|--|--|--|--|-------------------------|------------------|---------------------------------------|------------|
| Seismic Walko  | lown Checklist (SW   | /C)  |  |                         |                  |                                       |            |
| Equ  | ipment ID No.: 1-II  | MO-222   | 2000 j.  |                         | ,                |                                       |            |
| Eq   | uipment Class: (8)   | Motor-Operated a   | and Solenoid-Opera   | ated Valves             |                  |                                       |            |
| Equipme  | ent Description: WE  | ST CONTAINME   | NT SPRAY PUMP  | DISCHARGE               | то               |                                       |            |
| 7. Are sof   | t targets free from im   | npact by nearby e  | quipment or structu  | res?                    |                  | Y                                     | 'es        |
|  |  |  |  |                         |                  |                                       |            |
|  |  |  |  |                         |                  |                                       |            |
|  |  |  |  |                         |                  |                                       |            |
| 8. Are ove   | erhead equipment, di   | istribution systems  | s, ceiling tiles and l   | ighting, and            |                  | Y                                     | 'es        |
| Block  | wall - OK per 12-402   | 25. Wall W-1   | o the equipment?   |                         |                  |                                       |            |
|  | ·····  | ,  |  |                         |                  |                                       |            |
|  |  |  |  |                         |                  |                                       |            |
| 9 Do atta  | ched lines have ade  | quate flexibility to   | avoid damage?  |                         |                  | Y                                     | 'es        |
| 0. D0 0110   |  |  |  |                         |                  |                                       |            |
| 0. D0 010  |  |  |  |                         |                  |                                       |            |
|  |  |  |  |                         |                  |                                       |            |
|  |  |  |  |                         |                  |                                       |            |
| 10. Based  | on the above seismic<br>ally adverse seismic   | c interaction evalu  | iations, is equipme  | nt free of              |                  | Y                                     | 'es        |
| 10. Based potentia   | on the above seismic<br>ally adverse seismic   | c interaction evalu<br>interaction effects   | iations, is equipmei<br>s?   | nt free of              |                  | Y                                     | ′es        |
| 10. Based potentia   | on the above seismic<br>ally adverse seismic   | c interaction evalu<br>interaction effects   | iations, is equipmens?   | nt free of              |                  | Y                                     | ′es        |
| 10. Based potentia   | on the above seismic<br>ally adverse seismic   | c interaction evalu<br>interaction effects   | iations, is equipmei<br>s?   | nt free of              |                  | Υ                                     | ′es        |
| 10. Based<br>potentia<br>Other Adverse<br>11. Have y<br>adverse  | on the above seismic<br>ally adverse seismic<br><u>Conditions</u><br>ou looked for and for<br>ely affect the safety f        | c interaction evalu<br>interaction effects<br>und no adverse se<br>unctions of the eq          | ations, is equipments?<br>eismic conditions th<br>quipment?                | nt free of              |                  | Y                                     | ′es        |
| 10. Based<br>potentia<br>Other Adverse<br>11. Have y<br>adverse  | on the above seismic<br>ally adverse seismic<br><u>Conditions</u><br>ou looked for and fou<br>ely affect the safety f        | c interaction evalu<br>interaction effects<br>und no adverse se<br>functions of the eq         | iations, is equipments?<br>eismic conditions th<br>quipment?               | nt free of              |                  | Y                                     | ′es        |
| 10. Based<br>potentia<br>Other Adverse<br>11. Have y<br>adverse  | on the above seismic<br>ally adverse seismic<br><u>Conditions</u><br>ou looked for and for<br>ely affect the safety f        | c interaction evalu<br>interaction effects<br>und no adverse se<br>unctions of the eq          | ations, is equipments?   | nt free of<br>at could  |                  | Y                                     | ′es        |
| 10. Based<br>potentia<br>0ther Adverse<br>11. Have y<br>adverse<br><u>Comments</u>                         | on the above seismic<br>ally adverse seismic<br><u><b>Conditions</b></u><br>ou looked for and fou<br>ely affect the safety f | c interaction evalu<br>interaction effects<br>und no adverse se<br>unctions of the eq          | ations, is equipments?   | nt free of              |                  | Y                                     | ′es        |
| 10. Based<br>potentia<br>Other Adverse<br>11. Have y<br>adverse<br>Comments<br>Evaluated by:               | on the above seismic<br>ally adverse seismic<br><u>Conditions</u><br>ou looked for and fou<br>ely affect the safety f        | c interaction evalu<br>interaction effects<br>und no adverse se<br>unctions of the eq          | ations, is equipments?<br>eismic conditions th<br>quipment?<br>ge G Thomas | nt free of<br>at could  | :: <u>10/18/</u> | Y<br>Y<br>12                          | ′es        |
| 10. Based<br>potentia<br><u>Other Adverse</u><br>11. Have y<br>adverse<br><u>Comments</u><br>Evaluated by: | on the above seismic<br>ally adverse seismic<br>conditions<br>ou looked for and fou<br>ely affect the safety f               | c interaction evalu<br>interaction effects<br>und no adverse se<br>functions of the eq         | ations, is equipments?   | nt free of<br>hat could | : 10/18/         | Y<br>Y<br>12                          | ′es        |
| 10. Based<br>potentia<br>Other Adverse<br>11. Have y<br>adverse<br>Comments<br>Evaluated by:               | on the above seismic<br>ally adverse seismic<br><u>Conditions</u><br>ou looked for and fou<br>ely affect the safety f        | c interaction evalu<br>interaction effects<br>und no adverse se<br>unctions of the eq<br>Georg | ations, is equipments?<br>elismic conditions th<br>quipment?               | nt free of<br>nat could | :: <u>10/18/</u> | Y<br>Y<br>12                          | ′es<br>′es |

**Photos** 

Status: Y N U

## Seismic Walkdown Checklist (SWC)

| Equipment ID No.:      | 1-IMO-222                                       |
|------------------------|---|
| Equipment Class:       | (8) Motor-Operated and Solenoid-Operated Valves |
| Equipment Description: | WEST CONTAINMENT SPRAY PUMP DISCHARGE TO        |







|  | Status: Y N U                            |
|--|--|
| Seismic Walkdown Checklist (SWC)   |  |
|  |  |
| Equipment ID No.: 1-IMO-225  |  |
| Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves   | ji)<br><u> </u>                          |
| Equipment Description: REFUELING WATER STORAGE TANK TO WEST CONTA  | AINMENT                                  |
| Project: DC Cook 1 SWEL  |  |
| Location (Bldg, Elev, Room/Area): AB1, 573.00 ft, 52   |  |
| Manufacturer/Model:  |  |
| Instructions for Completing Checklist  |  |
| This checklist may be used to document the results of the Seismic Walkdown of an item of e SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other com | equipment on the of judgments and nents. |
| Anchorage  |  |
| <ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50%<br/>of SWEL items requiring such verification)?</li> </ol>   | No                                       |
|  |  |
|  |  |
| 2. Is the anchorage free of bent, broken, missing or loose hardware?   | Not Applicable                           |
|  |  |
|  |  |
|  |  |
| 3. Is the anchorage free of corrosion that is more than mild surface oxidation?  | Not Applicable                           |
|  |  |
|  |  |
|  |  |
| 4. Is the anchorage free of visible cracks in the concrete near the anchors?   | Not Applicable                           |
|  |  |
|  |  |
| <ol> <li>Is the anchorage configuration consistent with plant documentation? (Note:<br/>This question only applies if the item is one of the 50% for which an anchorage<br/>configuration verification is required.)</li> </ol>  | Not Applicable                           |
|  |  |
|  |  |
| 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?  | Yes                                      |
|  |  |
|  |  |

Interaction Effects

| Seismic Walkdo                           | wn Checklist (SW  | /C)   |   | Status         | X N U                                      |
|--|---|---|---|----------------|--|
| Equir                                    | oment ID No : 1-II  | MO-225  |   |                |  |
| Equi                                     | pment Class: (8)  | Motor-Operated and So   | lenoid-Operated Valv                      | 25             |  |
| Equipmon                                 | t Description: PE   |   |   |                | т  |
| 7. Are soft 1                            | targets free from in  | pact by nearby equipme  | ent or structures?                        | STCONTAINMEN   | Yes  |
|  |   |   |   |                |  |
|  |   |   |   |                |  |
|  |   |   |   |                |  |
| 8. Are over<br>masonry<br><i>Block</i> w | head equipment, di<br>block walls not like<br><i>all - OK per 12-40</i> | istribution systems, ceilir<br>ely to collapse onto the e<br>2 <i>5, Wall W-1</i> | ng tiles and lighting, a<br>quipment?     | nd             | Yes  |
|  |   |   |   |                |  |
| 9. Do attacl                             | ned lines have ade  | quate flexibility to avoid  | damage?                                   |                | Yes  |
|  |   |   |   |                |  |
|  |   |   |   |                |  |
|  |   |   |   |                |  |
| 10. Based or                             | <ol> <li>the above seismic<br/>ly adverse seismic</li> </ol>            | c interaction evaluations<br>interaction effects?                                 | , is equipment free of                    |                | Yes  |
| potorniai                                | y davelee colonine  |   |   |                |  |
|  |   |   |   |                |  |
|  |   |   |   |                |  |
| Other Adverse (                          | Conditions  |   |   |                |  |
| 11. Have you adversel                    | J looked for and for<br>v affect the safety f                           | und no adverse seismic<br>functions of the equipme                                | conditions that could nt?                 |                | Yes  |
|  | ,, -  |   |   |                |  |
|  |   |   |   |                |  |
|  |   |   |   |                |  |
| <u>Comments</u>                          |   |   |   |                |  |
| Evaluated by:                            | Howy H. ?   | George G Th   | nomas                                     | Date: 10/18/12 |  |
|  | (A)   |   |   |                |  |
|  | aun   | Y-<br>Neda Stoeva   |   | 10/18/12       |  |
|  | en in an                            |   | an 'S |                | nga minga pananan di Kabapanang pana.<br>K |
| 80 mg<br>20 fang                         |   | inn ifi<br>Iani i 200   |   |                |  |
| Photos                                   |   |   |   |                |  |

