

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0302-21A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, NO. BNK SDV VNT - ASSY - 1A SDV INBD VENT VLV

Project: Quad Cities 1 SWEL

Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL

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% of SWEL items requiring such verification)? 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: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Not Applicable
  
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Yes

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Yes

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0302-21A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, NO. BNK SDV VNT - ASSY - 1A SDV INBD VENT VLV

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  
*Overhead light fixture judged to be acceptable.* 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**

\*\*\*\*\*

Seismic Walkdown Team: D. Carter & J. Griffith - 8/22/2012

See North CRD Bank area walk-by for further notes.

Evaluated by:

David Carter David Carter

Date: 10/4/2012

James D. Griffith James Griffith

10/4/2012



Status:  Y  N  U

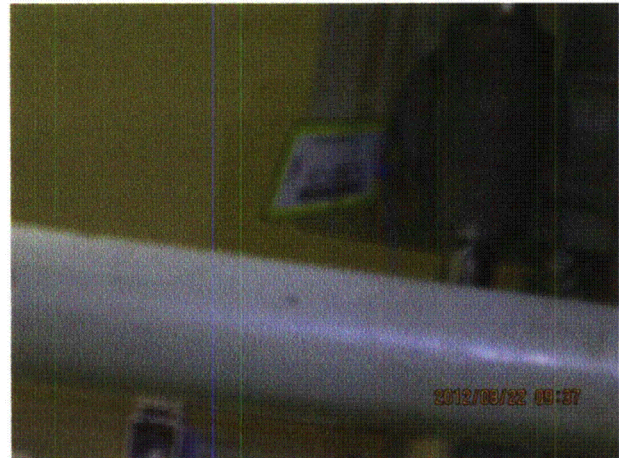
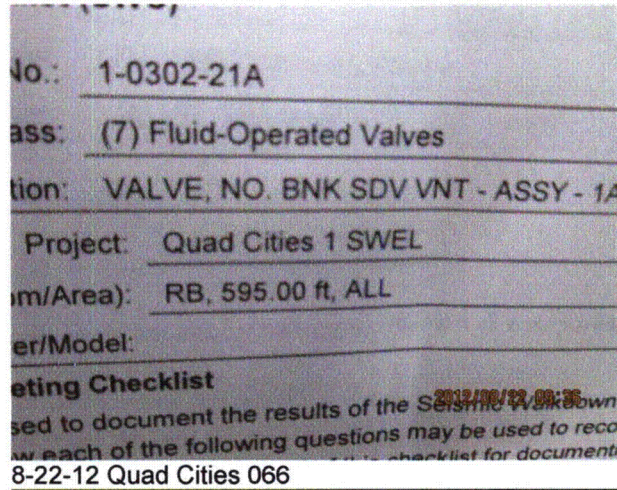
**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0302-21A

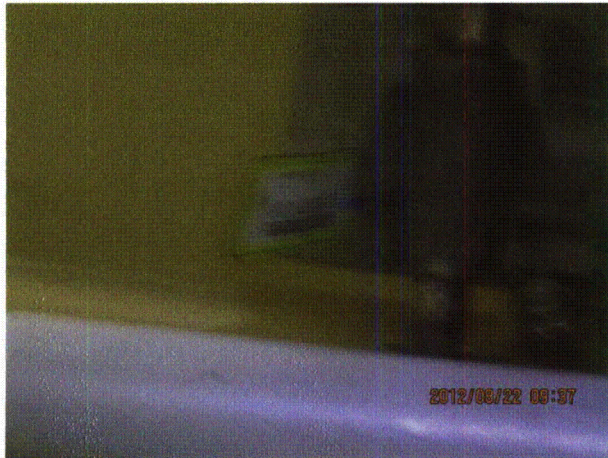
Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, NO. BNK SDV VNT - ASSY - 1A SDV INBD VENT VLV

**Photos**



8-22-12 Quad Cities 067



8-22-12 Quad Cities 068



8-22-12 Quad Cities 069

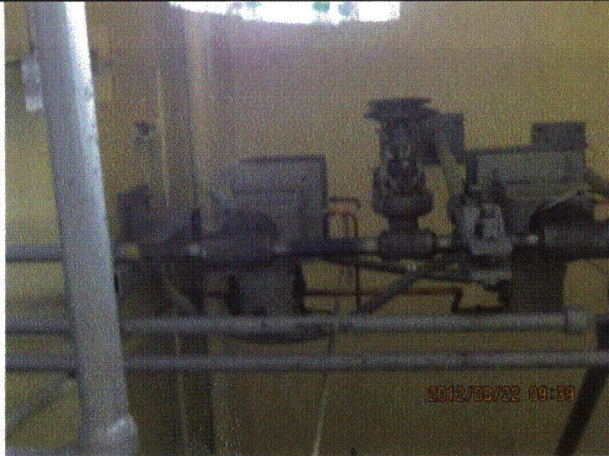
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**Seismic Walkdown Checklist (SWC)**

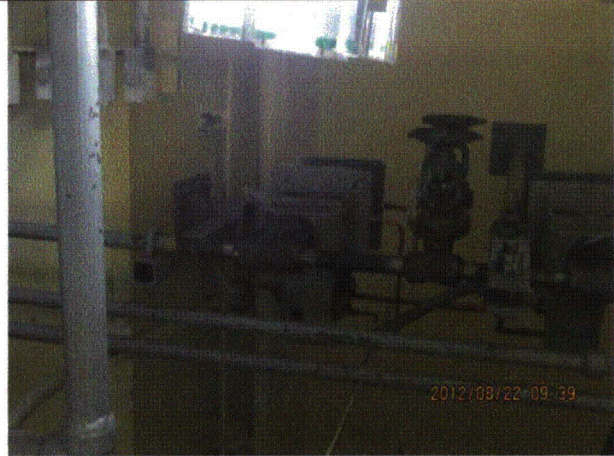
Equipment ID No.: 1-0302-21A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, NO. BNK SDV VNT - ASSY - 1A SDV INBD VENT VLV



8-22-12 Quad Cities 070



8-22-12 Quad Cities 071



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0302-22A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, NO. BNK SDV DRN - 1A SDV INBD DRN VLV

Project: Quad Cities 1 SWEL

Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL

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% of SWEL items requiring such verification)?                                                                      | 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: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) | Not Applicable |
| 6. | Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?                                                                                          | Yes            |

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0302-22A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, NO. BNK SDV DRN - 1A SDV INBD DRN VLV

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Yes

*Flexible conduits in contact with handrail. Judged to be acceptable.*

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Yes

*Overhead light fixtures judged to be acceptable.*

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**

\*\*\*\*\*

Seismic Walkdown Team: D. Carter & J. Griffith - 8/24/2012

Evaluated by:  David Carter Date: 10/4/2012

 James Griffith 10/4/2012

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0302-22A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, NO. BNK SDV DRN - 1A SDV INBD DRN VLV

**Photos**



Quad Cities 062



Quad Cities 063



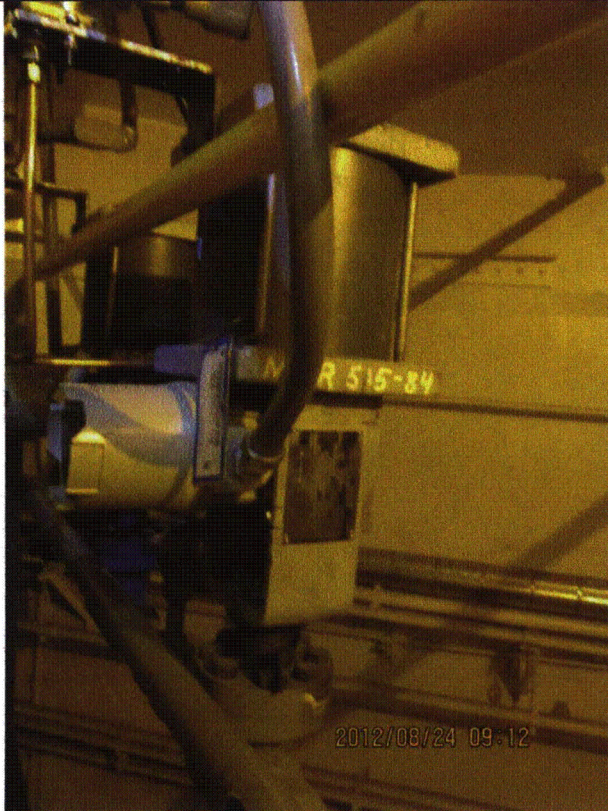
Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0302-22A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, NO. BNK SDV DRN - 1A SDV INBD DRN VLV



Quad Cities 064



Quad Cities 065



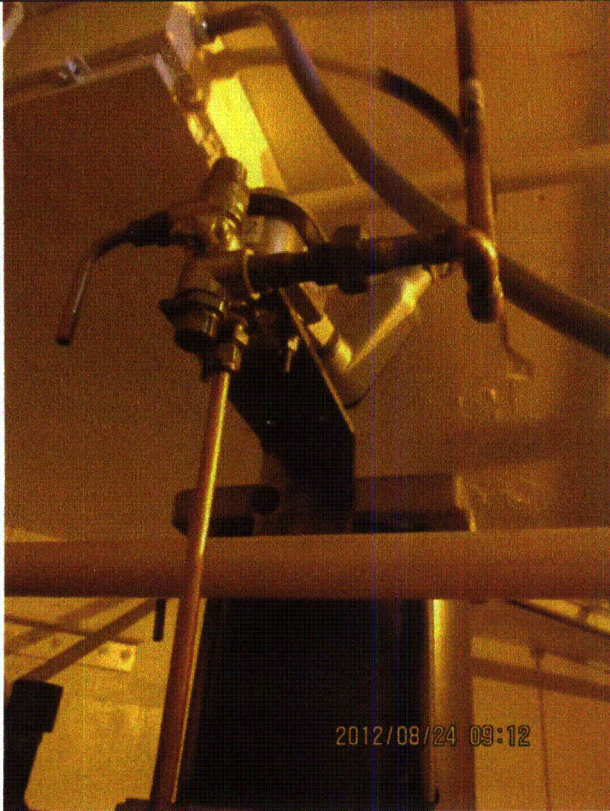
Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0302-22A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, NO. BNK SDV DRN - 1A SDV INBD DRN VLV



Quad Cities 066



Quad Cities 067

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-125-26-31

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (26-31 G-8 (South))

Project: Quad Cities 1 SWEL

Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL

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% of SWEL items requiring such verification)?                                                                                                      | 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: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)                                 | Not Applicable |
| 6. | Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?<br><i>The scram water accumulator is an inline component that is adequately restrained to the CRD/HCU support frame.</i> | Yes            |

**Interaction Effects**

- |    |                                                                      |     |
|----|----------------------------------------------------------------------|-----|
| 7. | Are soft targets free from impact by nearby equipment or structures? | Yes |
|----|----------------------------------------------------------------------|-----|



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-125-26-31

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (26-31 G-8 (South))

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? 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

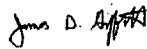
**Other Adverse Conditions**

11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Yes  
*Adjacent flexible pipes in contact judged to be acceptable.*

