Seismic Walkdown Checklist (SWC)

Equipment ID No. 2BE205 Equip. Class ¹² (19) Vertical Tanks o	r Heat Exchangers
Equipment Description 2B Residual Heat Removal Heat Exchanger	
Location: Bldg. <u>Reactor</u> Floor El. <u>177</u> Room, Area <u>Room 174</u> <u>Enclosure</u>	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record t findings. Additional space is provided at the end of this checklist for documenting	an item of equipment on the he results of judgments and g other comments.
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	YX ND
2. Is the anchorage free of bent, broken, missing or loose hardware?	YX NO UO N/AO
3. Is the anchorage free of corrosion that is more than mild surface oxidation? , Mild SURACE COrrosion	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	
 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.) Matches Dwg. # 340-H-VC -00102; Rev. D 	Y)X N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	עע דע

¹² Enter the equipment class name from Appendix B: Classes of Equipment.

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Equipment ID No. <u>2BE205</u> Equip. Class ¹² (19) Vertical Tanks	or Heat Exchangers
Equipment Description 2B Residual Heat Removal Heat Exchanger	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? No soft targets	Y X NO UO N/AO
 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? No overheads 	Y⊠(N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	עלצ 🖂 צ
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	צא אם עם
<u>Comments (</u> Additional pages may be added as necessary)	
N/A	
Evaluated by: Ganny Wiggin	Date: 4/7/2012
steers	8/7/2012



Equipment ID: 2BE205











Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>2BS252</u> Equip. Class ¹² (19) Vertical Tanks or Heat Exchangers
Equipment Description PCIG/ADS Nitrogen Bottles
Location: Bldg. <u>Reactor</u> Floor El. <u>217</u> Room, Area <u>Room 370E</u>
Manufacturer, Model, Etc. (optional but recommended)
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 the anchorage configuration verification required (i.e., is the item one YX N□ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? $Y \times N \square U \square N/A \square$
3. Is the anchorage free of corrosion that is more than mild surface YXN□ U□ N/A□ oxidation?
4. Is the anchorage free of visible cracks in the concrete near the anchors? $Y \times N \square U \square N/A \square$
 5. Is the anchorage configuration consistent with plant documentation? YX N□ U□ N/A□ (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Motches Owp. # 8031-C-869, Sheet 2, Rev. 5
 Based on the above anchorage evaluations, is the anchorage free of YX N□ U□ potentially adverse seismic conditions?

¹² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 2

Equipment ID No. 2BS252 Equip. Class ¹² (19) Vertical Tanks of	or Heat Exchangers
Equipment Description PCIG/ADS Nitrogen Bottles	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? No 5584 targets	YX NO UO N/AO
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? • Coble Grays adequately supported	YX N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	YX NO UO N/AO
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	צא חם עם
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? . RP storage box staged next to bottle rock deemed credible bot not significant throat to	YX NO UD is unrestrained; SSCs
Comments (Additional pages may be added as necessary)	
N/A	
Evaluated by: James Wregen	Date: 8/6/2012
Aling	8/6/2012









Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>2BS921</u> Equip. Class ¹² (18) Control Panels &	k Cabinets
Equipment Description Main Steam Relief Valve Position Transmitter Pre-Amp	
Location: Bldg. <u>Reactor</u> Floor El. <u>253</u> Room, Area <u>Room 475W</u> <u>Enclosure</u>	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record t findings. Additional space is provided at the end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ ŊX
2. Is the anchorage free of bent, broken, missing or loose hardware?	YX NO UO N/AO
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	א בט בא אַצ
4. Is the anchorage free of visible cracks in the concrete near the anchors?	
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.)	Yo no uo n/a X
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	צא חם עם

¹² Enter the equipment class name from Appendix B: Classes of Equipment.

Equipment ID No. <u>2BS921</u> Equip. Class¹² (18) Control Panels & Cabinets Equipment Description Main Steam Relief Valve Position Transmitter Pre-Amp **Interaction Effects** YX NO UO N/AO 7. Are soft targets free from impact by nearby equipment or structures? No soft darpets Are overhead equipment, distribution systems, coming incoment? and masonry block walls not likely to collapse onto the equipment? Large bore piping and dost overhead rigidly mounted well supported 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, YX N UNA YX NO UO N/AO 9. Do attached lines have adequate flexibility to avoid damage? YND UD 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? **Other Adverse Conditions** YX NO UO 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary) CONCORA -rogue Date: <u>8/6/2017</u> 8/6/2012 Jemis Wiggin, Evaluated by:





Seismic Walkdown Checklist (SWC)

Equipment ID No. 2BT528 _ Equip. Class¹² (19) Vertical Tanks or Heat Exchangers

Equipment Description Diesel Generator Day Tank

Location: Bldg. Diesel Floor El. 217 Room, Area Room 316. Generator Building

Manufacturer, Model, Etc. (optional but recommended)

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 the anchorage configuration verification required (i.e., is the item one of the 50% 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?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)

YA NO UO NAO

YTEND UD N/AD

YIND UD N/AD

W/ Prws. 11873649, Rev. 6BR. $\frac{MO}{9/25/12}$ tions, is the anchorage free of YAL NO UD Varified Consistent

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

¹² Enter the equipment class name from Appendix B: Classes of Equipment.