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

| Equipment ID No :      | 1-IMO-225  |
|------------------------|--|
| Equipment Class:       | (8) Motor-Operated and Solenoid-Operated Valves  |
| Equipment Description: | REFUELING WATER STORAGE TANK TO WEST CONTAINMENT |
| - MAY                  | A A A A A A A A A A A A A A A A A A A            |
|                        |  |
| ALL ALL                |  |
|                        |  |
| 1 232                  |  |
| 3/10/1                 |  |

P9180779



P9180780

|  |   | Status: Y N U                                   |
|--|---|---|
| Seismic Walkdown Checklist (SW   | VC)   |   |
| Equipment ID No.: 1-I  | MO-320  |   |
| Equipment Class: (8)   | Motor-Operated and Solenoid-Operated Valves   |   |
| Equipment Description: WE  | EST RESIDUAL HEAT REMOVAL PUMP PP-35W SUC   | TION  |
| Project:   | DC Cook 1 SWEL  |   |
| Location (Bldg, Elev, Room/Area):  | AB1, 573.00 ft, 55  |   |
| Manufacturer/Model:  |   |   |
| Instructions for Completing Chec   | cklist  |   |
| This checklist may be used to docu<br>SWEL. The space below each of th<br>findings. Additional space is provid     | ment the results of the Seismic Walkdown of an item of<br>the following questions may be used to record the results<br>led at the end of this checklist for documenting other con | equipment on the<br>of judgments and<br>nments. |
| 1. Is anchorage configuration<br>of SWEL items requiring su  | verification required (i.e., is the item one of the 50% uch verification)?  | No  |
|  |   |   |
|  |   |   |
| 2. Is the anchorage free of be   | nt, broken, missing or loose hardware?  | Not Applicable                                  |
|  |   |   |
|  |   |   |
| 3. Is the anchorage free of co   | rrosion that is more than mild surface oxidation?   | Not Applicable                                  |
|  |   |   |
|  |   |   |
| 4. Is the anchorage free of vis  | sible cracks in the concrete near the anchors?  | Not Applicable                                  |
|  |   |   |
|  |   |   |
| <ol> <li>Is the anchorage configural<br/>This question only applies i<br/>configuration verification is</li> </ol> | tion consistent with plant documentation? (Note:<br>if the item is one of the 50% for which an anchorage<br>required.)  | Not Applicable                                  |
|  |   |   |
| <ol><li>Based on the above anchor<br/>potentially adverse seismic</li></ol>  | rage evaluations, is the anchorage free of conditions?  | Yes   |
|  |   |   |

Interaction Effects

|                 | Equipment ID No ·                            | 1-IMO-320  |                                   |                           |           |          |     |
|-----------------|--|--|-----------------------------------|---------------------------|-----------|----------|-----|
|                 | Equipment Class:                             | (9) Motor Operat   | od and Solon                      | aid Operated              | Valvos    | ÷.       |     |
|                 | Equipment Class.                             |  |                                   |                           |           | OTION    |     |
| Z Are           | oment Description:                           | WEST RESIDUA   | L HEAT REM                        | OVAL PUMP                 | PP-35W SU | CTION    | Yes |
| 1. 740          |  | in input by nourb  | y oquipmont (                     | or otraotaroo.            |           |          |     |
|                 |  |  |                                   |                           |           |          |     |
|                 |  |  |                                   |                           |           |          |     |
| 8. Are<br>mas   | overhead equipme<br>sonry block walls no     | nt, distribution syst<br>ot likely to collapse   | tems, ceiling ti<br>onto the equi | les and lightin<br>pment? | ng, and   |          | Yes |
|                 |  |  |                                   |                           |           |          |     |
|                 |  |  |                                   |                           |           |          |     |
| 9. Do           | attached lines have                          | adequate flexibility   | y to avoid dan                    | nage?                     |           |          | Yes |
|                 |  |  |                                   |                           |           |          |     |
|                 |  |  |                                   |                           |           |          |     |
|                 |  |  |                                   |                           |           |          |     |
| 10. Bas<br>pote | ed on the above se<br>entially adverse seis  | ismic interaction endersities and a series of the series o | valuations, is ects?              | equipment fre             | e of      |          | Yes |
|                 |  |  |                                   |                           |           |          |     |
|                 |  |  |                                   |                           |           |          |     |
| ther Adve       | arse Conditions                              |  | <u></u>                           | 20. 2011<br>20. 2011      |           |          |     |
| 11. Hav<br>adv  | ve you looked for ar<br>ersely affect the sa | nd found no advers<br>fety functions of the  | e seismic con<br>e equipment?     | ditions that co           | buld      |          | Yes |
|                 |  |  |                                   |                           |           |          |     |
|                 |  |  |                                   |                           |           |          |     |
| omments         |  |  |                                   |                           |           |          |     |
| valuated b      | y: Joney )                                   | ). den & Ge  | eorge G Thom                      | as                        | Date: _   | 10/18/12 |     |
|                 | AL.  | 0  |                                   |                           |           |          |     |
|                 |  |  |                                   |                           |           |          |     |

**Photos** 

Status: Y N U

# Seismic Walkdown Checklist (SWC)

| Equipment ID No.:      | 1-IMO-320          |               | 11<br>- 500<br> |           |        |                      |
|------------------------|--------------------|---------------|-----------------|-----------|--------|----------------------|
| Equipment Class:       | (8) Motor-Operated | and Solenoid- | Operated \      | /alves    | 4:<br> |                      |
| Equipment Description: | WEST RESIDUAL      | HEAT REMOV    | AL PUMP         | PP-35W SI | JCTION | an sta<br>Tarra Mara |

P9180838





P9180837



C-211

| Status: Y N  | I     |
|--|-------|
| Seismic Walkdown Checklist (SWC)   |       |
|  |       |
| Equipment ID No.: 1-IMO-331  |       |
| Equipment Class: _(8) Motor-Operated and Solenoid-Operated Valves  |       |
| Equipment Description: WEST RHR TO UPPER CONTAINMENT SPRAY SHUTOFF VALVE   |       |
| Project: DC Cook 1 SWEL  |       |
| Location (Bldg, Elev, Room/Area): _AB1, 609.00 ft, 6   |       |
| Manufacturer/Model:  |       |
| Instructions for Completing Checklist  |       |
| This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. | 4     |
| Anchorage  |       |
| <ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50%<br/>of SWEL items requiring such verification)?</li> </ol>   | 10.00 |
|  |       |
|  |       |
| 2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable  | -     |
|  |       |
|  |       |
| 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable   |       |
|  |       |
|  |       |
|  |       |
| 4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable  |       |
|  |       |
|  |       |
| <ol> <li>Is the anchorage configuration consistent with plant documentation? (Note:<br/>This question only applies if the item is one of the 50% for which an anchorage<br/>configuration verification is required.)     </li> </ol>   |       |
|  |       |
|  |       |
| 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?  |       |
|  |       |
|  |       |

Interaction Effects

C-212

| Seism  | ic Walkdown C                   | hecklist                | (SWC)                                 |  |                              |           | Status:    | Y N U |
|--------|---------------------------------|-------------------------|---------------------------------------|--|------------------------------|-----------|------------|-------|
| Jeisin | Equipment                       | t ID No.:               | 1-IMO-331                             |  |                              |           |            |       |
|        | Equipmen                        | nt Class:               | (8) Motor-O                           | perated and Soler                      | oid-Operated                 | Valves    |            |       |
|        | Equipment Des                   | cription:               | WEST RHR                              | TO UPPER CON                           | TAINMENT SI                  | PRAY SHUT | TOFF VALVE |       |
| 7.     | Are soft target                 | s free from             | m impact by r                         | nearby equipment                       | or structures?               |           |            | Yes   |
|        |                                 |                         |                                       |  |                              |           |            |       |
|        |                                 |                         |                                       |  |                              |           |            |       |
|        |                                 |                         |                                       |  |                              |           |            |       |
| 8.     | Are overhead<br>masonry block   | equipmer<br>walls not   | nt, distributior<br>t likely to colla | i systems, ceiling apse onto the equ   | tiles and lightir<br>ipment? | ng, and   |            | Yes   |
|        |                                 |                         |                                       |  |                              |           |            |       |
|        |                                 |                         |                                       |  |                              |           |            |       |
| 9.     | Do attached li                  | nes have                | adequate flex                         | xibility to avoid da                   | mage?                        |           |            | Yes   |
|        |                                 |                         |                                       |  |                              |           |            |       |
|        |                                 |                         |                                       |  |                              |           |            |       |
|        |                                 |                         |                                       |  |                              |           |            |       |
| 10.    | Based on the potentially adv    | above sei<br>/erse seis | smic interact<br>mic interactic       | ion evaluations, is<br>on effects?     | equipment fre                | e of      |            | Yes   |
|        |                                 |                         |                                       |  |                              |           |            |       |
|        |                                 |                         |                                       |  |                              |           |            |       |
| Other  | Adverse Cond                    | itions                  |                                       |  |                              |           |            |       |
| 11.    | Have you look<br>adversely affe | ed for and              | d found no ac<br>ety functions        | dverse seismic co<br>of the equipment? | nditions that co             | blud      |            | Yes   |
|        |                                 |                         |                                       |  |                              |           |            |       |
|        |                                 |                         |                                       |  |                              |           |            |       |
| Comm   | <u>nents</u>                    |                         |                                       |  |                              |           |            |       |
| Evalua | ited by:                        | grand 77                | . Jul                                 | - George G Thor                        | nas                          | Date:     | 10/18/12   |       |
|        |                                 | Alle                    | mp.                                   |  |                              |           | 10110110   |       |
|        |                                 | ~                       | 1                                     | Neda Stoeva                            |                              |           | 10/18/12   |       |

