

Seismic Walkdown Checklist (SWC)Equipment ID No. 2R43-C006C Equip. Class¹ 12Equipment Description DG 2C AIR COMPRESSORLocation: Bldg. DIESEL Floor El. 130 Room, Area DIESEL GEN ROOM 2C

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)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
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.) Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2R43-C006C Equip. Class¹ 12

Equipment Description DG 2C AIR COMPRESSOR

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A

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

9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
The flex conduit attached to the equipment as shown in photograph 3 is in contact with the sharp edge of a supporting angle. This condition is not considered adverse in a seismic event, due to the relative small duration of vibration. Long term fretting on the conduit may occur during operation when high frequency vibrations are constantly present. CR 515119 was created to address this condition.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

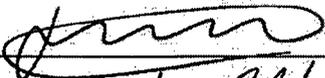
Other Adverse Conditions

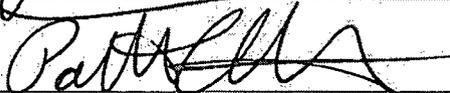
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

Comments (Additional pages may be added as necessary)

There is a missing screw in the equipment housing as shown in picture 4. CR 515119 was created to address this issue.

Walkby for this equipment is addressed in 2R43-S001C.

Evaluated by: Juan Vizcaya  Date: 09/10/2012

Patrick Kelly  09/10/2012

Seismic Walkdown Checklist (SWC)

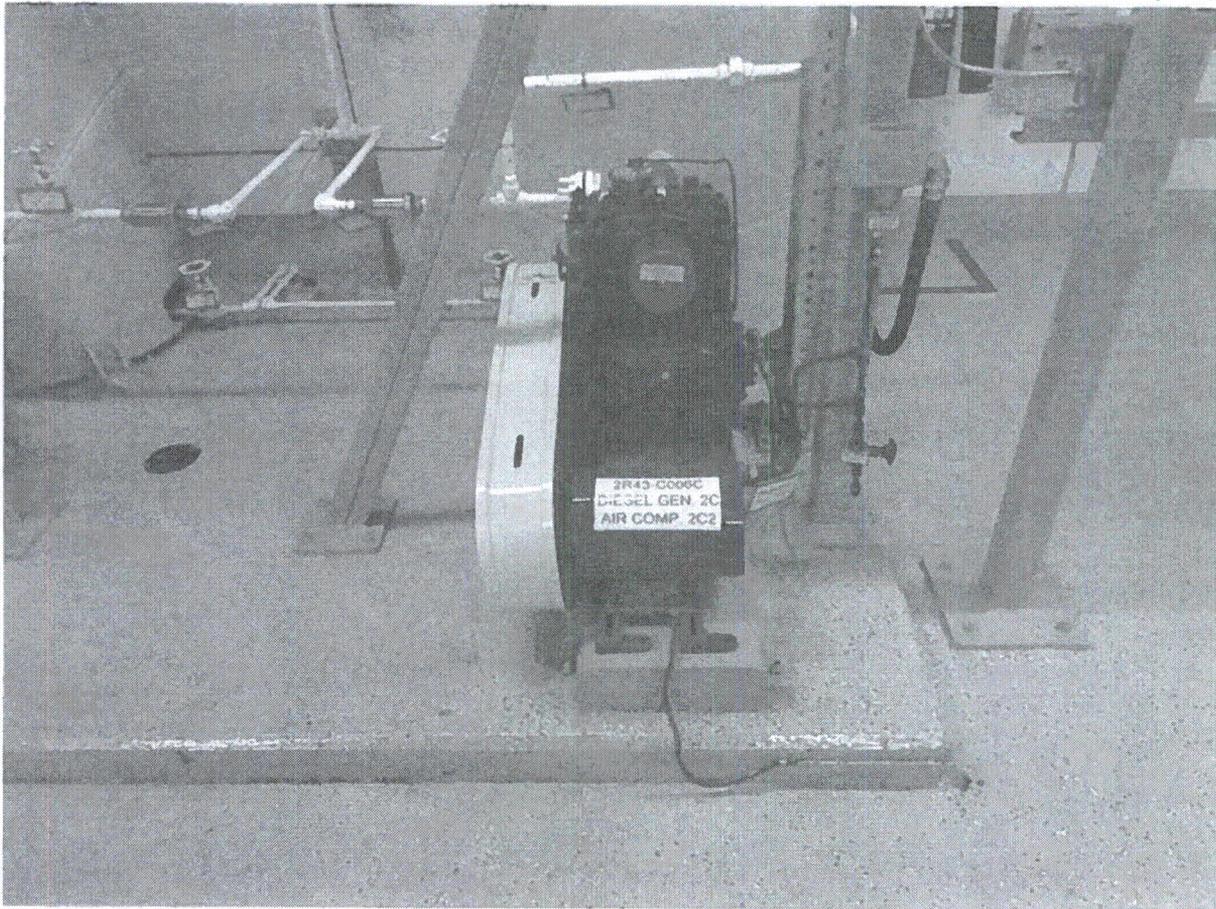
Equipment ID No. 2R43-C006C Equip. Class¹ 12