**Comments**

Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012

Evaluated by:  David Carter Date: 10/4/2012

 James D. Griffith 10/4/2012

Status:  Y  N  U

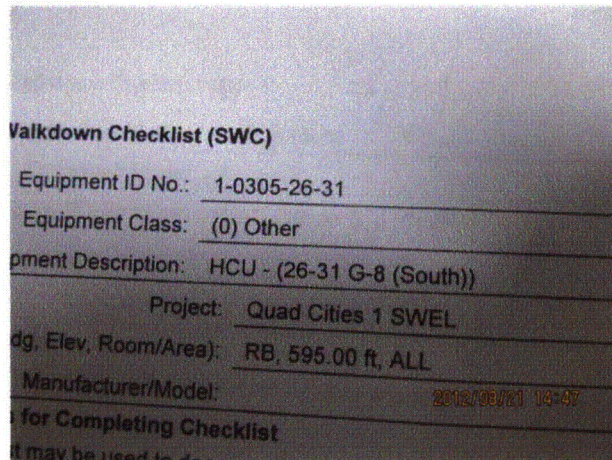
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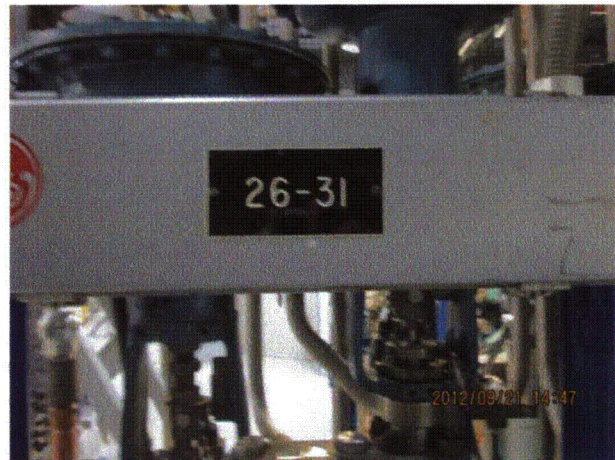
Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (26-31 G-8 (South))

**Photos**



8-21-12 Quad Cities 240



8-21-12 Quad Cities 241



8-21-12 Quad Cities 242



8-21-12 Quad Cities 243



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

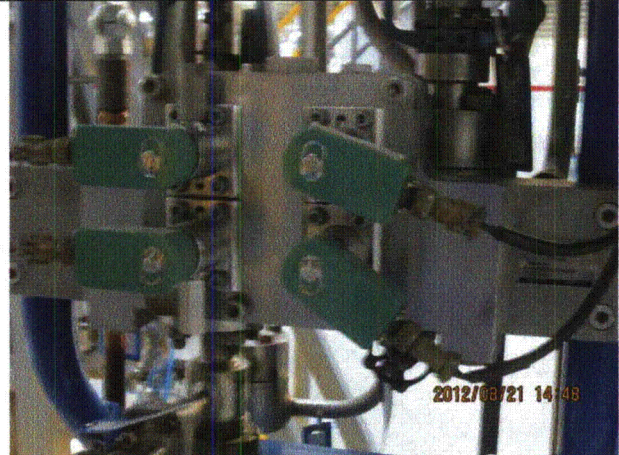
Equipment ID No.: 1-0305-125-26-31

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (26-31 G-8 (South))



8-21-12 Quad Cities 244



8-21-12 Quad Cities 245

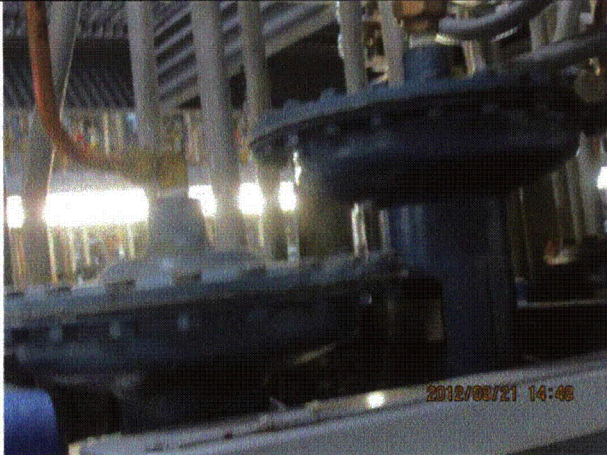
Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-125-26-31

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (26-31 G-8 (South))



8-21-12 Quad Cities 246



8-21-12 Quad Cities 247



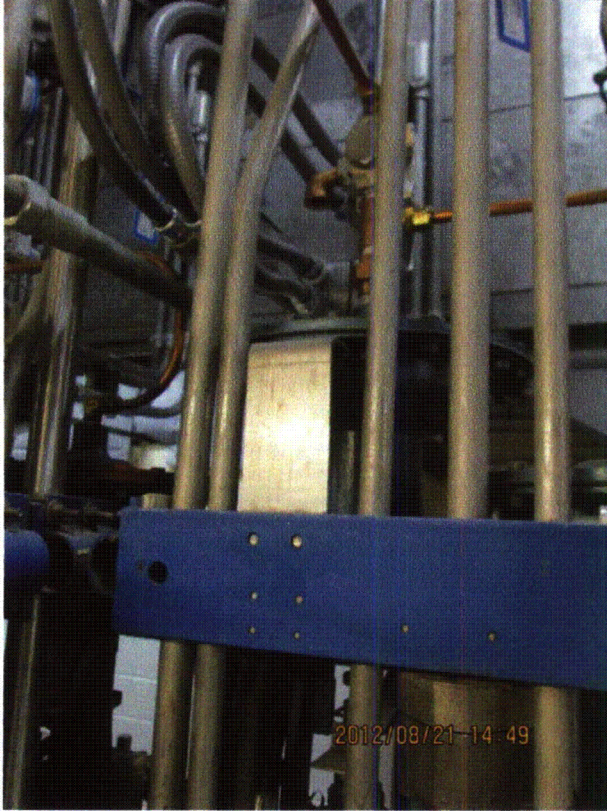
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**Seismic Walkdown Checklist (SWC)**

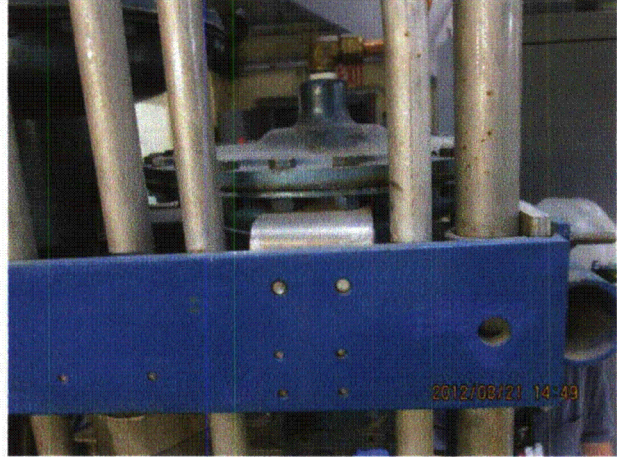
Equipment ID No.: 1-0305-125-26-31

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (26-31 G-8 (South))



8-21-12 Quad Cities 248



8-21-12 Quad Cities 249

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-125-26-31

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (26-31 G-8 (South))



8-21-12 Quad Cities 250



8-21-12 Quad Cities 251



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-125-26-31

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (26-31 G-8 (South))



8-21-12 Quad Cities 252



8-21-12 Quad Cities 253

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-125-26-31

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (26-31 G-8 (South))



8-21-12 Quad Cities 254



8-21-12 Quad Cities 255



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-125-30-03

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (30-03 H-1 (South))

Project: Quad Cities 1 SWEL

Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL

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% of SWEL items requiring such verification)?                                                                                                      | 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: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)                                 | Not Applicable |
| 6. | Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?<br><i>The scram water accumulator is an inline component that is adequately restrained to the CRD/HCU support frame.</i> | Yes            |

**Interaction Effects**

- |    |                                                                      |     |
|----|----------------------------------------------------------------------|-----|
| 7. | Are soft targets free from impact by nearby equipment or structures? | Yes |
|----|----------------------------------------------------------------------|-----|

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-125-30-03

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (30-03 H-1 (South))

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? 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**

Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012

Evaluated by:

David Carter David Carter

Date: 10/4/2012

James D. Griffith James Griffith

10/4/2012

Status:  Y  N  U

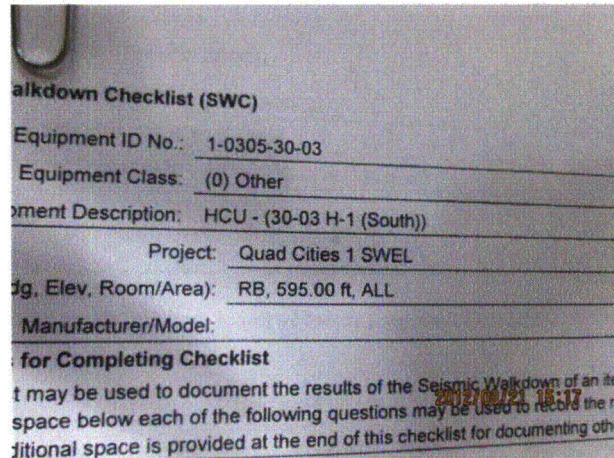
**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-125-30-03

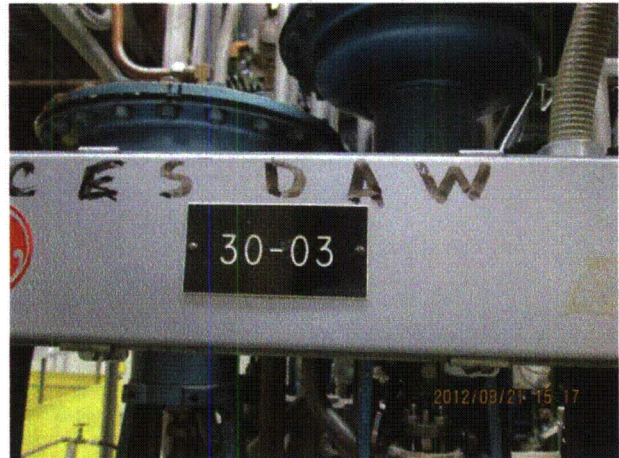
Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (30-03 H-1 (South))

**Photos**



8-21-12 Quad Cities 256



8-21-12 Quad Cities 257



8-21-12 Quad Cities 258



8-21-12 Quad Cities 259



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

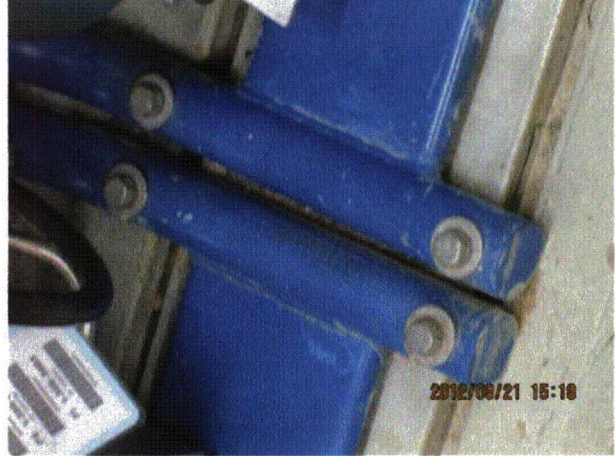
Equipment ID No.: 1-0305-125-30-03

Equipment Class: (21) Tanks and Heat Exchangers

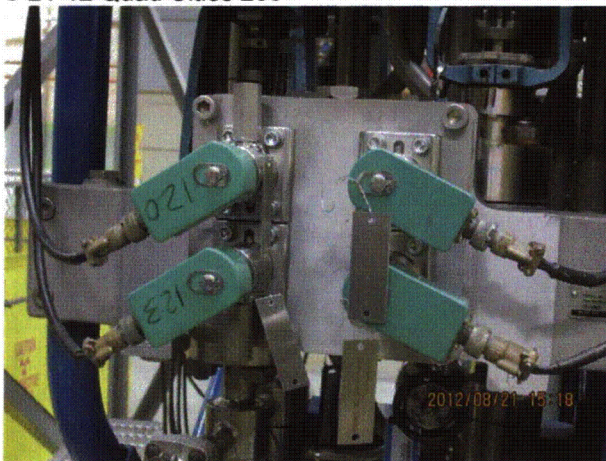
Equipment Description: SCRAM WATER ACCUMULATOR (30-03 H-1 (South))