**Photos** 

Status: Y N U

# Seismic Walkdown Checklist (SWC)

| Equipment ID No.:      | 1-IMO-331   |
|------------------------|---|
| Equipment Class:       | (8) Motor-Operated and Solenoid-Operated Valves   |
| Equipment Description: | WEST RHR TO UPPER CONTAINMENT SPRAY SHUTOFF VALVE |





Status: Y N U

# Seismic Walkdown Checklist (SWC)

| Equipment ID No.:      | 1-IMO-331   |
|------------------------|---|
| Equipment Class:       | (8) Motor-Operated and Solenoid-Operated Valves   |
| Equipment Description: | WEST RHR TO UPPER CONTAINMENT SPRAY SHUTOFF VALVE |
|                        |   |
|                        |   |
|                        |   |
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|------|------|----|------|----|-------|----|
|      |      |    |      |    |       |    |
|      |      |    |      |    |       |    |
|      |      |    |      |    |       |    |
|      |      |    |      |    |       |    |

| Status: | Y     | Ν | U |
|---------|-------|---|---|
|         | Lunna |   |   |

No

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-IMO-350

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: WEST RHR HEAT EXCHANGER OUTLET TO SAFETY INJECTION

Project: DC Cook 1 SWEL

Location (Bldg, Elev, Room/Area): AB1, 609.00 ft, 6

#### Manufacturer/Model:

#### Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

#### Anchorage

- Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
- Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable
   Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable
- 4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable
- 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

#### Interaction Effects

|                    |  | Status:   | Y N U  |
|--------------------|--|---|--------|
| Seismic Walk       | down Checklist                           | (SWC)   |        |
| Ec                 | quipment ID No.:                         | 1-IMO-350   | a.<br> |
| E                  | quipment Class:                          | (8) Motor-Operated and Solenoid-Operated Valves   |        |
| Equipm             | nent Description:                        | WEST RHR HEAT EXCHANGER OUTLET TO SAFETY INJECTION  |        |
| 7. Are so          | oft targets free fro                     | m impact by nearby equipment or structures?   | Yes    |
|                    |  |   |        |
|                    |  |   |        |
|                    |  |   |        |
| 8. Are o<br>maso   | verhead equipme<br>nry block walls no    | nt, distribution systems, ceiling tiles and lighting, and<br>t likely to collapse onto the equipment? | Yes    |
|                    |  |   |        |
|                    |  |   |        |
| 0 Do ott           | tached lines have                        | adaguata flavibility to guaid damagea   | Vee    |
| 9. D0 au           | lacheu lines nave                        | adequate nexibility to avoid damage?  | res    |
|                    |  |   |        |
|                    |  |   |        |
|                    |  |   |        |
| 10. Based<br>poten | d on the above se<br>tially adverse seis | ismic interaction evaluations, is equipment free of smic interaction effects?                         | Yes    |
|                    |  |   |        |
|                    |  |   |        |
|                    |  |   |        |
| Other Advers       | se Conditions                            |   | v      |
| adver              | sely affect the saf                      | fety functions of the equipment?  | Yes    |
|                    |  |   |        |
|                    |  |   |        |
| <u>Comments</u>    |  |   |        |
|                    |  |   |        |
| Evaluated by:      | Youry Y                                  | George G Thomas Date: 10/18/12  |        |
|                    | (A)                                      | $\cap$  |        |
|                    | au                                       | My.   |        |
|                    |  | · Neda Stoeva 10/18/12  |        |

Photos

Status: Y N U

C-218

# Seismic Walkdown Checklist (SWC)

|     | Equipment ID No.:   | 1-IMO-350  |  |
|-----|---------------------|--|--|
|     | Equipment Class:    | (8) Motor-Operated and Solenoid-Operated Valves    |  |
| Equ | ipment Description: | WEST RHR HEAT EXCHANGER OUTLET TO SAFETY INJECTION |  |





Status: Y N U

## Seismic Walkdown Checklist (SWC)

| Equipment ID No.:      | 1-IMO-350  |
|------------------------|--|
| Equipment Class:       | (8) Motor-Operated and Solenoid-Operated Valves    |
| Equipment Description: | WEST RHR HEAT EXCHANGER OUTLET TO SAFETY INJECTION |



C-219

Status: Y N U

| Seismic Walkdown Checklist (SWC)   |  |
|--|--|
| Equipment ID No.: 1-IMO-52   |  |
| Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves   |  |
| Equipment Description: BORON INJECTION TO REACTOR COOLANT LOOP   | #2 SHUTOFF   |
| Project: DC Cook 1 SWEL  |  |
| Location (Bldg, Elev, Room/Area): CON1, 598.00 ft, 59  |  |
| Manufacturer/Model:  |  |
| Instructions for Completing Checklist<br>This checklist may be used to document the results of the Seismic Walkdown of an item<br>SWEL. The space below each of the following questions may be used to record the res<br>findings. Additional space is provided at the end of this checklist for documenting other | of equipment on the<br>sults of judgments and<br>comments. |
| <ul> <li>Anchorage</li> <li>1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ul>   | No   |
|  |  |
| 2. Is the anchorage free of bent, broken, missing or loose hardware?   | Not Applicable   |
|  |  |
| 3. Is the anchorage free of corrosion that is more than mild surface oxidation?  | Not Applicable   |
|  |  |
| 4. Is the anchorage free of visible cracks in the concrete near the anchors?   | Not Applicable   |
|  |  |
| 5. Is the anchorage configuration consistent with plant documentation? (Note:<br>This question only applies if the item is one of the 50% for which an anchorage<br>configuration verification is required.)   | Not Applicable   |
|  |  |
| 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?  | Yes  |
|  |  |

| Seism       | ic Walkdown                 | ) Checklist (                | (SWC)   |                           |                            |                         |           | Status:   | YN U |
|-------------|-----------------------------|------------------------------|---|---------------------------|----------------------------|-------------------------|-----------|---|------|
|             | Equipme                     | ent ID No.:                  | 1-IMO-52  |                           |                            |                         |           |   |      |
|             | Equipm                      | ent Class:                   | (8) Motor-O   | perated an                | d Solenoi                  | d-Operated              | /alves    |   |      |
|             | Equipment D                 | escription:                  | BORON IN.   | JECTION 1                 | TO REACT                   | OR COOLA                | NT LOOP # | #2 SHUTOFF  |      |
| 7.          | Are soft targ               | gets free from               | n impact by   | nearby equ                | uipment or                 | structures?             |           |   | Yes  |
|             |                             |                              |   |                           |                            |                         |           |   |      |
| 8.          | Are overhea<br>masonry blo  | ad equipmen<br>ock walls not | t, distribution<br>likely to coll   | n systems,<br>apse onto   | ceiling tile<br>the equipr | es and lightin<br>nent? | g, and    |   | Yes  |
|             |                             |                              |   |                           |                            |                         |           |   |      |
| 9.          | Do attached                 | l lines have a               | adequate fle  | xibility to a             | void dama                  | ige?                    |           |   | Yes  |
|             |                             |                              |   |                           |                            |                         |           |   |      |
|             |                             |                              |   |                           |                            |                         |           |   |      |
| 10.         | Based on th potentially a   | e above seis<br>dverse seisr | smic interact<br>mic interaction  | tion evalua               | tions, is e                | quipment fre            | e of      |   | Yes  |
|             |                             |                              |   |                           |                            |                         |           |   |      |
|             |                             |                              |   |                           |                            |                         |           |   |      |
| Other       | Adverse Cor                 | nditions                     |   |                           |                            |                         |           |   |      |
| 11.         | Have you lo<br>adversely at | oked for and                 | d found no a<br>ety functions   | dverse seis<br>of the equ | smic condi<br>ipment?      | tions that co           | uld       |   | Yes  |
|             |                             |                              |   |                           |                            |                         |           |   |      |
| <u>Comn</u> | <u>nents</u>                |                              | na na katalog na katal<br>Ana da katalog na katal<br>Na katalog na |                           |                            |                         |           | novačno zrazljeđa do 1976 - 19<br>19. – 19. – 19. – 19. – 19. – 19. – 19. – 19. – 19. – 19. – 19. – 19. – 19. – 19. – 19. – 19. – 19. – 19. – 19. |      |
| Evalua      | ated by: _                  | your y                       | . dre   | - George                  | G Thoma                    | S                       | Date:     | 10/18/12  |      |
|             |                             | Alu                          | mf.   | Neda Sto                  | eva                        |                         |           | 10/18/12  |      |
|             |                             |                              |   | A DOTA OF STORES          |                            |                         |           |   |      |

Photos

Status: Y N U

# Seismic Walkdown Checklist (SWC)

|    | Equipment ID No.:    | 1-IMO-52   |  |
|----|----------------------|--|--|
|    | Equipment Class:     | (8) Motor-Operated and Solenoid-Operated Valves    |  |
| Ec | uipment Description: | BORON INJECTION TO REACTOR COOLANT LOOP #2 SHUTOFF |  |
|    |                      |  |  |





Status: Y N U

## Seismic Walkdown Checklist (SWC)

| Equipment ID No.:      | 1-IMO-52   |
|------------------------|--|
| Equipment Class:       | (8) Motor-Operated and Solenoid-Operated Valves    |
| Equipment Description: | BORON INJECTION TO REACTOR COOLANT LOOP #2 SHUTOFF |
|                        |  |





P9110350







P9110352

Status: Y N U

# Seismic Walkdown Checklist (SWC)

| Equipment ID No.:      | 1-IMO-52   |
|------------------------|--|
| Equipment Class:       | (8) Motor-Operated and Solenoid-Operated Valves    |
| Equipment Description: | BORON INJECTION TO REACTOR COOLANT LOOP #2 SHUTOFF |
|                        |  |