Equipment Description DG 2C AIR COMPRESSOR

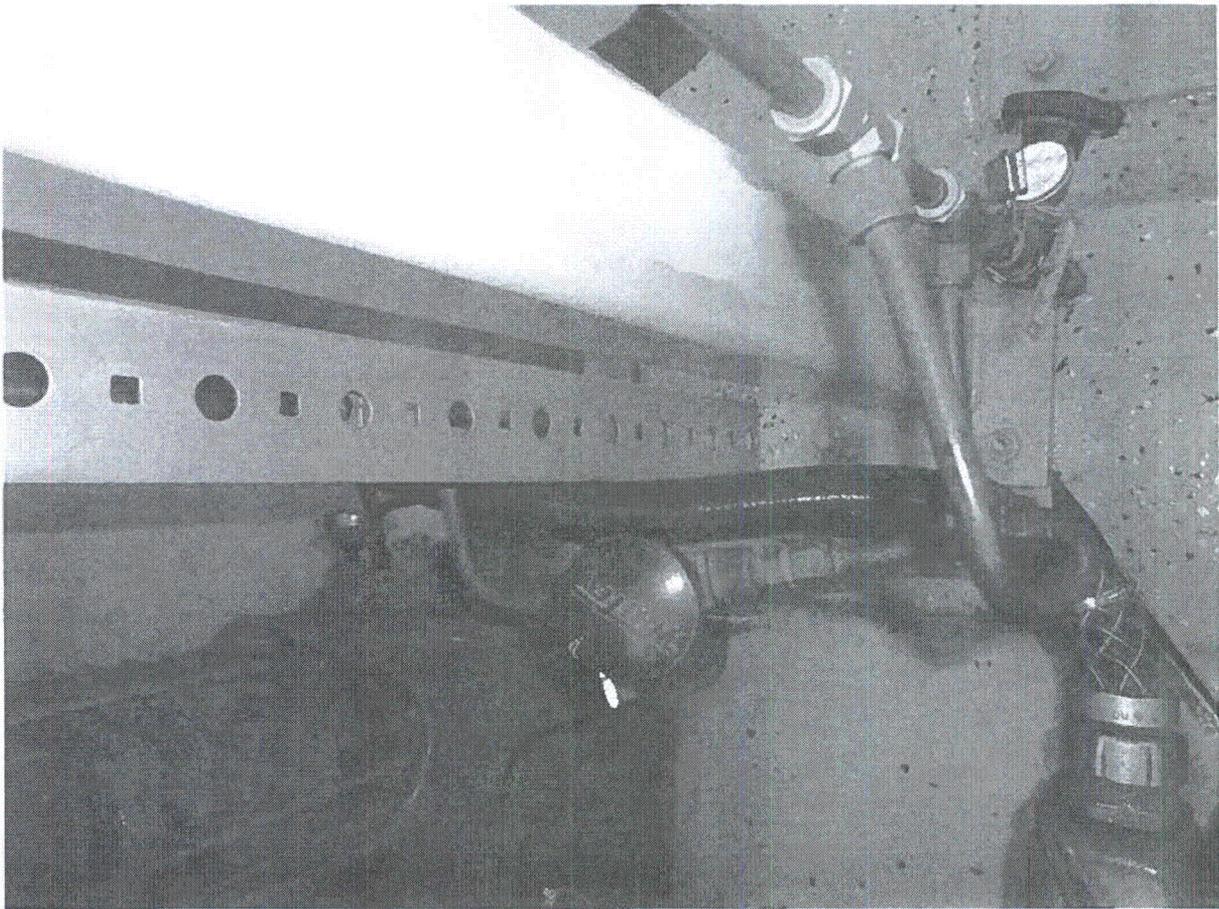
Photographs



1: Equipment MPL # (2R43-C006C)