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Equip. Class¹² (19) Vertical Tanks or Heat Exchangers Equipment ID No. 2BT528 Equipment Description Diesel Generator Day Tank **Interaction Effects** YAND UD N/AD 7. Are soft targets free from impact by nearby equipment or structures? No soft targets identified. 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, YO NO UO N/AO and masonry block walls not likely to collapse onto the equipment? Lighting is sucore. YND UD N/AD 9. Do attached lines have adequate flexibility to avoid damage? YAND UD 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Scattolding is secore. **Other Adverse Conditions** YA NO UD 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? **Comments** (Additional pages may be added as necessary) Date: 8/9/12 8/9/12 Evaluated by:



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>2BV208</u> Equip. Class ¹² (08) Fans & Air Han	dlers
Equipment Description <u>RCIC Pump & Turbine Room Cooler</u>	
Location: Bldg. <u>Reactor</u> Floor El. <u>177</u> Room, Area <u>Room 179</u> <u>Enclosure</u>	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record a findings. Additional space is provided at the end of this checklist for documenting	an item of equipment on the the results of judgments and ag other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	YX ND
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?	אע םט םאיאם צ
4. Is the anchorage free of visible cracks in the concrete near the anchors? . Mounted to structural steel > steel on chored to	YAND UD N/AD Crocksfree concrede
 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.) Moteores Dwg, # 8031 - M-123 - 4 - (1) -1, Rev. 1918 	Y∑X N⊡ U⊡ N/A⊡ SR
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	צא חם עם

¹² Enter the equipment class name from Appendix B: Classes of Equipment.

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Equipment ID No. <u>2BV208</u> Equip. Class ¹² (08) Fans & Air Handlers	
Equipment Description <u>RCIC Pump & Turbine Room Cooler</u>	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? No soft targets	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? No overheads	
9. Do attached lines have adequate flexibility to avoid damage?	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YX NO UO
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX NO UO
<u>Comments</u> (Additional pages may be added as necessary)	
N/A	
Evaluated by: Jamo Wiggin	Date: 4/7/2012
Aliz	8/7/2012

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Equipment ID: 2BV208





Seismic Walkdown Checklist (SWC)

2BV209 Equipment ID No. <u>2AV208-</u> Equip. Class ¹² (08) Fans & Air Han HPCI	dlers
Equipment Description <u>RCIC Pump & Turbine Room Cooler</u>	
Location: Bldg. <u>Reactor</u> Floor El. <u>177</u> Room, Area <u>Room 179-</u>	80
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting the space is provided at the end of the space space.	an item of equipment on the the results of judgments and og other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	YX ND
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?	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	
 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.) Metches Dwg. # 8031-M-123-4-(1)-1, Rev. 1913 	YA UU N/AU
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	ע בא בע

¹² Enter the equipment class name from Appendix B: Classes of Equipment.

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Sheet 2 of 2

HPCI Equipment Description <u>RCIC Pump & Turbine Room Cooler</u>	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? No GOH targets	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? No overheads	YX NO UO N/AO
9. Do attached lines have adequate flexibility to avoid damage?	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YX NO UO
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	צא חם עם
Comments (Additional pages may be added as necessary)	
N/A	
	Date: 6/7/2012
Evaluated by: James Wiggin	



Equipment ID: 2BV209



Equipment ID: 2BV209



Equipment ID: 2BV209







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Equipment ID No. <u>2CD101</u> Equip. Class¹² (13) Batteries & Racks Equipment Description 125 VDC Battery Floor El. 217 Room, Area Room 361 Location: Bldg. Control Structure Manufacturer, Model, Etc. (optional but recommended) **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 the anchorage configuration verification required (i.e., is the item one $Y \square N \square$ of the 50% of SWEL items requiring such verification)? YE NO UO N/AO 2. Is the anchorage free of bent, broken, missing or loose hardware? Anchovance is in good condition. YEND UD NAD 3. Is the anchorage free of corrosion that is more than mild surface oxidation? YA NO UO N/AO 4. Is the anchorage free of visible cracks in the concrete near the anchors? NO UO N/AO 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.) Ver fick contintent Dwg. M-8052, Rev. 6 BR. MO 9/25/12 6. Based on the above anchorage evaluations, is the anchorage free of YE NO UO potentially adverse seismic conditions?

¹² Enter the equipment class name from Appendix B: Classes of Equipment.

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Seismic Walkdown Checklist (SWC)

Sheet 1 of 2 Status: (Y) N U

Equipment ID No. <u>2CD101</u> Equip. Class¹² (13) Batteries & Racks Equipment Description 125 VDC Battery **Interaction Effects** YAND UD NAD 7. Are soft targets free from impact by nearby equipment or structures? No credible IL/I issues identified 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y. N UNA 8. Are overhead equipment, distribution systems, centing ties and igning, and masonry block walls not likely to collapse onto the equipment?
0 verhead lighting has no open S-hoots and cases on lights poet a over battery is secure.
Need to verify S4 W block walls. Block walls are acceptable based
9. Do attached lines have adequate flexibility to avoid damage? MO 9/2 YEND UD 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? **Other Adverse Conditions** YEND UD 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary) (If Small gap identified (less than 18") between some batteries. styrotoan for spaces were in place and judged to be sufficient to absorb impacts. no issue. _____ Date: ___ Evaluated by:



Equipment ID: 2CD101