P9110353

Status: Y N U

| Seismic Walkdown Checklist (SWC)   |  |
|--|--|
| Equipment ID No.: _1-IMO-911   |  |
| Equipment Class: _(8) Motor-Operated and Solenoid-Operated Valves  | 2  |
| Equipment Description: REFUELING WATER STORAGE TANK TO CVCS CH   | ARGING   |
| Project: DC Cook 1 SWEL  |  |
| Location (Bldg, Elev, Room/Area): _AB1, 587.00 ft, 40  |  |
| Manufacturer/Model:  |  |
| Instructions for Completing Checklist  |  |
| This checklist may be used to document the results of the Seismic Walkdown of an item SWEL. The space below each of the following questions may be used to record the result findings. Additional space is provided at the end of this checklist for documenting other | n of equipment on the<br>sults of judgments and<br>comments. |
| Anchorage  |  |
| <ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50%<br/>of SWEL items requiring such verification)?</li> </ol>   | No   |
|  |  |
|  |  |
| 2. Is the anchorage free of bent, broken, missing or loose hardware?   | Not Applicable   |
|  |  |
|  |  |
| 3. Is the anchorage free of corrosion that is more than mild surface oxidation?  | Not Applicable   |
|  |  |
|  |  |
| 4. Is the anchorage free of visible cracks in the concrete near the anchors?   | Not Applicable   |
|  |  |
|  |  |
|  |  |
| <ol> <li>Is the anchorage configuration consistent with plant documentation? (Note:<br/>This question only applies if the item is one of the 50% for which an anchorage<br/>configuration varification is required.)</li> </ol>  | Not Applicable   |
| computation vernication is required.)  |  |
|  |  |
| 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?  | Yes  |
|  |  |
|  |  |

|   |  |  |  |                               |                              |             | Status   | : [Y] N  | U |
|---|--|--|--|-------------------------------|------------------------------|-------------|----------|----------|---|
| Seism   | nic Walkdow  | n Checklist                                  | (SWC)  |                               |                              |             |          |          |   |
|   | Equipn   | nent ID No.:                                 | 1-IMO-911                                    |                               | 29-12<br>2011                |             | 1        |          |   |
|   | Equip  | ment Class:                                  | (8) Motor-Opera                              | ted and Sol                   | enoid-Opera                  | ated Valves |          |          |   |
|   | Equipment I  | Description:                                 | REFUELING W                                  | ATER STO                      | RAGE TANK                    | TO CVCS CH  | ARGING   | 11<br>11 |   |
| 7.  | Are soft ta  | rgets free fro                               | m impact by near                             | by equipme                    | nt or structu                | res?        |          | Yes      | 5 |
|   |  |  |  |                               |                              |             |          |          |   |
| 8.  | Are overhe<br>masonry b  | ead equipme<br>lock walls no                 | nt, distribution sys<br>t likely to collapse | stems, ceilir<br>e onto the e | ig tiles and li<br>quipment? | ghting, and |          | Ye       | 5 |
|   |  |  |  |                               |                              |             |          |          |   |
| 9.  | Do attache   | ed lines have                                | adequate flexibili                           | ity to avoid o                | damage?                      |             |          | Ye       | 3 |
| 10.   | Based on potentially   | the above se<br>adverse seis                 | ismic interaction<br>mic interaction e       | evaluations,<br>ffects?       | is equipme                   | nt free of  |          | Ye       | 5 |
| in a state of the | 115<br>199<br>199<br>199<br>199<br>199<br>199<br>199<br>199<br>199 |  | 1.0<br>1.0<br>10<br>17 10<br>17 10           |                               |                              |             |          |          |   |
| <u>Other</u><br>11.   | Adverse Co<br>Have you<br>adversely                                | onditions<br>looked for an<br>affect the saf | d found no adver<br>ety functions of th      | se seismic o<br>ne equipme    | conditions th<br>nt?         | at could    |          | Ye       | S |
| ijanet<br>Kja<br>Jag  | ्वम्<br>अस्<br>स   |  |  | 18.<br>181<br>186<br>198      | 978.<br>a.1 <sup>031</sup>   |             |          |          |   |
| Comr<br>Deficie   | <u>nents</u><br>ency tag on v                                      | valve - leakaç                               | ge - see photo                               |                               |                              |             |          |          |   |
| Evalu   | ated by:   | Yoran J                                      | ). and a                                     | George G Th                   | nomas                        | Date:       | 10/18/12 |          |   |
|   |  | Alu  | mf.<br>Nec                                   | da Stoeva                     |                              |             | 10/18/12 |          |   |
|   |  |  |  |                               |                              |             |          |          |   |

## Photos

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-IMO-911

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: REFUELING WATER STORAGE TANK TO CVCS CHARGING



P9180720



P9180721

C-227

Status: Y N U

C-228

# Seismic Walkdown Checklist (SWC)

| Equipment ID No.:      | 1-IMO-911                                       |
|------------------------|---|
| Equipment Class:       | (8) Motor-Operated and Solenoid-Operated Valves |
| Equipment Description: | REFUELING WATER STORAGE TANK TO CVCS CHARGING   |



|  |   |   |   |  | S   | Status: Y N U                     |
|--|---|---|---|--|---|-----------------------------------|
| Seismic Wal                                    | kdown Checklist   | (SWC)   |   |  |   |                                   |
| E  | quipment ID No.:  | 1-MCAB  |   |  |   |                                   |
| en e       | quipment Class:   | (14) Distributio  | on Panels   |  |   |                                   |
| Equipr   | nent Description:   | 250VDC DIST   | <b>RIBUTION PAI</b>                                   | NEL MCAB   |   |                                   |
|  | Proj  | ect: DC Cook  | 1 SWEL  | 9 . 9  | 201<br>2  |                                   |
| Location (Bld                                  | g, Elev, Room/Are   | ea): AB1, 609.  | 00 ft, 200  |  |   | ne ne pa<br>ar                    |
|  | Manufacturer/Mo   | del:  |   |  |   |                                   |
| Instructions                                   | for Completing  | Checklist   |   |  |   |                                   |
| This checklist<br>SWEL. The s<br>findings. Add | may be used to o<br>pace below each<br>itional space is p | document the re<br>of the following<br>rovided at the er    | sults of the Sei<br>questions may<br>nd of this check | smic Walkdowr<br>be used to rec<br>list for docume   | n of an item of equ<br>cord the results of<br>nting other commo | ipment on the judgments and ents. |
| Anchorage<br>1. Is an<br>of SV<br><i>CAI</i>   | horage configura<br>VEL items requirir<br>VNOT OPEN OR    | ation verification<br>ng such verificati<br>SEE ANY ANCH    | required (i.e., is<br>on)?<br>HORAGE                  | s the item one o   | of the 50%  | Yes                               |
|  |   |   |   |  |   |                                   |
| 2. Is the                                      | anchorage free  | of bent, broken,  | missing or loos                                       | e hardware?  |   | Unknown                           |
|  |   |   |   |  |   |                                   |
|  |   |   |   |  |   |                                   |
|  |   |   |   | 111<br>111 - 111<br>111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 11 |   |                                   |
| 3. Is the                                      | anchorage free o  | of corrosion that   | is more than m  | ild surface oxic   | lation?   | Unknown                           |
|  |   |   |   |  |   |                                   |
|  |   |   |   |  |   |                                   |
| 4. Is the                                      | anchorage free  | of visible cracks   | in the concrete                                       | near the ancho   | ors?  | Unknown                           |
|  |   |   |   |  |   |                                   |
|  |   |   |   |  |   |                                   |
|  |   |   |   |  |   |                                   |
| 5. Is the<br>This<br>confi                     | anchorage configuestion only app<br>guration verification | guration consist<br>lies if the item is<br>on is required.) | ent with plant d<br>one of the 50%                    | ocumentation?<br>⁄ for which an a  | (Note:<br>anchorage   | Unknown                           |
|  |   |   |   |  |   |                                   |
| 6. Base<br>poter<br><i>CAI</i>                 | d on the above ar<br>itially adverse sei<br>NNOT OPEN OR  | nchorage evalua<br>smic conditions'<br>SEE ANY ANCI         | itions, is the an<br>?<br>HORAGE                      | chorage free of  |   | Unknown                           |
|  |   |   |   |  |   |                                   |

Interaction Effects

| itatus: Y N U |
|---------------|
|               |
|               |
|               |
|               |
| Yes           |
|               |
|               |
| Vaa           |
| res           |
|               |
|               |
| Yes           |
|               |
|               |
|               |
| Yes           |
|               |
|               |
|               |
|               |
| Unknown       |
|               |
|               |
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| 8/12          |
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|               |

**Photos** 

Status: Y N U

# Seismic Walkdown Checklist (SWC)

| Equipment ID No .:     | 1-MCAB                  |               |       |
|------------------------|-------------------------|---------------|-------|
| Equipment Class:       | (14) Distribution Panel | S             | 4     |
| Equipment Description: | 250VDC DISTRIBUTIO      | ON PANEL MCAB |       |
| P9170706               |                         |               |       |
|                        |                         |               | A Jen |
|                        |                         | P9170707      |       |

Status: Y N U

## Seismic Walkdown Checklist (SWC)

| Equipment ID No.:      | 1-MCAB                         |   |
|------------------------|--------------------------------|---|
| Equipment Class:       | (14) Distribution Panels       | Internet of the second seco |
| Equipment Description: | 250VDC DISTRIBUTION PANEL MCAB |   |