2: Equipment Elevation (2R43-C006C)



3: Flex Conduit Bearing on Angle (2R43-C006C)



4: Housing Screw Missing (2R43-C006C)

Seismic Walkdown Checklist (SWC)Equipment ID No. 2R43-C005A Equip. Class¹ 12Equipment Description DG 2A AIR COMPRESSORLocation: Bldg. DIESEL Floor El. 130 Room, Area 2A

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)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
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.) Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2R43-C005A Equip. Class¹ 12

Equipment Description DG 2A AIR COMPRESSOR

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
Fluorescent light bulbs may fall and hit the equipment. However, this credible scenario will not result in significant damage to the compressor since it is rugged and the light bulb is very light.

9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

Comments (Additional pages may be added as necessary)

Area walk by is included with the package of generator 2A, 2R43-S001A.

Evaluated by: Kursat Kinali  Date: 9/7/2012

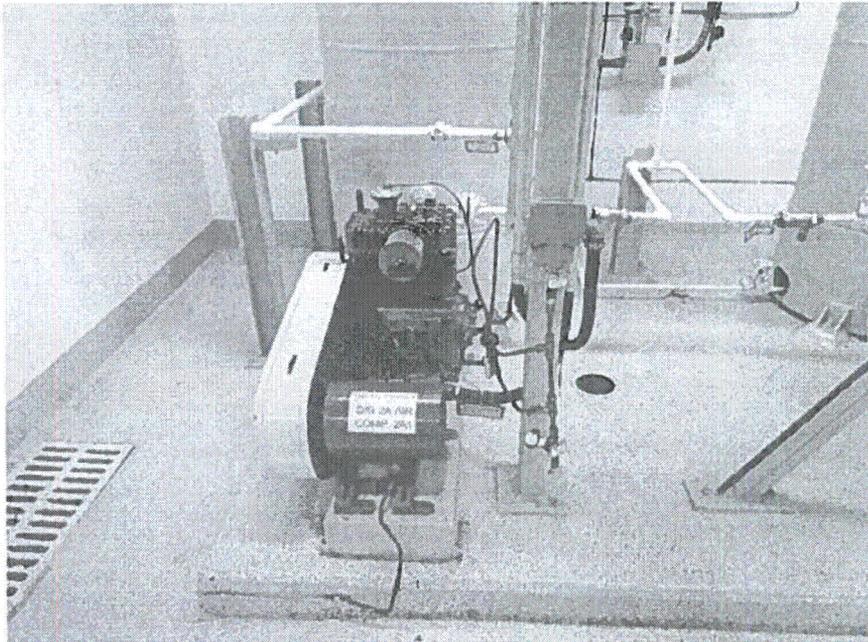
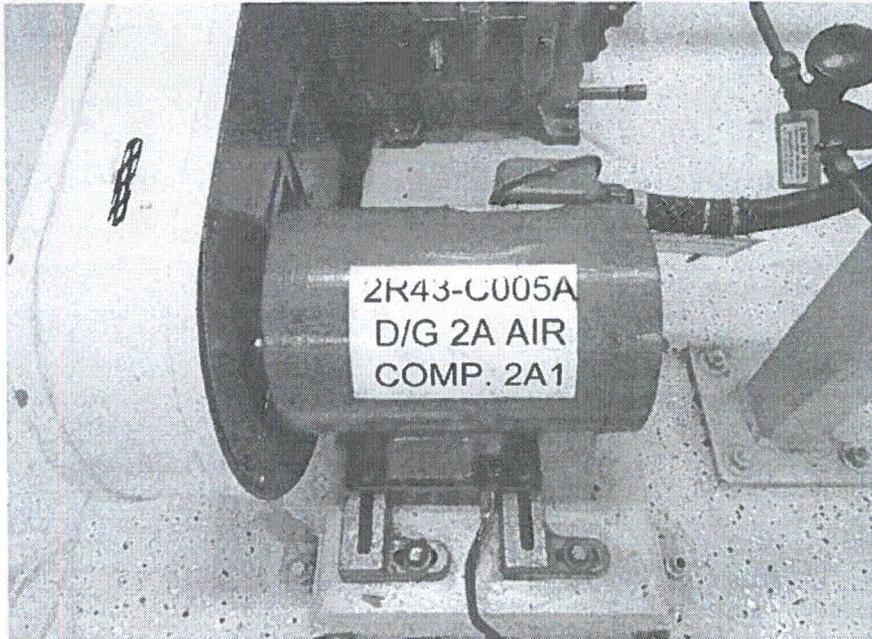
Wesley Williams  9/7/2012