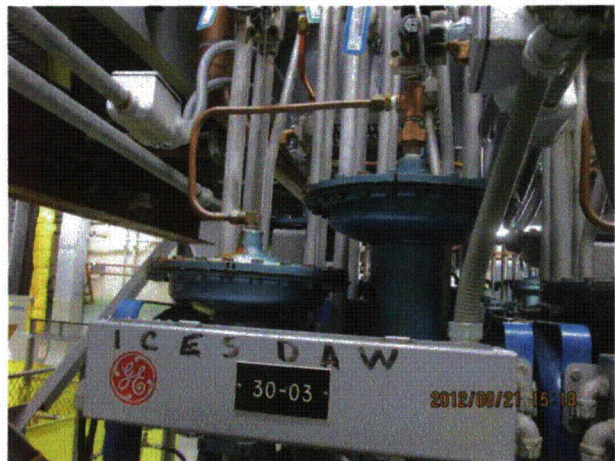
8-21-12 Quad Cities 260



8-21-12 Quad Cities 261



8-21-12 Quad Cities 262



8-21-12 Quad Cities 263



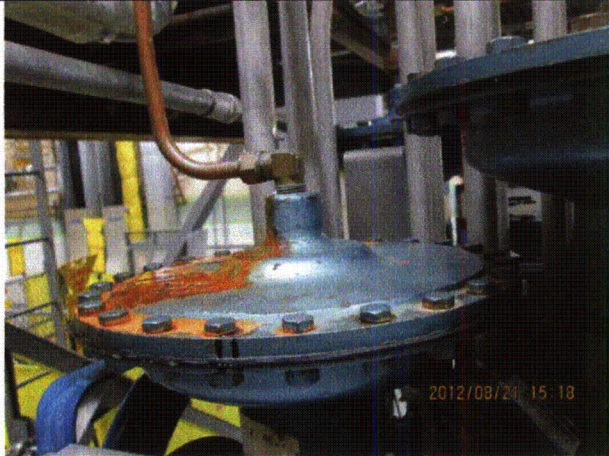
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**Seismic Walkdown Checklist (SWC)**

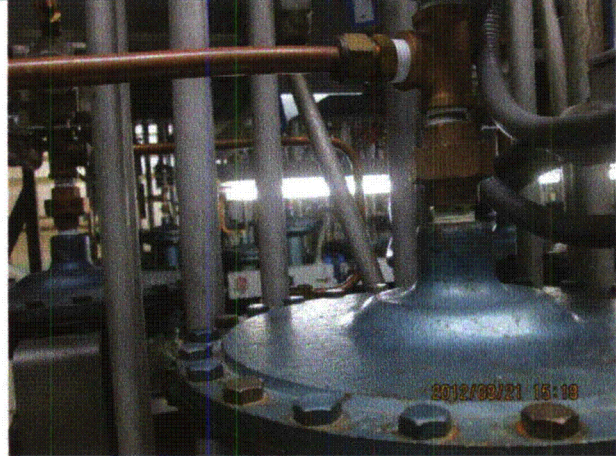
Equipment ID No.: 1-0305-125-30-03

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (30-03 H-1 (South))



8-21-12 Quad Cities 264



8-21-12 Quad Cities 265



8-21-12 Quad Cities 266



8-21-12 Quad Cities 267

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-125-34-03

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (34-03 J-1 (North))

Project: Quad Cities 1 SWEL

Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL

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% of SWEL items requiring such verification)?                                                                                                      | 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: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)                                 | Not Applicable |
| 6. | Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?<br><i>The scram water accumulator is an inline component that is adequately restrained to the CRD/HCU support frame.</i> | Yes            |

**Interaction Effects**

- |    |                                                                      |     |
|----|----------------------------------------------------------------------|-----|
| 7. | Are soft targets free from impact by nearby equipment or structures? | Yes |
|----|----------------------------------------------------------------------|-----|

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-125-34-03

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (34-03 J-1 (North))

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  
*Overhead light fixtures judged to be acceptable.* 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**

Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012

Evaluated by:

*David Carter* David Carter

Date: 10/4/2012

*James D. Griffith* James Griffith

10/4/2012



Status:  Y  N  U

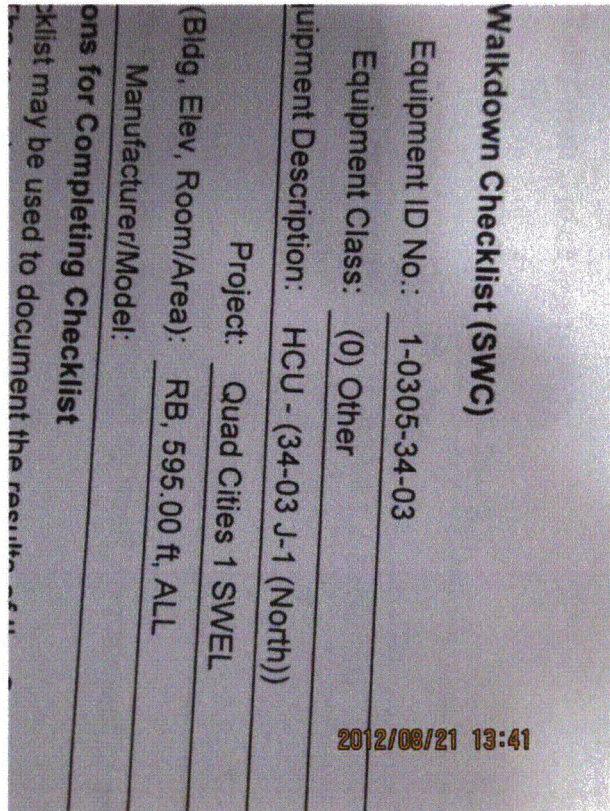
**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-125-34-03

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (34-03 J-1 (North))

**Photos**



8-21-12 Quad Cities 212



8-21-12 Quad Cities 213



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-125-34-03

Equipment Class: (21) Tanks and Heat Exchangers

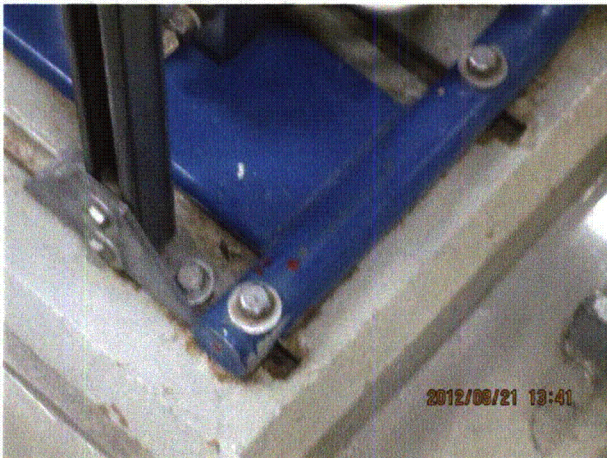
Equipment Description: SCRAM WATER ACCUMULATOR (34-03 J-1 (North))



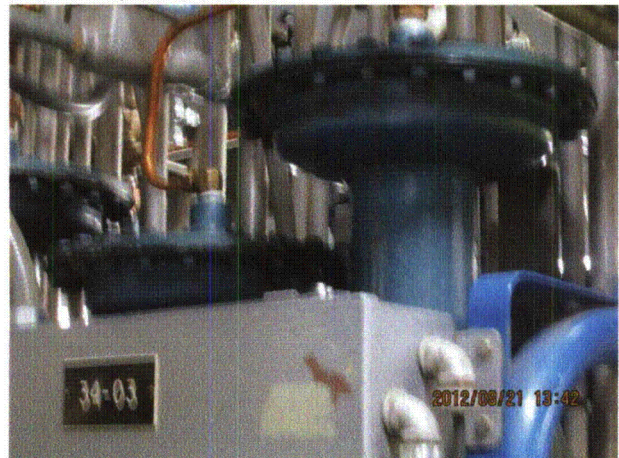
8-21-12 Quad Cities 214



8-21-12 Quad Cities 215



8-21-12 Quad Cities 216



8-21-12 Quad Cities 217



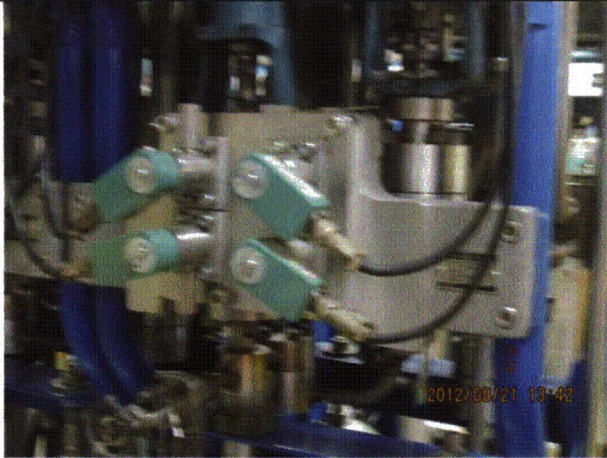
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**Seismic Walkdown Checklist (SWC)**

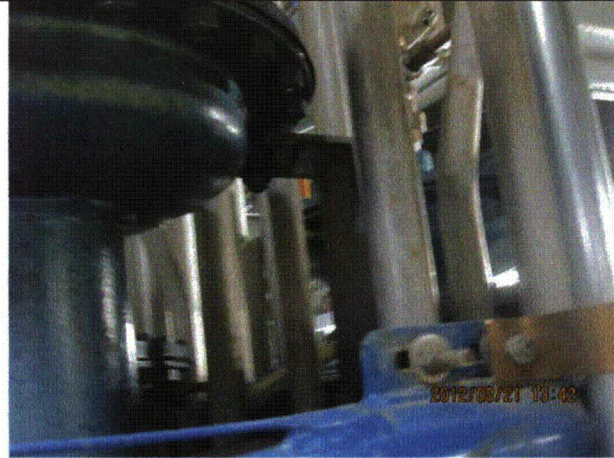
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Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (34-03 J-1 (North))



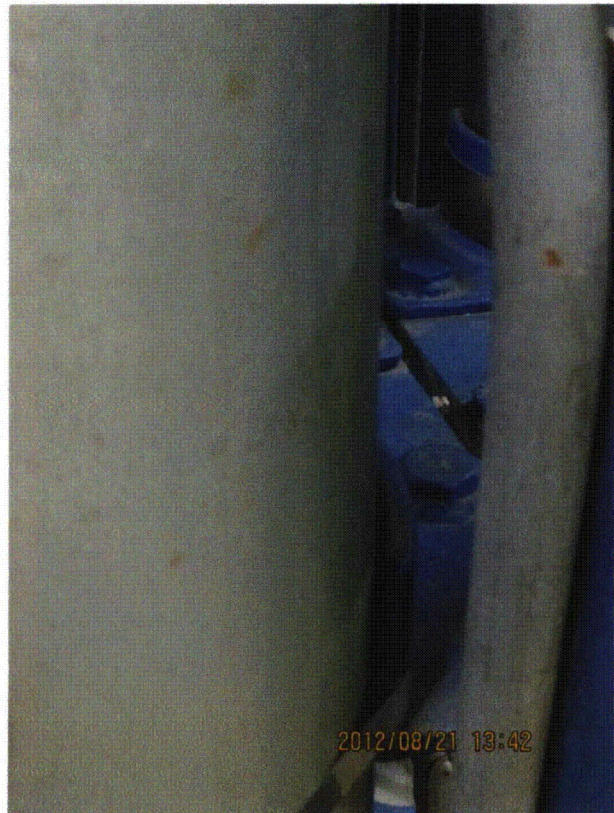
8-21-12 Quad Cities 218



8-21-12 Quad Cities 219



8-21-12 Quad Cities 220



8-21-12 Quad Cities 221

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-125-34-35

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (34-35 J-9 (North))

Project: Quad Cities 1 SWEL

Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL

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% of SWEL items requiring such verification)? 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: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Not Applicable
  
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Yes  
*The scram water accumulator is an inline component that is adequately restrained to the CRD/HCU support frame.*

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Yes

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-125-34-35

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (34-35 J-9 (North))

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Yes  
*Overhead light fixtures judged to be acceptable.*
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**

Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012

Evaluated by:  David Carter Date: 10/4/2012

 James D. Griffith 10/4/2012



Status:  Y  N  U

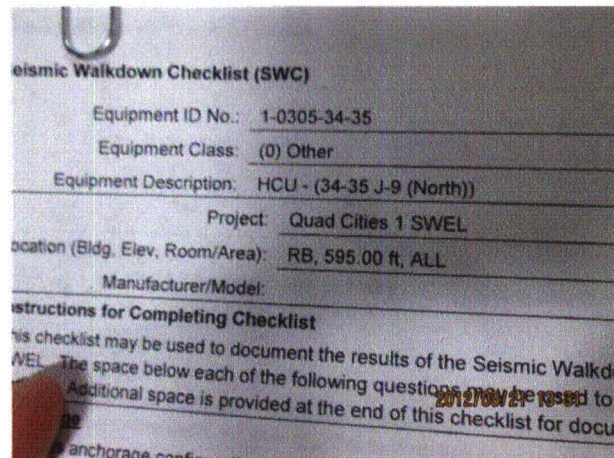
**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-125-34-35

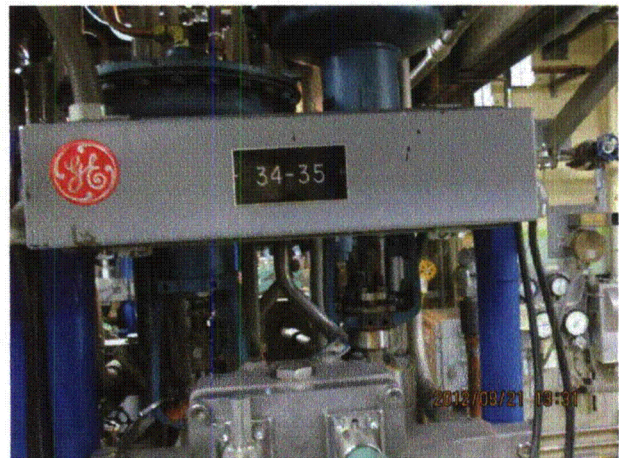
Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (34-35 J-9 (North))

**Photos**



8-21-12 Quad Cities 202



8-21-12 Quad Cities 203



8-21-12 Quad Cities 204



8-21-12 Quad Cities 205



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

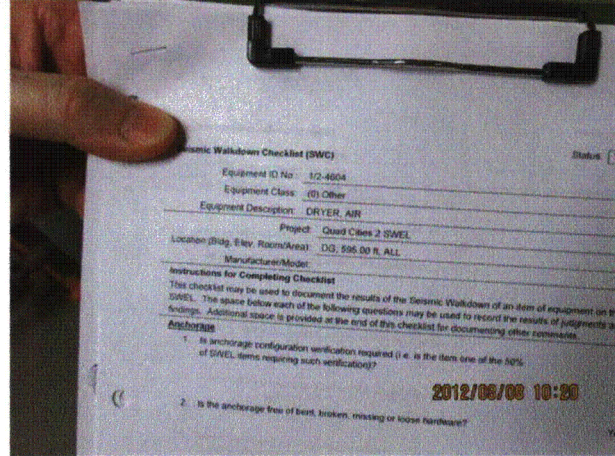
Equipment ID No.: 1-0305-125-34-35

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (34-35 J-9 (North))



8-21-12 Quad Cities 206



8-21-12 Quad Cities 207



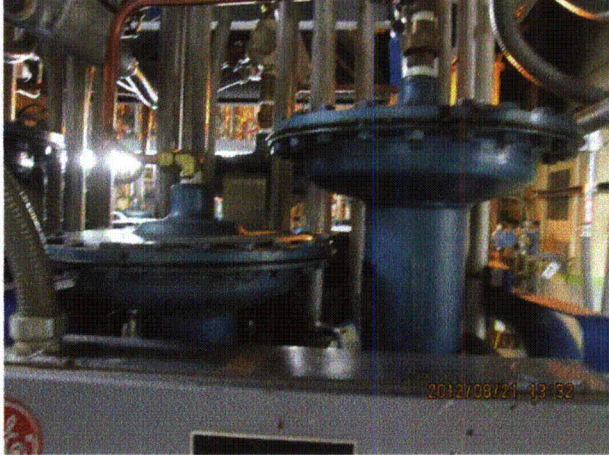
Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

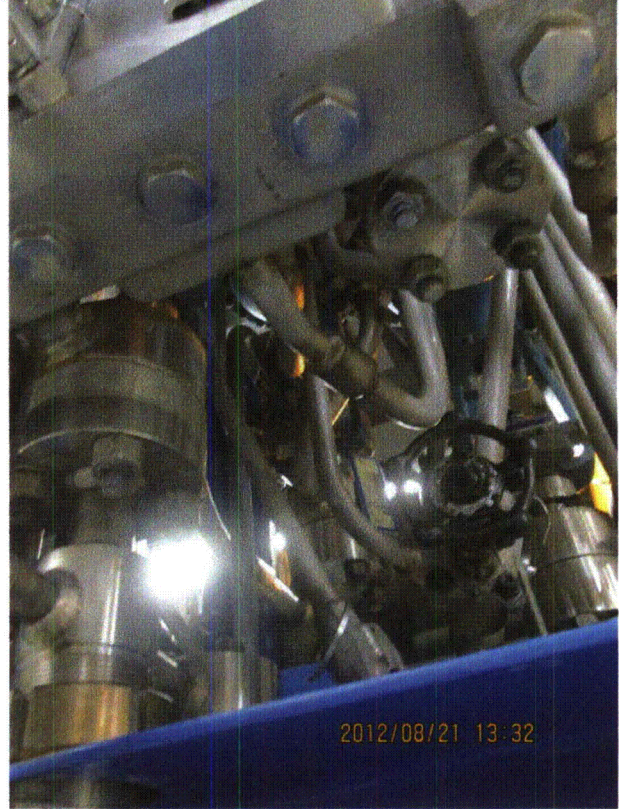
Equipment ID No.: 1-0305-125-34-35

Equipment Class: (21) Tanks and Heat Exchangers

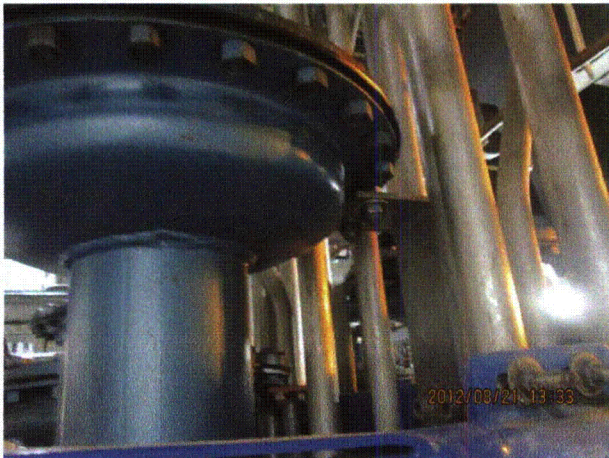
Equipment Description: SCRAM WATER ACCUMULATOR (34-35 J-9 (North))



8-21-12 Quad Cities 208



8-21-12 Quad Cities 209



8-21-12 Quad Cities 210



8-21-12 Quad Cities 211

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-126-26-31

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: CRD SCRAM Inlet Valve (26-31 G-8 (South))

Project: Quad Cities 1 SWEL

Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL

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% of SWEL items requiring such verification)? 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: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Not Applicable
  
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Yes  
*The scram inlet valve is an inline component with the operator adequately restrained to the CRD/HCU support frame.*

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Yes



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-126-26-31

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: CRD SCRAM Inlet Valve (26-31 G-8 (South))

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? 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  
*Adjacent flexible pipes in contact judged to be acceptable.*

**Comments**

Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012

Evaluated by:

David Carter David Carter

Date: 10/4/2012

James D. Griffith James Griffith

10/4/2012

**Photos**

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-126-30-03

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: CRD SCRAM Inlet Valve (30-03 H-1 (South))

Project: Quad Cities 1 SWEL

Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL

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% of SWEL items requiring such verification)?                                                                                                          | 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: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)                                     | Not Applicable |
| 6. | Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?<br><i>The scram inlet valve is an inline component with the operator adequately restrained to the CRD/HCU support frame.</i> | Yes            |

**Interaction Effects**

- |    |                                                                      |     |
|----|----------------------------------------------------------------------|-----|
| 7. | Are soft targets free from impact by nearby equipment or structures? | Yes |
|----|----------------------------------------------------------------------|-----|

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-126-30-03

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: CRD SCRAM Inlet Valve (30-03 H-1 (South))

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? 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**

Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012

Evaluated by: *David Carter* David Carter Date: 10/4/2012

*James D. Griffith* James Griffith 10/4/2012

**Photos**



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-126-34-03

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: CRD SCRAM Inlet Valve (34-03 J-1 (North))

Project: Quad Cities 1 SWEL

Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL

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% of SWEL items requiring such verification)?                                                                                                          | 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: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)                                     | Not Applicable |
| 6. | Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?<br><i>The scram inlet valve is an inline component with the operator adequately restrained to the CRD/HCU support frame.</i> | Yes            |

**Interaction Effects**

- |    |                                                                      |     |
|----|----------------------------------------------------------------------|-----|
| 7. | Are soft targets free from impact by nearby equipment or structures? | Yes |
|----|----------------------------------------------------------------------|-----|

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-126-34-03

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: CRD SCRAM Inlet Valve (34-03 J-1 (North))

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Yes  
*Overhead light fixtures judged to be acceptable.*
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**

Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012

Evaluated by: *David Carter* David Carter Date: 10/4/2012

*James D. Griffith* James Griffith 10/4/2012

**Photos**

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-126-34-35

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: CRD SCRAM Inlet Valve (34-35 J-9 (North))

Project: Quad Cities 1 SWEL

Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL

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% of SWEL items requiring such verification)? 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: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Not Applicable
  
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Yes  
*The scram inlet valve is an inline component with the operator adequately restrained to the CRD/HCU support frame.*

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Yes



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-126-34-35

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: CRD SCRAM Inlet Valve (34-35 J-9 (North))

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  
*Overhead light fixtures judged to be acceptable.* 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**

Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012

Evaluated by:

David Carter David Carter

Date: 10/4/2012

James D. Griffith James Griffith

10/4/2012

**Photos**

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-127-26-31

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: CRD SCRAM Outlet Valve (26-31 G-8 (South))

Project: Quad Cities 1 SWEL

Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL

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% of SWEL items requiring such verification)?                                                                                                           | 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: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)                                      | Not Applicable |
| 6. | Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?<br><i>The scram outlet valve is an inline component with the operator adequately restrained to the CRD/HCU support frame.</i> | Yes            |

**Interaction Effects**

- |    |                                                                      |     |
|----|----------------------------------------------------------------------|-----|
| 7. | Are soft targets free from impact by nearby equipment or structures? | Yes |
|----|----------------------------------------------------------------------|-----|



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-127-26-31

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: CRD SCRAM Outlet Valve (26-31 G-8 (South))

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? 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  
*Adjacent flexible pipes in contact judged to be acceptable.*

**Comments**

Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012

Evaluated by:  David Carter Date: 10/4/2012

 James D. Griffith 10/4/2012

**Photos**

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-127-30-03

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: CRD SCRAM Outlet Valve (30-03 H-1 (South))

Project: Quad Cities 1 SWEL

Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL

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% of SWEL items requiring such verification)?                                                                                                           | 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: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)                                      | Not Applicable |
| 6. | Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?<br><i>The scram outlet valve is an inline component with the operator adequately restrained to the CRD/HCU support frame.</i> | Yes            |

**Interaction Effects**

- |    |                                                                      |     |
|----|----------------------------------------------------------------------|-----|
| 7. | Are soft targets free from impact by nearby equipment or structures? | Yes |
|----|----------------------------------------------------------------------|-----|



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-127-30-03

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: CRD SCRAM Outlet Valve (30-03 H-1 (South))

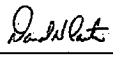
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Yes
9. Do attached lines have adequate flexibility to avoid damage? Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Yes