P9170709

Status: Y N U

## Seismic Walkdown Checklist (SWC)

| Equipment ID No.: 1-MCM-221  |   |
|--|---|
| Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves   |   |
| Equipment Description: MAIN STEAM LEAD #2 TO AUXILIARY FEED PUMP TURK  | BINE  |
| Project: DC Cook 1 SWEL  | ngan an an an Angalan a |
| Location (Bldg, Elev, Room/Area): AB1, 633.00 ft, 9  |   |
| Manufacturer/Model:  |   |
| Instructions for Completing Checklist<br>This checklist may be used to document the results of the Seismic Walkdown of an item of e<br>SWEL. The space below each of the following questions may be used to record the results of<br>findings. Additional space is provided at the end of this checklist for documenting other com | quipment on the of judgments and ments.   |
| Anchorage  |   |
| <ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50%<br/>of SWEL items requiring such verification)?</li> </ol>   | No  |
|  |   |
|  |   |
| 2. Is the anchorage free of bent, broken, missing or loose hardware?   | Not Applicable  |
|  |   |
|  |   |
| 3. Is the anchorage free of corrosion that is more than mild surface oxidation?  | Not Applicable  |
|  |   |
|  |   |
|  |   |
| 4. Is the anchorage free of visible cracks in the concrete near the anchors?   | Not Applicable  |
|  |   |
|  |   |
| <ol> <li>Is the anchorage configuration consistent with plant documentation? (Note:<br/>This question only applies if the item is one of the 50% for which an anchorage<br/>configuration verification is required.)</li> </ol>  | Not Applicable  |
|  |   |
|  |   |
| 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?  | Yes   |
|  |   |

Interaction Effects

| Seismi  | c Walkdown Checklist                            | (SWC)  |     |
|---------|---|--|-----|
|         | Equipment ID No.:                               | 1-MCM-221  |     |
|         | Equipment Class:                                | (8) Motor-Operated and Solenoid-Operated Valves  |     |
|         |   |  |     |
| 7.      | Are soft targets free fro                       | m impact by nearby equipment or structures?  | Yes |
|         |   |  |     |
|         |   |  |     |
|         |   |  |     |
| 8.      | Are overhead equipme masonry block walls no     | nt, distribution systems, ceiling tiles and lighting, and<br>ot likely to collapse onto the equipment? | Yes |
|         |   |  |     |
|         |   |  |     |
| 9.      | Do attached lines have                          | adequate flexibility to avoid damage?  | Yes |
|         |   |  |     |
|         |   |  |     |
|         |   |  |     |
| 10.     | Based on the above se                           | ismic interaction evaluations, is equipment free of  | Yes |
|         | potentially adverse seis                        | smic interaction effects?  |     |
|         |   |  |     |
|         |   |  |     |
| Other A | Adverse Conditions                              |  |     |
| 11.     | Have you looked for an adversely affect the sat | nd found no adverse seismic conditions that could<br>fety functions of the equipment?                  | Yes |
|         |   |  |     |
|         |   |  |     |
| Comme   | ents  |  |     |
| Evaluat | ed by:  | George G Thomas Date: 10/18/12   |     |
|         | A.  | 0  |     |
|         | Ull   | Neda Stoeva 10/18/12   |     |
|         |   |  |     |

Photos

Status: Y N U

# Seismic Walkdown Checklist (SWC)

| Equipment ID No.:  | 1-MCM-221   |  |
|--|---|--|
| Equipment Class:   | (8) Motor-Operated and Solenoid-Operated Valves   |  |
| Equipment Description:   | MAIN STEAM LEAD #2 TO AUXILIARY FEED PUMP TURBINE |  |
| AND A REAL PROPERTY AND A REAL |   |  |



| Seismic Walkdown Checklist (SWC)   | Status: Y N U   |
|--|---|
|  |   |
| Equipment ID No.: 1-MRV-230  |   |
| Equipment Class: (0) Other   |   |
| Equipment Description: STEAM GENERATOR OME-3-3 STOP VAL  | VE  |
| Project: DC Cook 1 SWEL  |   |
| Location (Bldg, Elev, Room/Area): AB1, 633.00 ft, 9  |   |
| Manufacturer/Model:  |   |
| Instructions for Completing Checklist  |   |
| This checklist may be used to document the results of the Seismic Walkdown SWEL. The space below each of the following questions may be used to receive findings. Additional space is provided at the end of this checklist for document | of an item of equipment on the ord the results of judgments and nting other comments. |
| Anchorage  |   |
| <ol> <li>Is anchorage configuration verification required (i.e., is the item one of<br/>of SWEL items requiring such verification)?</li> </ol>   | of the 50% No   |
|  |   |
| 2. Is the anchorage free of bent, broken, missing or loose hardware?   | Not Applicable  |
|  |   |
| 3. Is the anchorage free of corrosion that is more than mild surface oxid  | ation? Not Applicable   |
|  |   |
| 4. Is the anchorage free of visible cracks in the concrete near the ancho  | vrs? Not Applicable   |
|  |   |
| <ol> <li>Is the anchorage configuration consistent with plant documentation?<br/>This question only applies if the item is one of the 50% for which an a<br/>configuration verification is required.)</li> </ol>                         | (Note: Not Applicable<br>nchorage   |
|  |   |
| 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?  | Yes   |
|  |   |

# Interaction Effects

|         | Equipment ID No.:   | 1-MRV-230   |      |
|---------|---|---|------|
|         | Equipment Class:  | (0) Other   |      |
| E       | Equipment Description:  | STEAM GENERATOR OME-3-3 STOP VALVE  |      |
| 7.      | Are soft targets free fro   | m impact by nearby equipment or structures?   | Yes  |
|         |   |   |      |
|         |   |   |      |
|         |   |   |      |
| 8.      | Are overhead equipment<br>masonry block walls no<br>Scaffold by valve (top) | nt, distribution systems, ceiling tiles and lighting, and<br>t likely to collapse onto the equipment?<br>) <i>tagged and installed per seismic scaffold procedure</i> | Yes  |
|         |   |   |      |
|         |   |   |      |
| 9.      | Do attached lines have  | adequate flexibility to avoid damage?   | Yes  |
|         |   |   |      |
|         |   |   |      |
| 10.     | Based on the above se potentially adverse seis                              | ismic interaction evaluations, is equipment free of<br>mic interaction effects?   | Yes  |
|         |   |   |      |
|         |   |   |      |
| Other A | Adverse Conditions  |   |      |
| 11.     | Have you looked for an adversely affect the saf                             | d found no adverse seismic conditions that could<br>tety functions of the equipment?  | Yes  |
|         |   |   |      |
| Comm    | ents  |   |      |
| E       | Barry Y   | ). The George & Thomas Date: 10/1   | 8/12 |

Neda Stoeva

10/18/12

**Photos** 

Status: Y N U

# Seismic Walkdown Checklist (SWC)

| Equipment ID No.: | 1-MRV-230 |
|-------------------|-----------|
| Equipment Class:  | (0) Other |
|                   |           |

Equipment Description: STEAM GENERATOR OME-3-3 STOP VALVE





P9170037

Status: Y N U

## Seismic Walkdown Checklist (SWC)

| Equipment ID No.:      | 1-MRV-230          |            |         | an an<br>1 <u>.</u> 22 |  |
|------------------------|--------------------|------------|---------|------------------------|--|
| Equipment Class:       | (0) Other          |            |         |                        |  |
| Equipment Description: | STEAM GENERATOR ON | NE-3-3 STO | P VALVE |                        |  |



Status: Y N U

|   | Seismic Walkdown Checklist (SWC)   |  |
|---|--|--|
|   | Equipment ID No.: 1-MRV-243  |  |
|   | Equipment Class: (7) Fluid-Operated Valves   |  |
|   | Equipment Description: STEAM GENERATOR OME-3-4 POWER OPERATE   | D RELIEF   |
| A | Project: DC Cook 1 SWEL  | a and general stars of a second star a s<br>Second star a second star a<br>Second star a second star a |
|   | Location (Bldg, Elev, Room/Area): AB1, 621.00 ft, 10   |  |
|   | Manufacturer/Model:  |  |
|   | Instructions for Completing Checklist  |  |
|   | This checklist may be used to document the results of the Seismic Walkdown of an ite SWEL. The space below each of the following questions may be used to record the refindings. Additional space is provided at the end of this checklist for documenting other | m of equipment on the<br>esults of judgments and<br>er comments.   |
|   | Anchorage  |  |
|   | <ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50%<br/>of SWEL items requiring such verification)?</li> </ol>   | % No   |
|   |  |  |
|   |  |  |
|   | 2. Is the anchorage free of bent, broken, missing or loose hardware?   | Not Applicable   |
|   |  |  |
|   |  |  |
|   | 3 Is the anchorage free of correction that is more than mild surface evidation?  | Not Applicable   |
|   |  | Not Applicable   |
|   |  |  |
|   |  |  |
|   | 4. Is the anchorage free of visible cracks in the concrete near the anchors?   | Not Applicable   |
|   |  |  |
|   |  |  |
|   |  | Net Applicable   |
|   | <ol> <li>Is the anchorage configuration consistent with plant documentation? (Note:<br/>This question only applies if the item is one of the 50% for which an anchorag<br/>configuration verification is required.)</li> </ol>                                   | e  |
|   |  |  |
|   |  |  |
|   | 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?  | Yes  |
|   |  |  |
|   |  |  |

# Interaction Effects

|     | Equipment ID No.:                               | 1-MRV-243  |     |
|-----|---|--|-----|
|     | Equipment Class:                                | (7) Fluid-Operated Valves  |     |
|     | Equipment Description:                          | STEAM GENERATOR OME-3-4 POWER OPERATED RELI  | EF  |
| 7.  | Are soft targets free fro                       | m impact by nearby equipment or structures?  | Yes |
|     |   |  |     |
| 8.  | Are overhead equipmen<br>masonry block walls no | nt, distribution systems, ceiling tiles and lighting, and tikely to collapse onto the equipment? | Yes |
|     |   |  |     |
| 9.  | Do attached lines have                          | adequate flexibility to avoid damage?  | Yes |
|     |   |  |     |
|     |   |  |     |
| 10. | Based on the above se potentially adverse seis  | ismic interaction evaluations, is equipment free of mic interaction effects?                     | Yes |
|     |   |  |     |
|     |   |  |     |

| <u>Comments</u> |                            |         |          |
|-----------------|----------------------------|---------|----------|
| Evaluated by:   | Mary M. J. George G Thomas | _ Date: | 10/18/12 |
|                 | Alung.<br>Neda Stoeva      |         | 10/18/12 |
|                 |                            | 3.      |          |
| Photos          |                            | e.      |          |