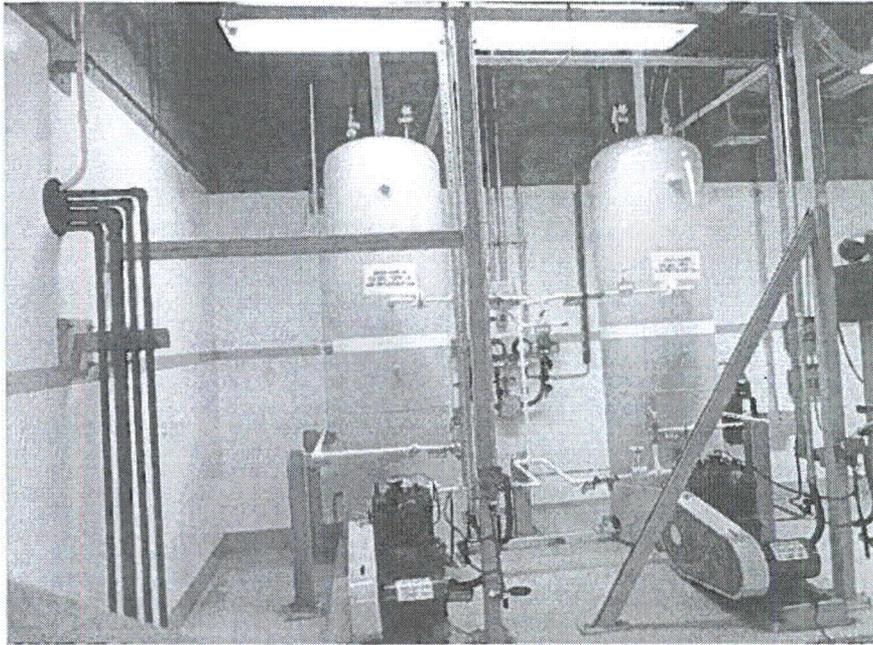
Seismic Walkdown Checklist (SWC)

Equipment ID No. 2R43-C005A Equip. Class¹ 12

Equipment Description DG 2A AIR COMPRESSOR

Photographs





Seismic Walkdown Checklist (SWC)Equipment ID No. 2R43-C005C Equip. Class¹ 12Equipment Description DG 2C AIR COMPRESSORLocation: Bldg. DIESEL Floor El. 130 Room, Area DIESEL GEN ROOM 2C

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)? Y N

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
A potential seismic condition was observed. Grout is missing from under the southeast anchor of the component pad (see photograph 3). CR 515115 was written to address this condition.

5. Is the anchorage configuration consistent with plant documentation? Y 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.)

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
See response to question 4.

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2R43-C005C Equip. Class¹ 12

Equipment Description DG 2C AIR COMPRESSOR

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A

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

9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
The flex conduit attached to the equipment as shown in photograph 3 is in contact with the sharp edge of a supporting angle. This condition is not considered adverse in a seismic event, due to the relative small duration of vibration. Long term fretting on the conduit may occur during operation when high frequency vibrations are constantly present. CR 515118 was created to address this condition.

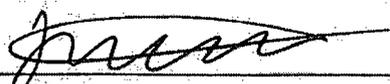
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

Comments (Additional pages may be added as necessary)

Walkby for this equipment is addressed in 2R43-S001C.

Evaluated by: Juan Vizcaya  Date: 09/10/2012

Patrick Kelly  09/10/2012

Status: Y N U

Seismic Walkdown Checklist (SWC)