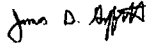
**Other Adverse Conditions**

11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Yes

**Comments**

Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012

Evaluated by:  David Carter Date: 10/4/2012

 James D. Griffith 10/4/2012

**Photos**

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-127-34-03

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: CRD SCRAM Outlet Valve (34-03 J-1 (North))

Project: Quad Cities 1 SWEL

Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL

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% of SWEL items requiring such verification)? 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: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Not Applicable
  
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Yes  
*The scram outlet valve is an inline component with the operator adequately restrained to the CRD/HCU support frame.*

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Yes



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-127-34-03

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: CRD SCRAM Outlet Valve (34-03 J-1 (North))

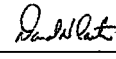
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  
*Overhead light fixture judged to be acceptable.* Yes
9. Do attached lines have adequate flexibility to avoid damage? Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Yes

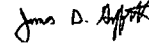
**Other Adverse Conditions**

11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Yes

**Comments**

Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012

Evaluated by:  David Carter Date: 10/4/2012

 James D. Griffith 10/4/2012

**Photos**

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-127-34-35

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: CRD SCRAM Outlet Valve (34-35 J-9 (North))

Project: Quad Cities 1 SWEL

Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL

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% of SWEL items requiring such verification)? 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: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Not Applicable
  
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Yes  
*The scram outlet valve is an inline component with the operator adequately restrained to the CRD/HCU support frame.*

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Yes

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-127-34-35

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: CRD SCRAM Outlet Valve (34-35 J-9 (North))

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Yes  
*Overhead light fixtures judged to be acceptable.*
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**

Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012

Evaluated by:

David Carter David Carter

Date: 10/4/2012

James D. Griffith James Griffith

10/4/2012

**Photos**



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-26-31

Equipment Class: (0) Other

Equipment Description: HCU - (26-31 G-8 (South))

Project: Quad Cities 1 SWEL

Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL

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% of SWEL items requiring such verification)? 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  
*Anchorage is shown on Drawings M-346, Rev. L and M-357, sheet 1, Rev.A.*
  
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Yes

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Yes

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-26-31

Equipment Class: (0) Other

Equipment Description: HCU - (26-31 G-8 (South))

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? 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  
*Adjacent flexible pipes in contact judged to be acceptable.*

**Comments**

Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012

Evaluated by:  David Carter Date: 10/4/2012

 James D. Griffith 10/4/2012

Status:  Y  N  U

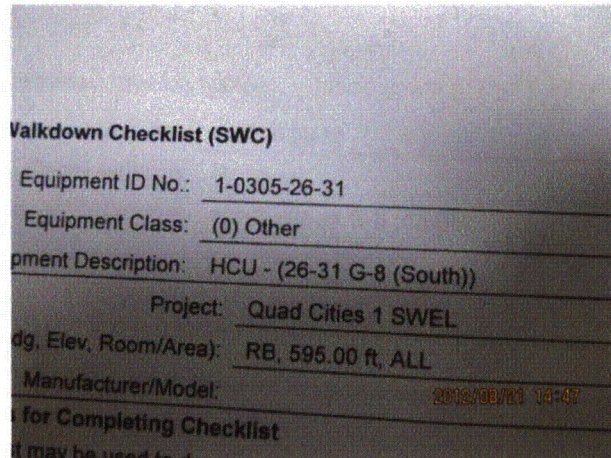
**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-26-31

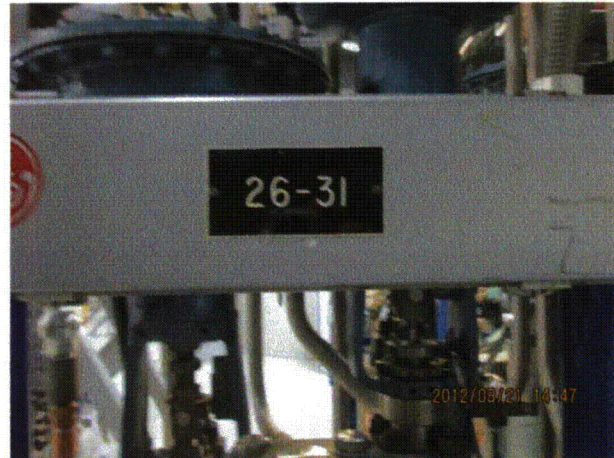
Equipment Class: (0) Other

Equipment Description: HCU - (26-31 G-8 (South))

**Photos**



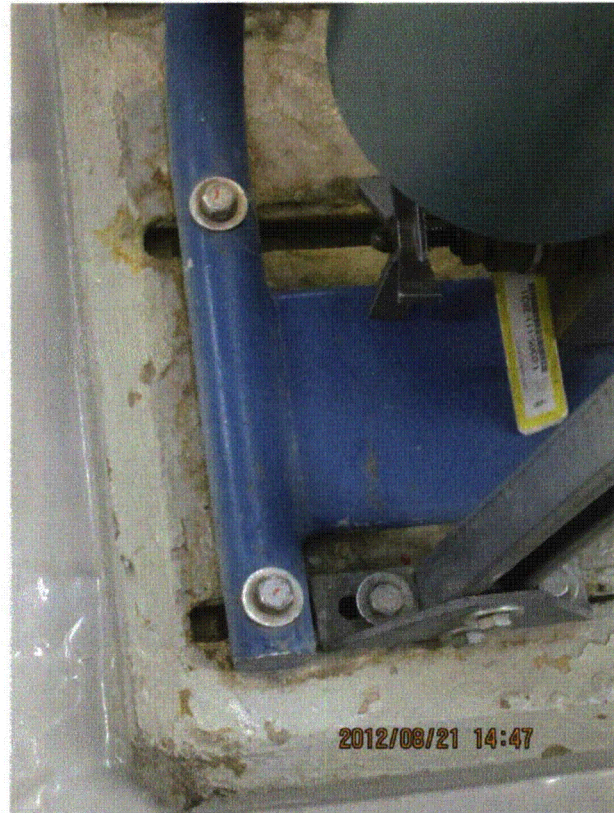
8-21-12 Quad Cities 240



8-21-12 Quad Cities 241



8-21-12 Quad Cities 242



8-21-12 Quad Cities 243



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

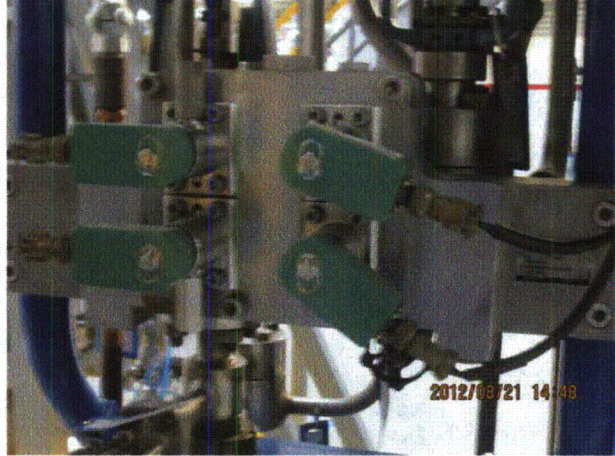
Equipment ID No.: 1-0305-26-31

Equipment Class: (0) Other

Equipment Description: HCU - (26-31 G-8 (South))



8-21-12 Quad Cities 244



8-21-12 Quad Cities 245

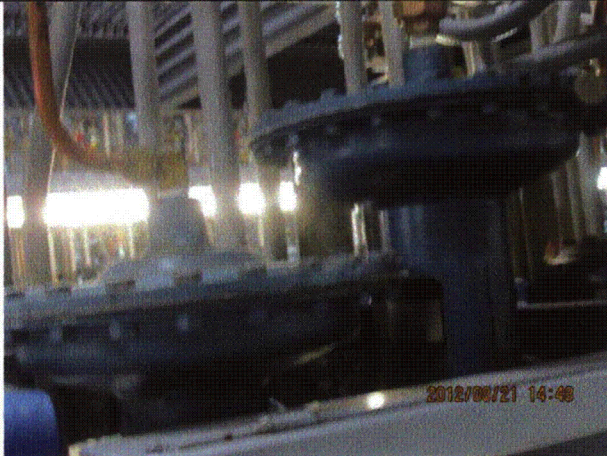
Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-26-31

Equipment Class: (0) Other

Equipment Description: HCU - (26-31 G-8 (South))



8-21-12 Quad Cities 246



8-21-12 Quad Cities 247



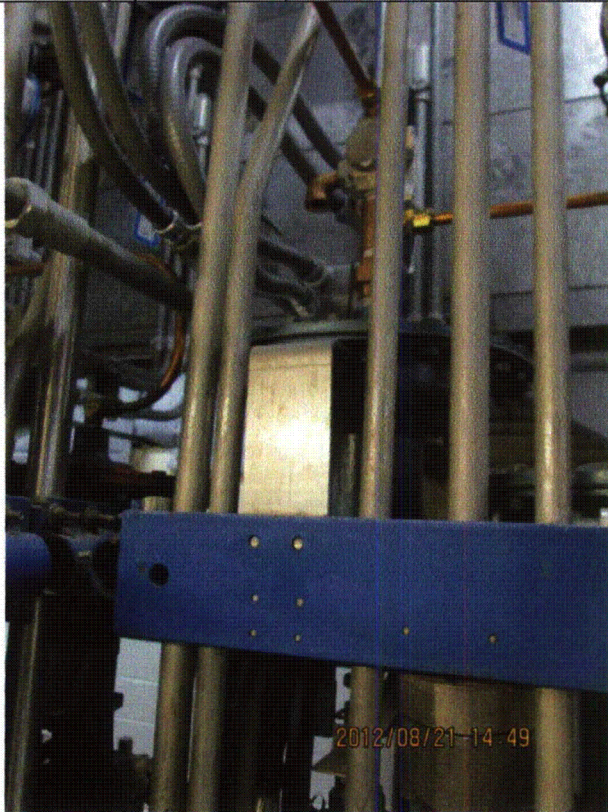
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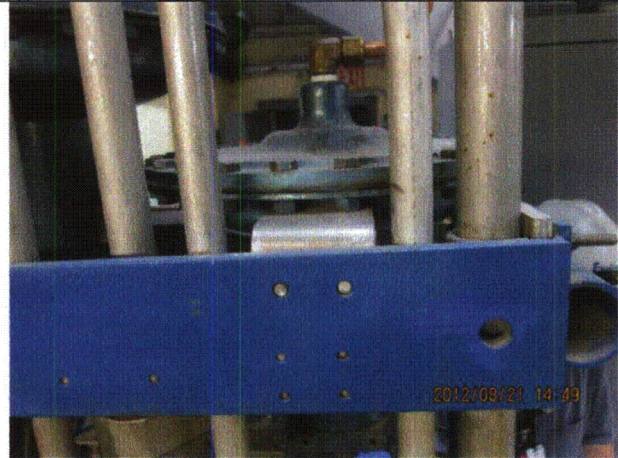
Equipment ID No.: 1-0305-26-31

Equipment Class: (0) Other

Equipment Description: HCU - (26-31 G-8 (South))



8-21-12 Quad Cities 248



8-21-12 Quad Cities 249



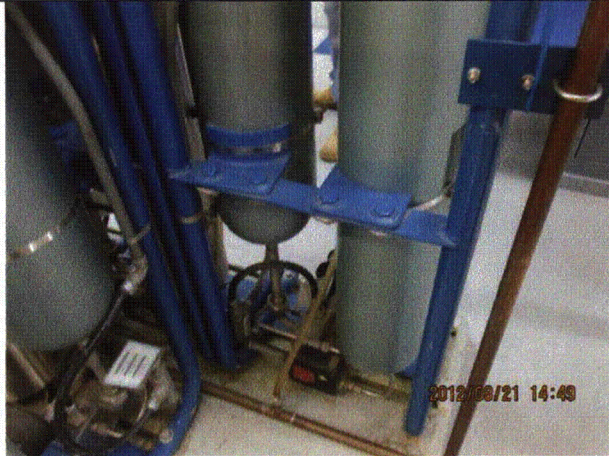
Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-26-31