C-241

Status: Y N U

# Seismic Walkdown Checklist (SWC)

| E     | quipment ID No.:  | 1-MRV-243                 |      |         |         |        |
|-------|-------------------|---------------------------|------|---------|---------|--------|
| 1     | Equipment Class:  | (7) Fluid-Operated Valves |      | ₹       |         |        |
| Equip | ment Description: | STEAM GENERATOR OME       | -3-4 | POWER C | PERATED | RELIEF |





P9110287





Status: Y N U

| Seism                      | ic Walkdown Checklist (SWC)   |                               |
|----------------------------|---|-------------------------------|
|                            | Equipment ID No.: 1-NLP-153   |                               |
|                            | Equipment Class: (18) Instruments on Racks  |                               |
|                            | Equipment Description: PRESSURIZER OME-4 PROTECTION CHANNEL 3 LEVEL   |                               |
| 14 j                       | Project: DC Cook 1 SWEL   |                               |
| Locatio                    | on (Bldg, Eley, Boom/Area); CON1 612 00 ft 67   | <u>esten ecime communi</u> i. |
| LUCali                     | Manufacturar/Madal:   |                               |
| Instru                     | ctions for Completing Checklist   |                               |
| This cl<br>SWEL<br>finding | necklist may be used to document the results of the Seismic Walkdown of an item of equipm<br>The space below each of the following questions may be used to record the results of judg<br>s. Additional space is provided at the end of this checklist for documenting other comments | ent on the<br>gments and      |
| Ancho                      | orage   |                               |
| 1.                         | Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?  | Yes                           |
|                            |   |                               |
|                            |   |                               |
| 2.                         | Is the anchorage free of bent, broken, missing or loose hardware?   | Yes                           |
|                            | Cannot see top bolts of U bolts   |                               |
|                            |   |                               |
| <u>_</u>                   |   |                               |
| 3.                         | Is the anchorage free of corrosion that is more than mild surface oxidation?  | Yes                           |
|                            |   |                               |
|                            |   |                               |
| 4.                         | Is the anchorage free of visible cracks in the concrete near the anchors?   | Yes                           |
|                            |   |                               |
|                            |   |                               |
| F                          | In the enclosed on Enumerical enclosed with almost descended in Q (blacks)  | Vee                           |
| 5.                         | This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  | res                           |
|                            |   |                               |
|                            |   |                               |
| 6.                         | Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?  | Yes                           |
|                            |   |                               |
|                            |   |                               |
|                            |   |                               |
| Intera                     | ction Effects   |                               |

| a · · · |   |   | Status: Y | NU       |
|---------|---|---|-----------|----------|
| Seismi  | c Walkdown Checklis                             | (SWC)   |           |          |
|         | Equipment ID No.:                               | 1-NLP-153   | -         |          |
|         | Equipment Class:                                | (18) Instruments on Racks   |           | <b>W</b> |
|         | Equipment Description:                          | PRESSURIZER OME-4 PROTECTION CHANNEL 3 LI   | EVEL      |          |
| 7.      | Are soft targets free fre                       | om impact by nearby equipment or structures?  |           | Yes      |
|         |   |   |           |          |
|         |   |   |           |          |
|         |   |   |           |          |
| 8.      | Are overhead equipme<br>masonry block walls n   | ent, distribution systems, ceiling tiles and lighting, and<br>ot likely to collapse onto the equipment? |           | Yes      |
|         |   |   |           |          |
|         |   |   |           |          |
| 9.      | Do attached lines have                          | adequate flexibility to avoid damage?   |           | Yes      |
|         |   |   |           |          |
|         |   |   |           |          |
|         |   |   |           | Wite at  |
| 10.     | Based on the above se<br>potentially adverse se | eismic interaction evaluations, is equipment free of smic interaction effects?                          |           | Yes      |
|         |   |   |           |          |
|         |   |   |           |          |
| Other   | Adverse Conditions                              |   |           |          |
| 11.     | Have you looked for a adversely affect the sa   | nd found no adverse seismic conditions that could fety functions of the equipment?                      |           | Yes      |
|         |   |   |           |          |
|         |   |   |           |          |
| Comm    | <u>ents</u>                                     |   |           |          |
| Evalua  | ted by:   | d. d. George G Thomas Date:   | 10/18/12  |          |
|         |   | 0   |           |          |
|         | an  | MY-Neda Stoeva  | 10/18/12  |          |
|         |   |   |           |          |
| 111     |   |   |           |          |
| Photos  | <u>8</u>  |   |           |          |
|         |   |   |           |          |

Status: Y N U

# Seismic Walkdown Checklist (SWC)

| Equipment ID No.:      | 1-NLP-153                                    |
|------------------------|--|
| Equipment Class:       | (18) Instruments on Racks                    |
| Equipment Description: | PRESSURIZER OME-4 PROTECTION CHANNEL 3 LEVEL |







|                  |                     | Equipment ID No.: _1-NPS-111   |                      |
|------------------|---------------------|--|----------------------|
|                  |                     | Equipment Class: _(18) Instruments on Racks  |                      |
|                  | E                   | Equipment Description: REACTOR VESSEL TRAIN 'B' WIDE RANGE PRESSURE  |                      |
|                  |                     | Project: DC Cook 1 SWEL  | × 1                  |
| Loc              | atio                | n (Bldg, Elev, Room/Area): _ AB1, 612.00 ft, 12  |                      |
|                  |                     | Manufacturer/Model:  |                      |
| ns               | truc                | tions for Completing Checklist   |                      |
| Thi<br>SW<br>inc | s ch<br>EL.<br>ings | ecklist may be used to document the results of the Seismic Walkdown of an item of equipme.<br>The space below each of the following questions may be used to record the results of judge.<br>Additional space is provided at the end of this checklist for documenting other comments. | ent on the ments and |
| An               | cho                 | age  |                      |
|                  | 1.                  | Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?<br>DWG 1-5570H REV9   | Yes                  |
|                  |                     |  |                      |
|                  | 2.                  | Is the anchorage free of bent, broken, missing or loose hardware?  | Yes                  |
|                  |                     |  |                      |
|                  | 3.                  | Is the anchorage free of corrosion that is more than mild surface oxidation?   | Yes                  |
|                  |                     |  |                      |
|                  |                     |  |                      |
|                  | 4.                  | Is the anchorage free of visible cracks in the concrete near the anchors?  | Yes                  |
|                  |                     |  |                      |
|                  |                     |  |                      |
|                  | 5.                  | Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  | Yes                  |
|                  |                     |  |                      |
|                  | 6.                  | Based on the above anchorage evaluations, is the anchorage free of   | Yes                  |

# Interaction Effects

|       |   |   | Status: Y N U |
|-------|---|---|---------------|
| Seism | ic Walkdown Checklist                             | (SWC)   |               |
|       | Equipment ID No.:                                 | 1-NPS-111   |               |
|       | Equipment Class:                                  | (18) Instruments on Racks   |               |
|       | Equipment Description:                            | REACTOR VESSEL TRAIN 'B' WIDE RANGE PRESSURE  |               |
| 7.    | Are soft targets free fro                         | m impact by nearby equipment or structures?   | Yes           |
|       |   |   |               |
|       |   |   |               |
| 0     | And a under a discussion                          | at distribution systems, spiling tiles and lighting, and                              | Vee           |
| δ.    | masonry block walls no                            | it likely to collapse onto the equipment?   | Tes           |
|       |   |   |               |
|       |   |   |               |
| 9.    | Do attached lines have                            | adequate flexibility to avoid damage?   | Yes           |
|       |   |   |               |
|       |   |   |               |
|       |   |   |               |
| 10.   | Based on the above se<br>potentially adverse seis | ismic interaction evaluations, is equipment free of smic interaction effects?         | Yes           |
|       |   |   |               |
|       |   |   |               |
| Other | Adverse Conditions                                |   |               |
| 11.   | Have you looked for an adversely affect the sat   | Id found no adverse seismic conditions that could<br>fety functions of the equipment? | Yes           |
|       |   |   |               |
|       |   |   |               |
| Com   | nents   |   |               |
| Evalu | ated by:  | George G Thomas Date: 10/   | 18/12         |
|       | Alu   | mp.   |               |
|       |   | Neda Stoeva 10/   | 18/12         |
|       |   |   |               |
| Photo | <u>)S</u>   |   |               |
|       |   |   |               |

Status: Y N U

## Seismic Walkdown Checklist (SWC)

| Equipment ID No.:      | 1-NPS-111                                    | <br>  |
|------------------------|--|-------|
| Equipment Class:       | (18) Instruments on Racks                    | <br>- |
| Equipment Description: | REACTOR VESSEL TRAIN 'B' WIDE RANGE PRESSURE | <br>  |



P9100264



C-248

Status: Y N U

# Seismic Walkdown Checklist (SWC)

| Equipment Class:(18) Instruments on Racks                           |      | Equipment ID No.:  | 1-NPS-111                 |                    |         |  |  |
|---|------|--------------------|---------------------------|--------------------|---------|--|--|
|   |      | Equipment Class:   | (18) Instruments on Racks | .101<br>101<br>101 | 3       | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 |  |
| Equipment Description: REACTOR VESSEL TRAIN 'B' WIDE RANGE PRESSURE | Equi | pment Description: | REACTOR VESSEL TRAIN 'B'  | WIDE RANG          | E PRESS | URE                                      |  |