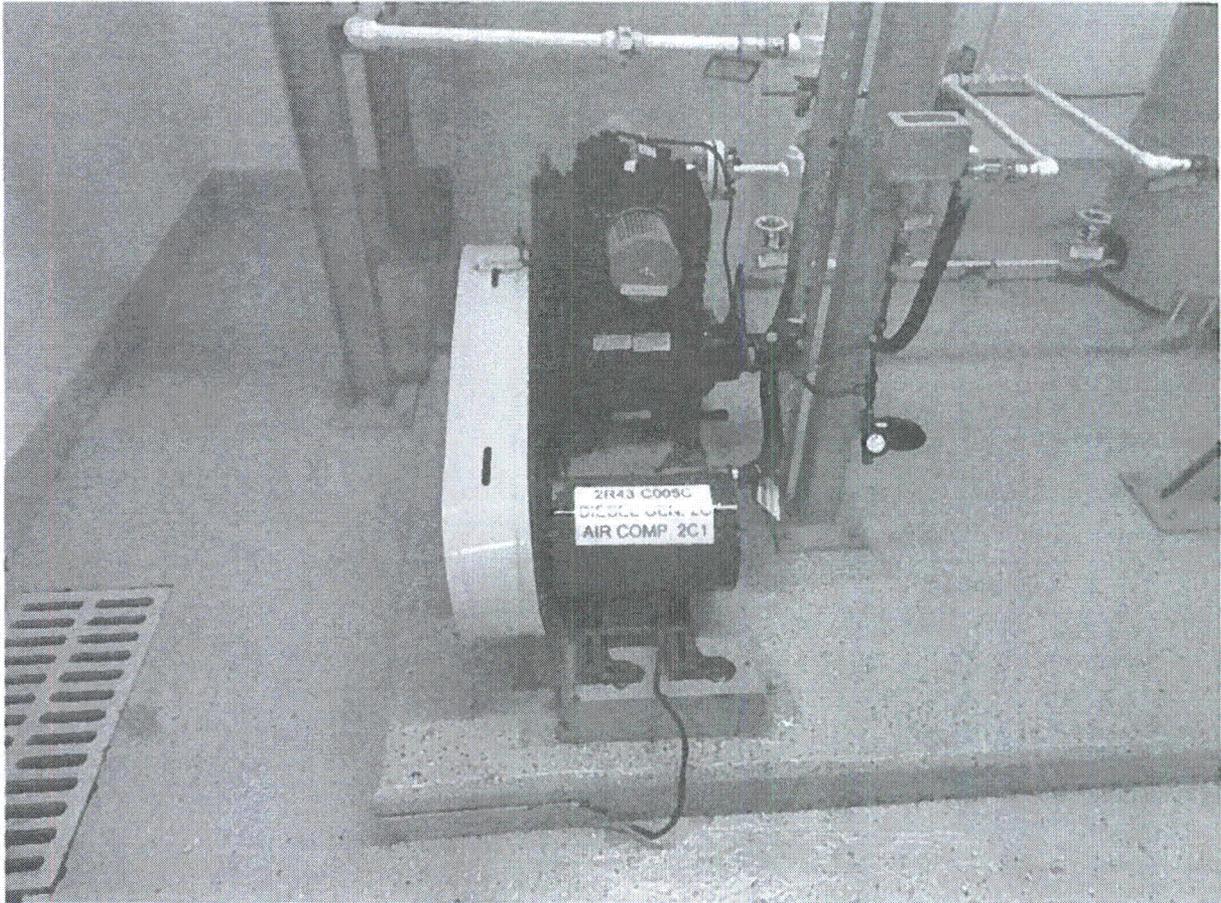
Equipment ID No. 2R43-C005C Equip. Class¹ 12