Equipment Class: (0) Other

Equipment Description: HCU - (26-31 G-8 (South))



8-21-12 Quad Cities 250



8-21-12 Quad Cities 251

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-26-31

Equipment Class: (0) Other

Equipment Description: HCU - (26-31 G-8 (South))



8-21-12 Quad Cities 252



8-21-12 Quad Cities 253



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-26-31

Equipment Class: (0) Other

Equipment Description: HCU - (26-31 G-8 (South))



8-21-12 Quad Cities 254



8-21-12 Quad Cities 255



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-30-03

Equipment Class: (0) Other

Equipment Description: HCU - (30-03 H-1 (South))

Project: Quad Cities 1 SWEL

Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL

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% of SWEL items requiring such verification)? 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  
*Anchorage is shown on Drawings M-346, Rev. L and M-357, sheet 1, Rev.A.*
  
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Yes

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Yes

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-30-03

Equipment Class: (0) Other

Equipment Description: HCU - (30-03 H-1 (South))

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? 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**

Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012

Evaluated by:  David Carter Date: 10/4/2012

 James Griffith 10/4/2012

Status:  Y  N  U

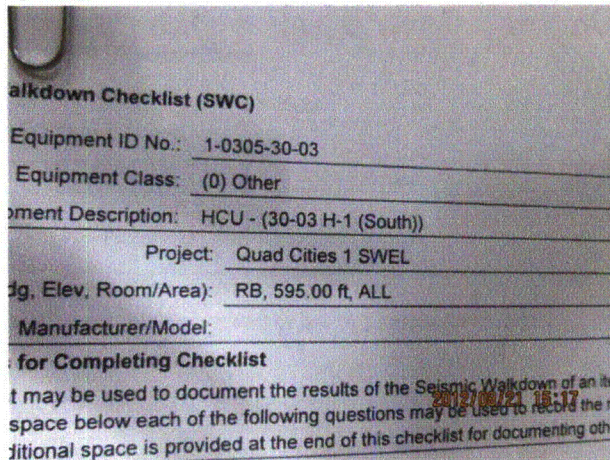
**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-30-03

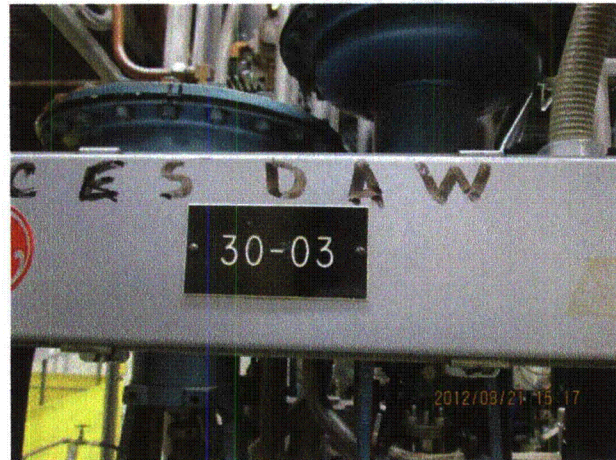
Equipment Class: (0) Other

Equipment Description: HCU - (30-03 H-1 (South))

**Photos**



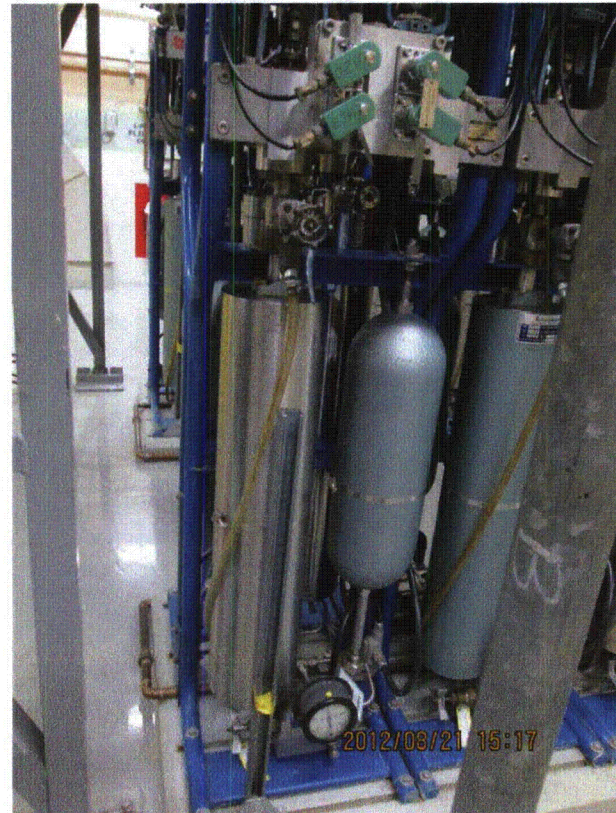
8-21-12 Quad Cities 256



8-21-12 Quad Cities 257



8-21-12 Quad Cities 258



8-21-12 Quad Cities 259



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

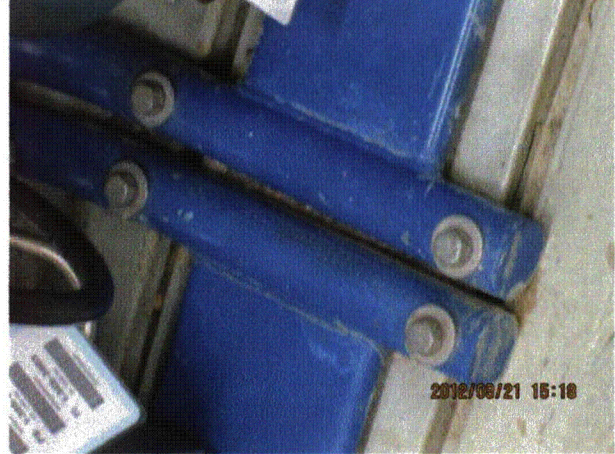
Equipment ID No.: 1-0305-30-03

Equipment Class: (0) Other

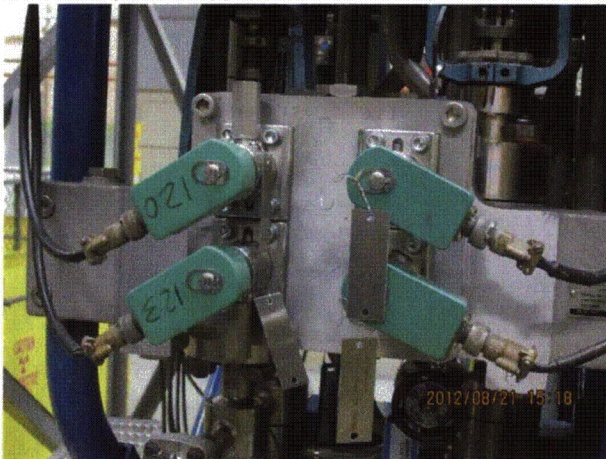
Equipment Description: HCU - (30-03 H-1 (South))



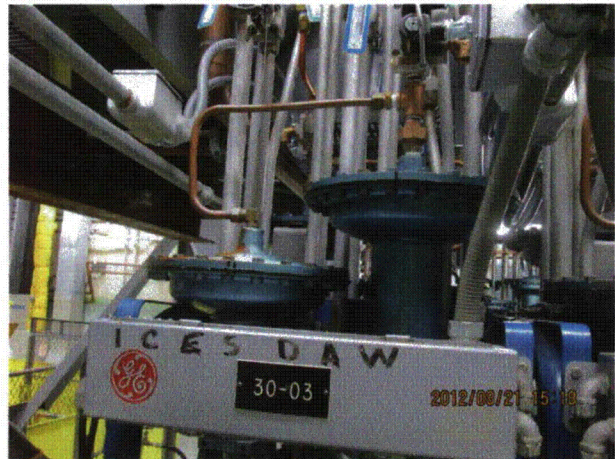
8-21-12 Quad Cities 260



8-21-12 Quad Cities 261



8-21-12 Quad Cities 262



8-21-12 Quad Cities 263



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

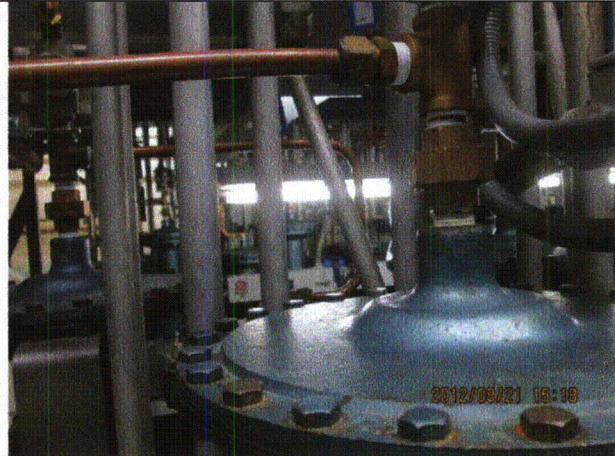
Equipment ID No.: 1-0305-30-03

Equipment Class: (0) Other

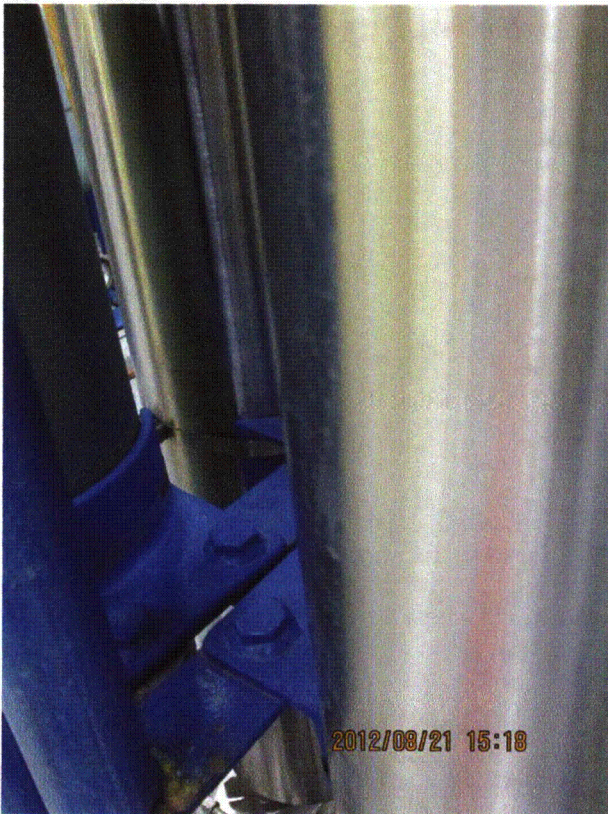
Equipment Description: HCU - (30-03 H-1 (South))



8-21-12 Quad Cities 264



8-21-12 Quad Cities 265



8-21-12 Quad Cities 266



8-21-12 Quad Cities 267

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-34-03

Equipment Class: (0) Other

Equipment Description: HCU - (34-03 J-1 (North))

Project: Quad Cities 1 SWEL

Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL

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% of SWEL items requiring such verification)? 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  
*Anchorage is shown on Drawings M-346, Rev. L and M-357, sheet 1, Rev.A.*
  
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Yes

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Yes



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-34-03

Equipment Class: (0) Other

Equipment Description: HCU - (34-03 J-1 (North))

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  
*Overhead light fixtures judged to be acceptable.* 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**

Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012

Evaluated by: *D. Carter* David Carter Date: 10/4/2012  
*James D. Griffith* James Griffith 10/4/2012