Status: Y N U

## Seismic Walkdown Checklist (SWC)

| Equipment ID No.:      | 1-NPS-111                                    | di.   |
|------------------------|--|-------|
| Equipment Class:       | (18) Instruments on Racks                    |       |
| Equipment Description: | REACTOR VESSEL TRAIN 'B' WIDE RANGE PRESSURE | ing i |





P9100269

Status: Y N U

| Seismic Walkdown Checklist (SWC)   |  |
|--|--|
| Equipment ID No.: 1-OME-150-AB   | icitare<br>1911  |
| Equipment Class: (17) Engine-Generators  |  |
| Equipment Description: AB EMERGENCY DIESEL GENERATOR   |  |
| Project: DC Cook 1 SWEL  |  |
| Location (Bldg, Elev, Room/Area): _AB1, 587.00 ft, 121   |  |
| Manufacturer/Model:  | n ni sa wasan sa sana ni na na sa na na sa |
| Instructions for Completing Checklist<br>This checklist may be used to document the results of the Seismic Walkdown of an item of equip<br>SWEL. The space below each of the following questions may be used to record the results of jue<br>findings. Additional space is provided at the end of this checklist for documenting other comment | ment on the<br>dgments and<br>ts.  |
| Anchorage  |  |
| <ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50%<br/>of SWEL items requiring such verification)?<br/>SQUG 1-OME-150-AB REV0</li> </ol>  | Yes  |
|  |  |
| 2. Is the anchorage free of bent, broken, missing or loose hardware?   | Yes  |
|  |  |
| 3. Is the anchorage free of corrosion that is more than mild surface oxidation?  | Yes  |
|  |  |
|  |  |
| 4. Is the anchorage free of visible cracks in the concrete near the anchors?   | Yes  |
| Grout pad OK concrete ok   |  |
|  |  |
| <ol> <li>Is the anchorage configuration consistent with plant documentation? (Note:<br/>This question only applies if the item is one of the 50% for which an anchorage<br/>configuration verification is required.)</li> </ol>  | Yes  |
|  |  |
| 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?  | Yes  |
|  |  |
|  |  |

| Seismic \  | Walkdown Checklist                            | (SWC)  |                                     |                          |  | Status:  | YN U  |
|------------|---|--|-------------------------------------|--------------------------|--|--|---|
|            | Equipment ID No.:                             | 1-OME-150-AB                                   |                                     |                          |  |  |   |
|            | Equipment Class:                              | (17) Engine-Gene                               | erators                             |                          |  |  |   |
| Eq         | uipment Description:                          | AB EMERGENCY                                   | DIESEL GEN                          | ERATOR                   |  | 5  |   |
| 7. A       | re soft targets free fro                      | m impact by nearby                             | y equipment or                      | structures?              |  | -  | Yes   |
|            | (Secondary smaller bo                         | olts - some corrosic                           | on)                                 |                          |  |  |   |
|            |   |  |                                     |                          |  |  |   |
|            |   |  |                                     |                          |  |  |   |
| 8. A<br>m  | re overhead equipmen<br>asonry block walls no | nt, distribution syste<br>t likely to collapse | ems, ceiling tile<br>onto the equip | es and lighting<br>ment? | , and                                    |  | Yes   |
|            |   |  |                                     |                          |  |  |   |
|            |   |  |                                     |                          |  |  |   |
| 9. D       | o attached lines have                         | adequate flexibility                           | to avoid dama                       | age?                     |  |  | Yes   |
|            |   | 1921. :<br>2. :                                |                                     |                          |  |  |   |
|            |   |  |                                     |                          |  |  |   |
|            |   |  |                                     |                          |  |  |   |
| 10. B      | ased on the above se                          | ismic interaction ev                           | aluations, is e                     | quipment free            | of                                       |  | Yes   |
| p          | otentially adverse seis                       | mic interaction effe                           | ects?                               |                          |  |  |   |
|            |   |  |                                     |                          |  |  |   |
|            |   |  |                                     |                          |  |  |   |
| Other Ad   | verse Conditions                              |  |                                     |                          | <del>998-2007 - 27 28 28 199</del><br>11 |  |   |
| 11. H<br>a | ave you looked for an dversely affect the saf | d found no adverse<br>ety functions of the     | e seismic cond<br>equipment?        | itions that coul         | d  |  | Yes   |
|            |   |  |                                     |                          |  |  |   |
|            |   |  |                                     |                          |  |  |   |
| Commen     | <u>ts</u>                                     |  |                                     |                          |  |  |   |
|            |   |  |                                     |                          |  | ali an<br>Distance de la companya de la company | ii 4 i<br>Linear Caraolta an Anna Anna Anna Anna Anna Anna Anna |
| Evaluated  | i by: Joney J                                 | . and Ge                                       | orge G Thoma                        | is                       | _ Date:                                  | 10/18/12   |   |
|            | (M)   | 0  |                                     |                          |  |  |   |
|            | alu   | wy. Neda                                       | Stoeva                              |                          |  | 10/18/12   |   |
|            |   |  |                                     |                          | ······································   | ец<br>Е.   | j.  |

Photos

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

| Equipment ID No.: | 1-OME-150-AB           |  |  |  |
|-------------------|------------------------|--|--|--|
| Equipment Class:  | (17) Engine-Generators |  |  |  |

\_q...p.....



P9130284



P9130286





P9130285





Status: Y N U

## Seismic Walkdown Checklist (SWC)

|        | Equipment ID No.:      | 1-OME-150-AB                  | ĺ. | and a second second | je. |  |
|--------|------------------------|-------------------------------|----|---------------------|-----|--|
|        | Equipment Class:       | (17) Engine-Generators        |    |                     |     |  |
| E      | Equipment Description: | AB EMERGENCY DIESEL GENERATOR |    |                     |     |  |
| P91302 | 288                    | P9130289                      |    | <br>9 ji            |     |  |





P9130290





Status: Y N U

#### Seismic Walkdown Checklist (SWC)

| Equipment ID No.:      | 1-OME-150-AB           |  |  |  |
|------------------------|------------------------|--|--|--|
| Equipment Class:       | (17) Engine-Generators |  |  |  |
| Equipment Description: | AB EMERGENCY DIES      |  |  |  |



P9130294



P9130296





P9130295





Status: Y N U

| Eq           | uipment ID No.:  | 1-OME-1   | 50-AB   |         |     |      |     |    |  |     | <br> |              |
|--------------|------------------|-----------|---------|---------|-----|------|-----|----|--|-----|------|--------------|
| E            | quipment Class:  | (17) Engi | ne-Gene | erators | 5   |      |     |    |  |     |      | <sup>2</sup> |
| Equipm       | ent Description: | AB EMER   | RGENCY  |         | SEL | GENE | RAT | OR |  |     |      |              |
| <br>P9130298 |                  |           |         |         | P9' | 3029 | 9   |    |  |     |      |              |
|              |                  |           |         |         |     |      |     |    |  | * 4 |      |              |
|              |                  |           |         |         |     |      |     |    |  |     |      |              |
|              |                  |           |         |         |     |      |     |    |  |     |      |              |
|              |                  |           |         |         |     |      |     |    |  |     |      |              |
|              |                  |           |         |         |     |      |     |    |  |     |      |              |
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|              |                  |           |         |         |     |      |     |    |  |     |      |              |
|              |                  |           |         |         |     |      |     |    |  |     |      |              |
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|              |                  |           |         |         |     |      |     |    |  |     |      |              |
|              |                  |           |         |         |     |      |     |    |  |     |      |              |
|              |                  |           |         |         |     |      |     |    |  |     |      |              |
|              |                  |           |         |         |     |      |     |    |  |     |      |              |
|              |                  |           |         |         |     |      |     |    |  |     |      |              |
|              |                  |           |         |         |     |      |     |    |  |     |      |              |
|              |                  |           |         |         |     |      |     |    |  |     |      |              |
|              |                  |           |         |         |     |      |     |    |  |     |      |              |
|              |                  |           |         |         |     |      |     |    |  |     |      |              |
|              |                  |           |         |         |     |      |     |    |  |     |      |              |
|              |                  |           |         |         |     |      |     |    |  |     |      |              |
|              |                  |           |         |         |     |      |     |    |  |     |      |              |
|              |                  |           |         |         |     |      |     |    |  |     |      |              |
|              |                  |           |         |         |     |      |     |    |  |     |      |              |
|              |                  |           |         |         |     |      |     |    |  |     |      | C-2          |
|              |                  |           |         |         |     |      |     |    |  |     |      |              |

| Status: V N  |
|--|
| Seismic Walkdown Checklist (SWC)   |
| Equipment ID No : 1-PP-10W   |
| Equipment Class: (5) Horizontal Pumps  |
| Equipment Description: WEST COMPONENT COOLING WATER PLIMP  |
| Project: DC Cock 1 SWEI  |
|  |
| Location (Bidg, Elev, Room/Area). Ab2, 609.00 it, 609  |
| Instructions for Completing Checklist  |
| This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. |
| Anchorage  |
| <ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% No<br/>of SWEL items requiring such verification)?</li> </ol>  |
|  |
|  |
| 2. Is the anchorage free of bent, broken, missing or loose hardware? Yes   |
|  |
|  |
| 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Yes  |
|  |
|  |
| 4. Is the anchorage free of visible cracks in the concrete near the anchors? Yes   |
|  |
|  |
| 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable   |
| configuration verification is required.)   |
|  |
| 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?  |
|  |
|  |
| Interaction Effects  |

| Status:   | YN U |
|---|------|
| Seismic Walkdown Checklist (SWC)  |      |
| Equipment ID No.: 1-PP-10W  |      |
| Equipment Class: (5) Horizontal Pumps   |      |
| Equipment Description: WEST COMPONENT COOLING WATER PUMP  |      |
| <ol> <li>Are soft targets free from impact by nearby equipment or structures?</li> </ol>  | Yes  |
|   |      |
|   |      |
|   |      |
| 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?<br><i>Fire protection piping well supported, rod hung small fire lines will not collapse, and are depressurized</i> | Yes  |
|   |      |
| 9. Do attached lines have adequate flexibility to avoid damage?   | Yes  |
|   |      |
|   |      |
| 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?   | Yes  |
|   |      |
|   |      |
| Other Adverse Conditions         11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?   | Yes  |
|   |      |
| Comments  |      |
| Evaluated by:   |      |
| Munp.<br>Neda Stoeva 10/18/12   |      |
|   |      |

**Photos** 

Status: Y N U

## Seismic Walkdown Checklist (SWC)

|     | Equipment ID No.:   | 1-PP-10W                          |                |   |  |
|-----|---------------------|-----------------------------------|----------------|---|--|
|     | Equipment Class:    | (5) Horizontal Pumps              |                |   |  |
| Equ | ipment Description: | WEST COMPONENT COOLING WATER PUMP |                |   |  |
|     |                     |                                   | STATISTICS / Y | A |  |



P9100082



P9100084

P9100083



| Seismie Walkdown Chacklist (SWC)  | itatus: Y N U  |
|---|--|
| Seismic waikdown Checklist (SWC)  |  |
| Equipment ID No.: 1-PP-26S  |  |
| Equipment Class: (5) Horizontal Pumps   | ar<br>An An A                     |
| Equipment Description: SOUTH SAFETY INJECTION PUMP  |  |
| Project: DC Cook 1 SWEL   | 112<br>114<br>114<br>114<br>114<br>114<br>114<br>114<br>114<br>114 |
| Location (Bldg, Elev, Room/Area): AB1, 587.00 ft, 43  |  |
| Manufacturer/Model:   |  |
| Instructions for Completing Checklist   |  |
| This checklist may be used to document the results of the Seismic Walkdown of an item of equil SWEL. The space below each of the following questions may be used to record the results of j findings. Additional space is provided at the end of this checklist for documenting other comme | ipment on the<br>udgments and<br>ents.                             |
| Anchorage   |  |
| <ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50%<br/>of SWEL items requiring such verification)?</li> </ol>  | No   |
|   |  |
| 2. Is the anchorage free of bent, broken, missing or loose hardware?  | Yes  |
| Thread engagement on 2nd from end bolt on right side of skid, and 3rd from front (middle on left side of skid). 2 bolts flush with nut - Identified during SQUG - SEWS show it  |  |
| 3. Is the anchorage free of corrosion that is more than mild surface oxidation?   | Yes  |
|   |  |
|   |  |
| 4. Is the anchorage free of visible cracks in the concrete near the anchors?  | Yes  |
|   |  |
|   |  |
| <ol> <li>Is the anchorage configuration consistent with plant documentation? (Note:<br/>This question only applies if the item is one of the 50% for which an anchorage<br/>configuration verification is required.)</li> </ol>   | Not Applicable   |
|   |  |
|   |  |
| 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?   | Yes  |
|   |  |
|   |  |
| Interaction Effects   |  |

C-260

|   | wn Checklist (SWC)   |             |
|---|--|-------------|
|   |  |             |
| Equip   | ment ID No.: 1-PP-265  |             |
| Equi  | pment Class:   |             |
| Equipment   | t Description: SOUTH SAFETY INJECTION PUMP   | Vea         |
| 7. Are soit t   | argets free from impact by hearby equipment of structures?   | Tes         |
|   |  |             |
|   |  |             |
| 8. Are overl<br>masonry<br><i>Block w</i>                                 | nead equipment, distribution systems, ceiling tiles and lighting, and<br>block walls not likely to collapse onto the equipment?<br><i>vall with grate - OK per DWG 12-4026, Wall W-9</i>   | Yes         |
|   |  |             |
|   |  |             |
| 9. Do attach  | ned lines have adequate flexibility to avoid damage?   | Yes         |
|   |  |             |
|   |  |             |
| 10. Based or potentiall   | the above seismic interaction evaluations, is equipment free of<br>y adverse seismic interaction effects?  | Yes         |
|   |  |             |
|   |  |             |
|   |  |             |
| Other Adverse (   | <u>Conditions</u>  |             |
| Other Adverse (<br>11. Have you<br>adversely                              | <u>Conditions</u><br>I looked for and found no adverse seismic conditions that could<br>y affect the safety functions of the equipment?  | Yes         |
| Other Adverse C<br>11. Have you<br>adversely                              | <u>Conditions</u><br>J looked for and found no adverse seismic conditions that could<br>y affect the safety functions of the equipment?  | Yes         |
| Other Adverse C<br>11. Have you<br>adversely<br>Comments                  | Conditions<br>J looked for and found no adverse seismic conditions that could<br>y affect the safety functions of the equipment?   | Yes         |
| Other Adverse C<br>11. Have you<br>adversely<br>Comments<br>Evaluated by: | Conditions         Jooked for and found no adverse seismic conditions that could         y affect the safety functions of the equipment?         Market | Yes<br>8/12 |
| Other Adverse C<br>11. Have you<br>adversely<br>Comments<br>Evaluated by: | Conditions         J looked for and found no adverse seismic conditions that could         y affect the safety functions of the equipment?   | Yes<br>8/12 |

**Photos** 

Status: Y N U

## Seismic Walkdown Checklist (SWC)



Status: Y N U

## Seismic Walkdown Checklist (SWC)

| Equipment ID No.:      | 1-PP-26S                    |  |  |
|------------------------|-----------------------------|--|--|
| Equipment Class:       | (5) Horizontal Pumps        |  |  |
| Equipment Description: | SOUTH SAFETY INJECTION PUMP |  |  |
|                        | 2012/09/18                  |  |  |
| P9180908               |                             |  |  |
| P9180910               | 2012/09/16<br>P9180911      |  |  |
|                        | 2012/09/18                  |  |  |
|                        | C-263                       |  |  |

Status: Y N U

C-264

| Seismic Walkdown Checklist | (SWC)                       |  |                 |  |
|----------------------------|-----------------------------|--|-----------------|--|
| Equipment ID No.:          | 1-PP-26S                    |  |                 |  |
| Equipment Class:           | (5) Horizontal Pumps        |  |                 |  |
| Equipment Description:     | SOUTH SAFETY INJECTION PUMP |  | 100<br>10<br>10 |  |
| P9180912                   | P9180913                    |  |                 |  |
|                            |                             |  |                 |  |

|  | Status: Y N U                               |
|--|---|
| Seismic Walkdown Checklist (SWC)   |   |
| Equipment ID No.: 1-PP-35W   |   |
| Equipment Class: (6) Vertical Pumps  |   |
| Equipment Description: WEST RESIDUAL HEAT REMOVAL PUMP   |   |
| Project: DC Cook 1 SWEL  |   |
| Location (Bldg, Elev, Room/Area): _AB1, 573.00 ft, 55  | ्रम् वर्षे ()<br>हेव्र                      |
| Manufacturer/Model:  |   |
| Instructions for Completing Checklist<br>This checklist may be used to document the results of the Seismic Walkdown of an item of ec<br>SWEL. The space below each of the following questions may be used to record the results of<br>findings. Additional space is provided at the end of this checklist for documenting other comm | uipment on the<br>f judgments and<br>nents. |
| Anchorage  |   |
| <ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50%<br/>of SWEL items requiring such verification)?</li> </ol>   | No  |
|  |   |
|  |   |
| 2. Is the anchorage free of bent, broken, missing or loose hardware?   | Yes   |
| Paint peeling off - very minor oxidation   |   |
|  |   |
| 3. Is the anchorage free of corrosion that is more than mild surface oxidation?  | Yes   |
|  |   |
| 4. Is the anchorage free of visible cracks in the concrete near the anchors?   | Yes   |
|  |   |
| <ol> <li>Is the anchorage configuration consistent with plant documentation? (Note:<br/>This question only applies if the item is one of the 50% for which an anchorage<br/>configuration verification is required.)</li> </ol>  | Not Applicable                              |
|  |   |
| 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?  | Yes   |
|  |   |
|  |   |

Interaction Effects

|   | Status: Y N U               |
|---|-----------------------------|
| Seismic Walkdown Checklist (SWC)  |                             |
| Equipment ID No.: 1-PP-35W  |                             |
| Equipment Class: (6) Vertical Pumps   |                             |
| Equipment Description: WEST RESIDUAL HEAT REMOVAL PUMP  | 929<br>929<br>              |
| 7. Are soft targets free from impact by nearby equipment or structures?   | Yes                         |
|   |                             |
|   |                             |
|   | 1970101 1970101<br>188 1991 |
| <ol> <li>Are overhead equipment, distribution systems, ceiling tiles and lighting, and<br/>masonry block walls not likely to collapse onto the equipment?<br/>Block wall - reinforced - OK per DWG 12-4025, Wall W-4</li> </ol> | Yes                         |
|   |                             |
|   |                             |
| 9. Do attached lines have adequate flexibility to avoid damage?   | Yes                         |
|   |                             |
|   |                             |
| 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?   | Yes                         |
|   |                             |
|   |                             |
| Other Adverse Canditions  |                             |
| <ul> <li>11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?</li> </ul>  | Yes                         |
|   |                             |
|   |                             |
| Comments  |                             |
| Evaluated by: M. J. George G Thomas Date: 10  | )/18/12                     |
| Alump.  |                             |
| Neda Stoeva 10  | //18/12                     |

**Photos** 

Status: Y N U

| Seismic | Walkdown | Checklist | (SWC) |
|---------|----------|-----------|-------|
|         |          |           |       |