Status:  Y  N  U

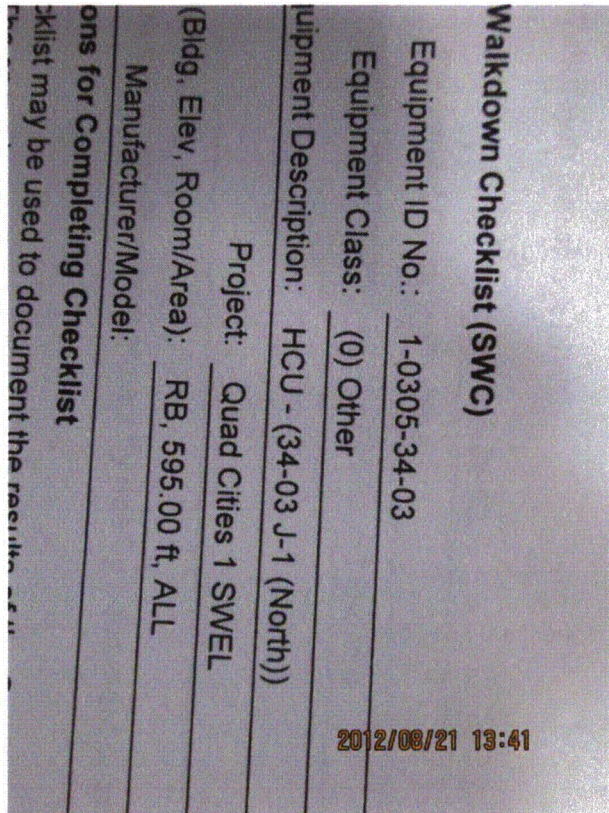
**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-34-03

Equipment Class: (0) Other

Equipment Description: HCU - (34-03 J-1 (North))

**Photos**



8-21-12 Quad Cities 212



8-21-12 Quad Cities 213



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-34-03

Equipment Class: (0) Other

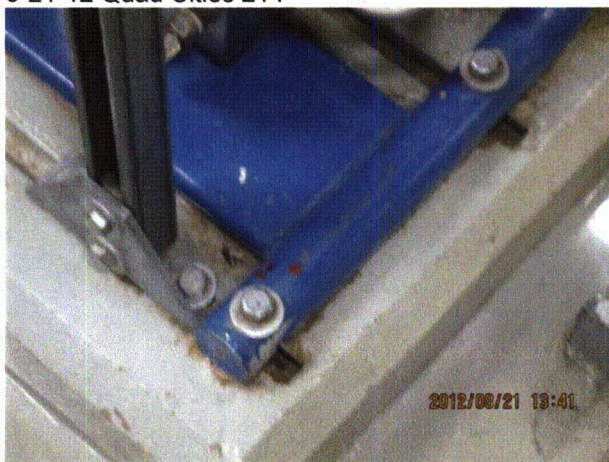
Equipment Description: HCU - (34-03 J-1 (North))



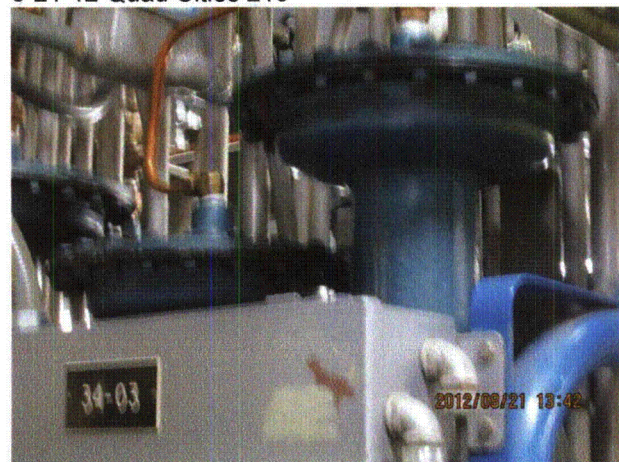
8-21-12 Quad Cities 214



8-21-12 Quad Cities 215



8-21-12 Quad Cities 216



8-21-12 Quad Cities 217



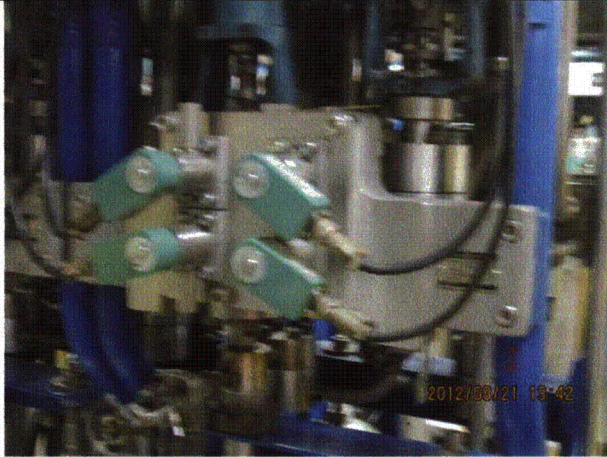
Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

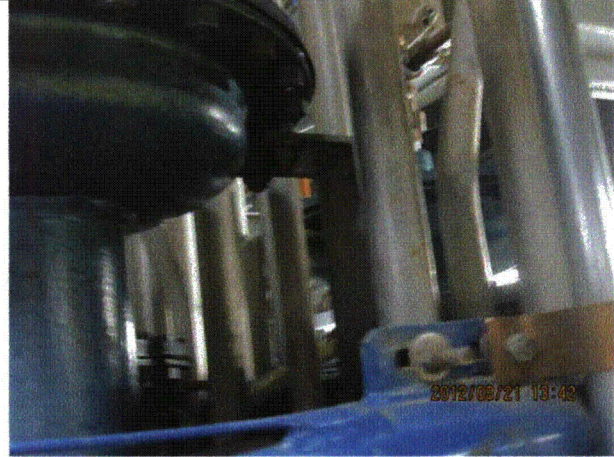
Equipment ID No.: 1-0305-34-03

Equipment Class: (0) Other

Equipment Description: HCU - (34-03 J-1 (North))



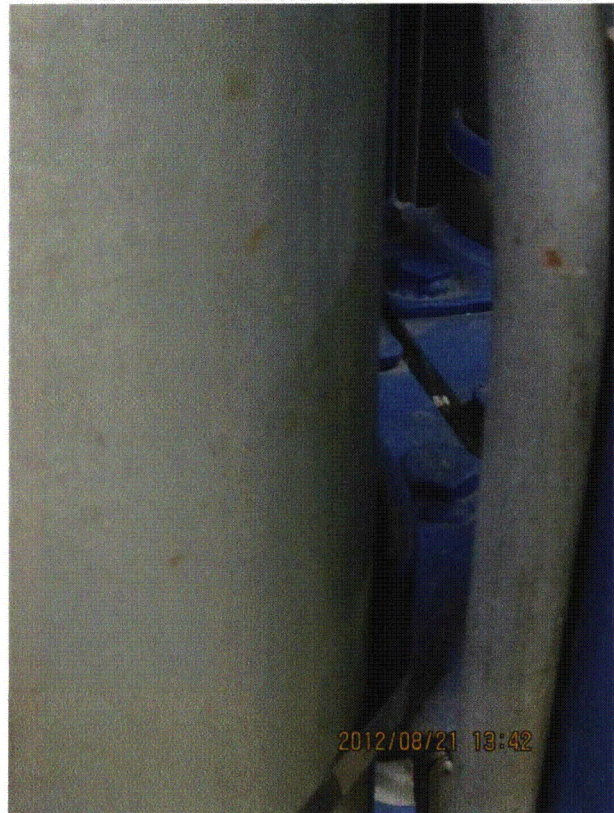
8-21-12 Quad Cities 218



8-21-12 Quad Cities 219



8-21-12 Quad Cities 220



8-21-12 Quad Cities 221

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-34-35

Equipment Class: (0) Other

Equipment Description: HCU - (34-35 J-9 (North))

Project: Quad Cities 1 SWEL

Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL

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% of SWEL items requiring such verification)? 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  
*Anchorage is shown on Drawings M-346, Rev. L and M-357, sheet 1, Rev.A.*
  
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Yes

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Yes

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-34-35

Equipment Class: (0) Other

Equipment Description: HCU - (34-35 J-9 (North))

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Yes  
*Overhead light fixtures judged to be acceptable.*
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**

Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012

Evaluated by:

*D. Carter* David Carter

Date: 10/4/2012

*James D. Griffith* James Griffith

10/4/2012



Status:  Y  N  U

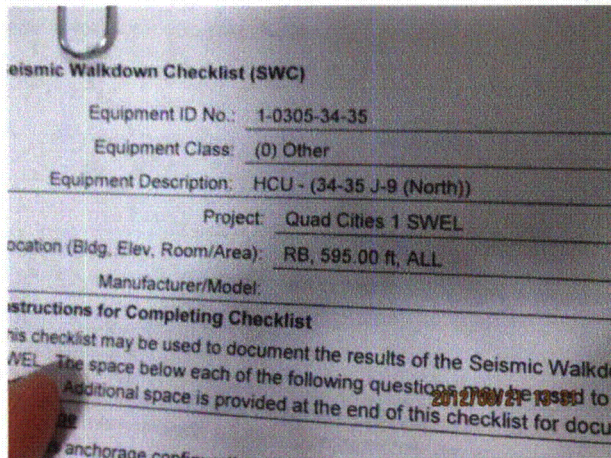
**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-34-35

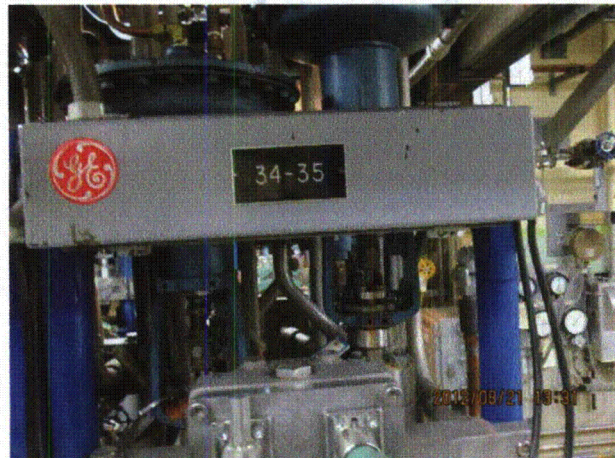
Equipment Class: (0) Other

Equipment Description: HCU - (34-35 J-9 (North))

**Photos**



8-21-12 Quad Cities 202



8-21-12 Quad Cities 203



8-21-12 Quad Cities 204



8-21-12 Quad Cities 205



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

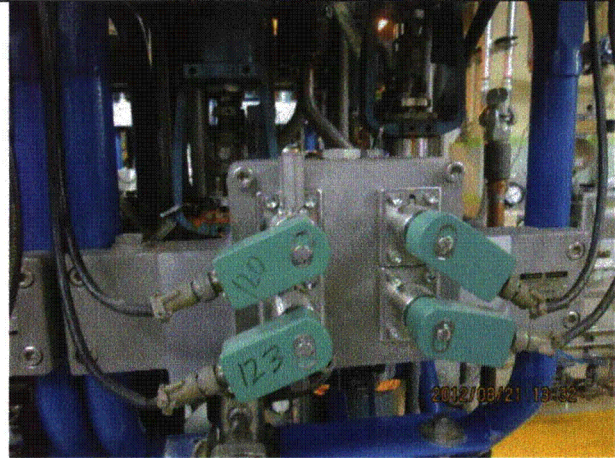
Equipment ID No.: 1-0305-34-35

Equipment Class: (0) Other

Equipment Description: HCU - (34-35 J-9 (North))



8-21-12 Quad Cities 206



8-21-12 Quad Cities 207



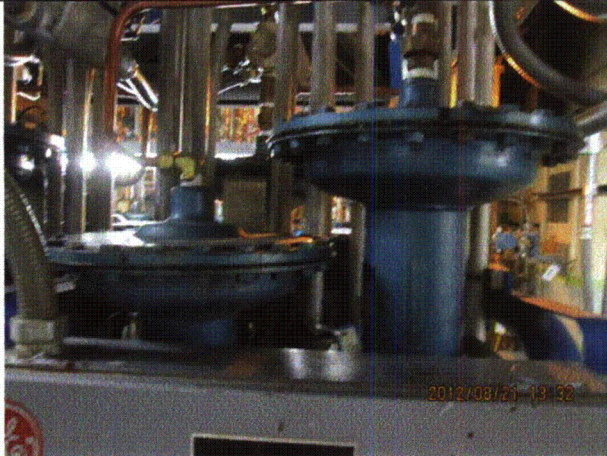
Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-0305-34-35

Equipment Class: (0) Other

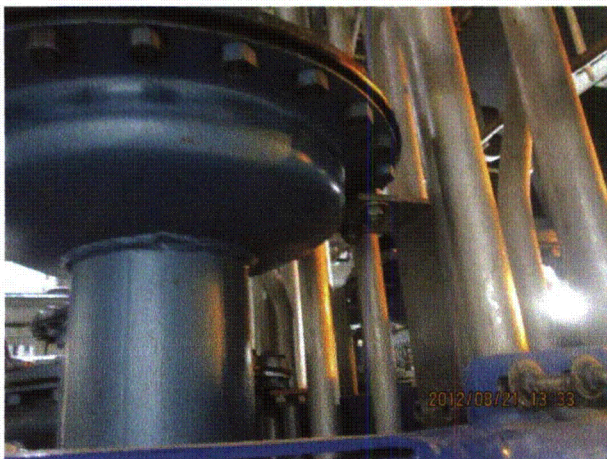
Equipment Description: HCU - (34-35 J-9 (North))



8-21-12 Quad Cities 208



8-21-12 Quad Cities 209



8-21-12 Quad Cities 210



8-21-12 Quad Cities 211



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-1001-145C

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: HEAT EXCHANGER, 1C RHR PUMP

Project: Quad Cities 1 SWEL

Location (Bldg, Elev, Room/Area): RB, 554.00 ft, ALL

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% of SWEL items requiring such verification)?<br><i>Bottom anchorage: base plates anchored to floor.</i><br><br><i>Top anchorage: weld to structural steel.</i> | No             |
| 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?<br><br><i>Minor corrosion judged to be acceptable.</i>                                                                                                              | 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.)                                              | Not Applicable |
| 6. | Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?                                                                                                                                       | Yes            |

**Interaction Effects**

- |    |                                                                      |     |
|----|----------------------------------------------------------------------|-----|
| 7. | Are soft targets free from impact by nearby equipment or structures? | Yes |
|----|----------------------------------------------------------------------|-----|

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-1001-145C

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: HEAT EXCHANGER, 1C RHR PUMP

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? 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  
*Cart with test equipment/monitor in vicinity. Heat exchanger rugged. Judged to be acceptable.*

**Comments**

\*\*\*\*\*

Seismic Walkdown Team: D. Carter & J. Griffith - 8/23/2012

Evaluated by:  David Carter Date: 10/4/2012

 James Griffith 10/4/2012

Status:  Y  N  U

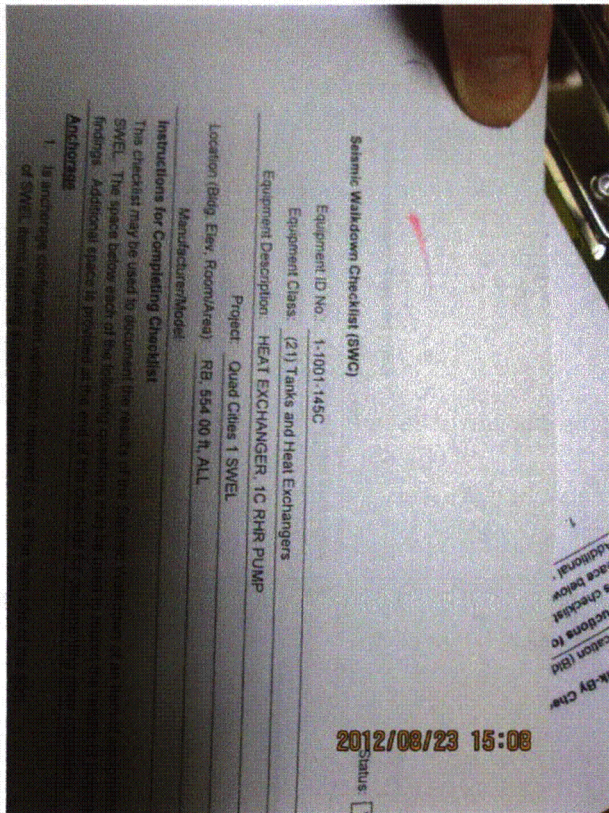
**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-1001-145C

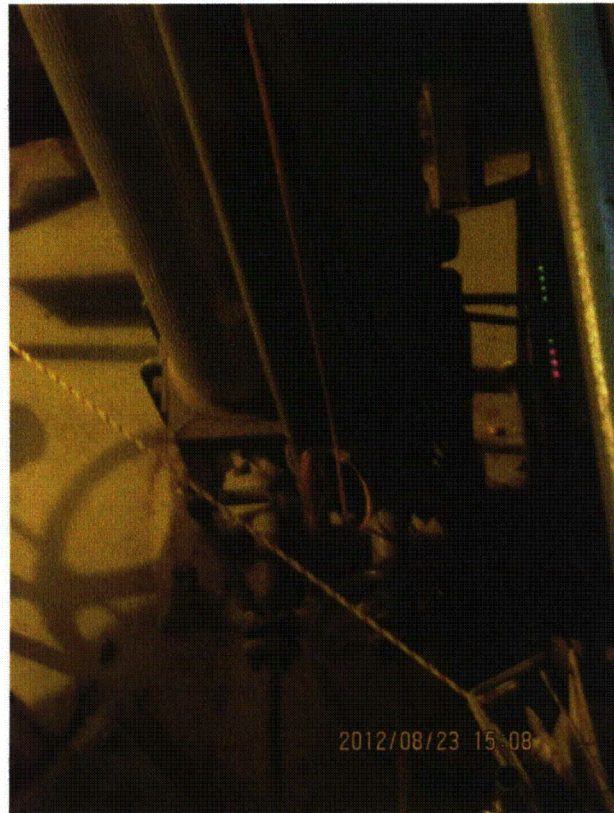
Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: HEAT EXCHANGER, 1C RHR PUMP

**Photos**



Quad Cities 146



Quad Cities 147



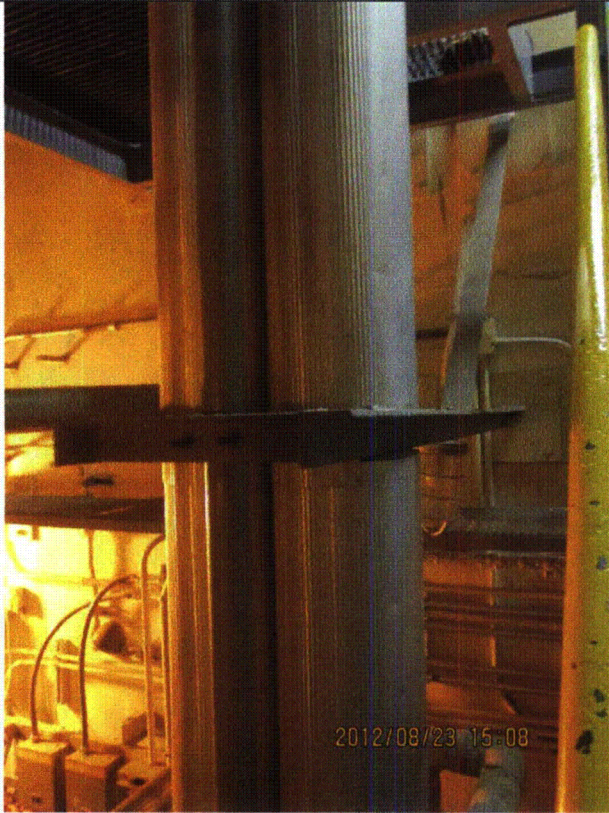
Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-1001-145C

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: HEAT EXCHANGER, 1C RHR PUMP



Quad Cities 148



Quad Cities 149

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-1001-145C

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: HEAT EXCHANGER, 1C RHR PUMP



Quad Cities 150



Quad Cities 151



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-1001-145C

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: HEAT EXCHANGER, 1C RHR PUMP



Quad Cities 152



Quad Cities 153



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-1001-145C

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: HEAT EXCHANGER, 1C RHR PUMP



Quad Cities 154



Quad Cities 155



Quad Cities 156



Quad Cities 157

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-1001-165B

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 1B RHR HX TUBE SIDE RV

Project: Quad Cities 1 SWEL

Location (Bldg, Elev, Room/Area): RB, 580.00 ft, ALL

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% of SWEL items requiring such verification)? 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: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Not Applicable
  
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Yes

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Yes

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-1001-165B

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 1B RHR HX TUBE SIDE RV

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? 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**

\*\*\*\*\*

Seismic Walkdown Team: D. Carter & J. Griffith - 8/23/2012

Evaluated by: *D. Carter* David Carter

Date: 10/4/2012

*James D. Griffith* James Griffith

10/4/2012



Status:  Y  N  U

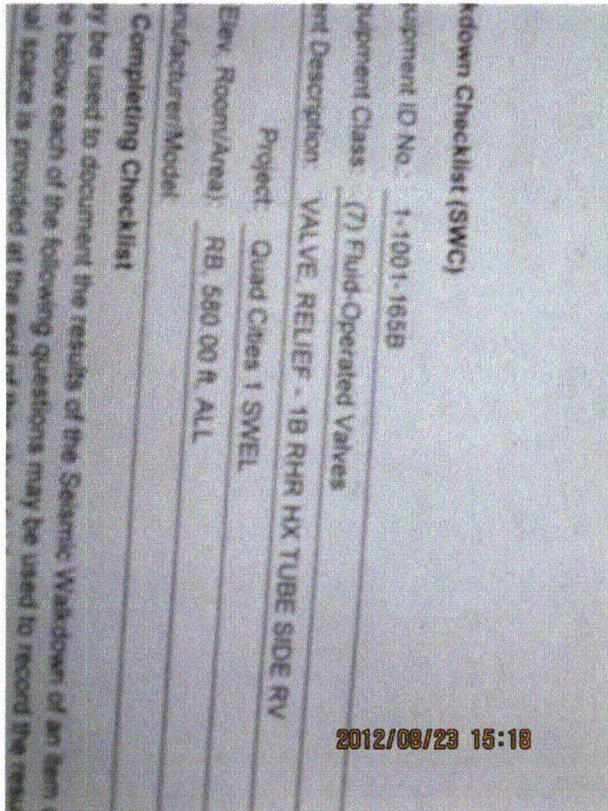
**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-1001-165B

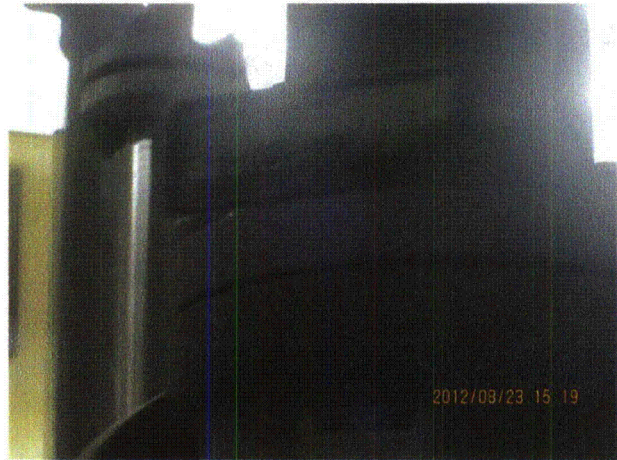
Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 1B RHR HX TUBE SIDE RV

**Photos**



Quad Cities 161



Quad Cities 162

Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-1001-165B

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 1B RHR HX TUBE SIDE RV



Quad Cities 163



Quad Cities 164



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-1001-165B

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 1B RHR HX TUBE SIDE RV



Quad Cities 165



Quad Cities 166



Status:  Y  N  U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.: 1-1001-165B

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 1B RHR HX TUBE SIDE RV



Quad Cities 167