Equipment Description DG 2C AIR COMPRESSOR

Photographs



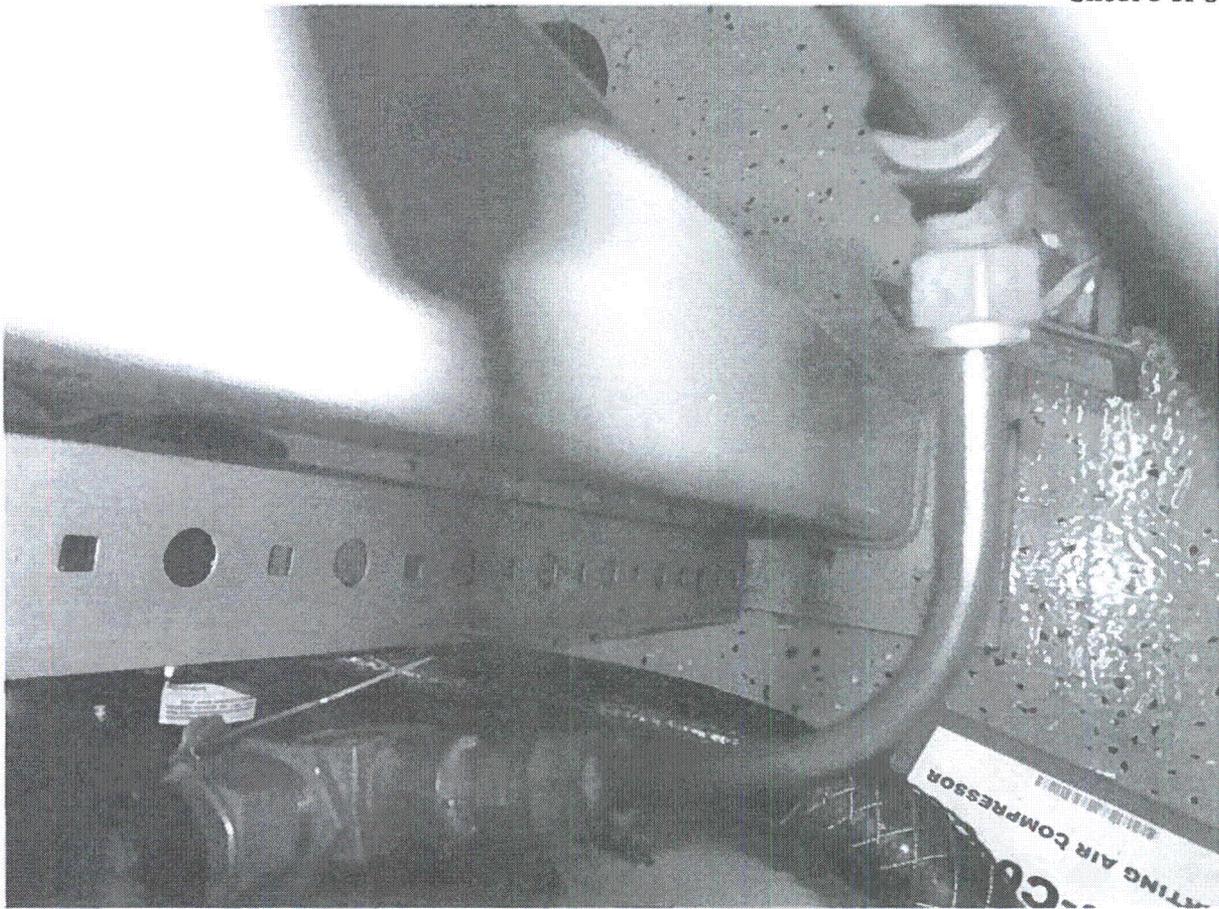
1: Equipment MPL # (2R43-C005C)



2: Equipment Elevation (2R43-C005C)



3: Missing Grout Condition (2R43-C005C)



4: Flex Conduit on Sharp Angle (2R43-C005C)

Status: Y N U **Seismic Walkdown Checklist (SWC)**Equipment ID No. 2C71-S001A Equip. Class¹ 13Equipment Description RPS MG Set A Motor GeneratorLocation: Bldg. CONTROL Floor El. 130 Room, Area C124

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)? Y N

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Equipment is anchored to the building structure with vibration isolators.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A

5. Is the anchorage configuration consistent with plant documentation? Y 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.)

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2C71-S001A Equip. Class¹ 13

Equipment Description RPS MG Set A Motor Generator

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A

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

The seismic capacity of the Concrete Block Walls C130-47E, C-139-54A, C130-51B, and C130-52A surrounding the component has been verified via drawing H-40383, Rev. 2 and Hatch Unit 2, UFSAR Table 3.8-20.

There is a fluorescent light fixture without a cover located over the component. The light is tied to the ceiling, so during a seismic event, only the bulb could fall. The motor generator is very rugged and is judged to have sufficient strength as to make a possible impact between the motor generator and the bulb will be insignificant. Therefore, it is judged to be seismically adequate by the SWE's.

9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A

Motion of the vibration isolators during a seismic event is considered small. Therefore, the flexibility of the attached lines is judged acceptable by the SWE's.

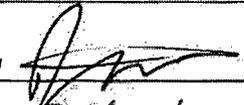
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

Comments (Additional pages may be added as necessary)

None

Evaluated by: John McFarland  Date: 09/06/2012

Jeff Horton  09/06/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2C71-S001A Equip. Class¹ 13

Equipment Description RPS MG Set A Motor Generator

Status: Y N U

Photographs

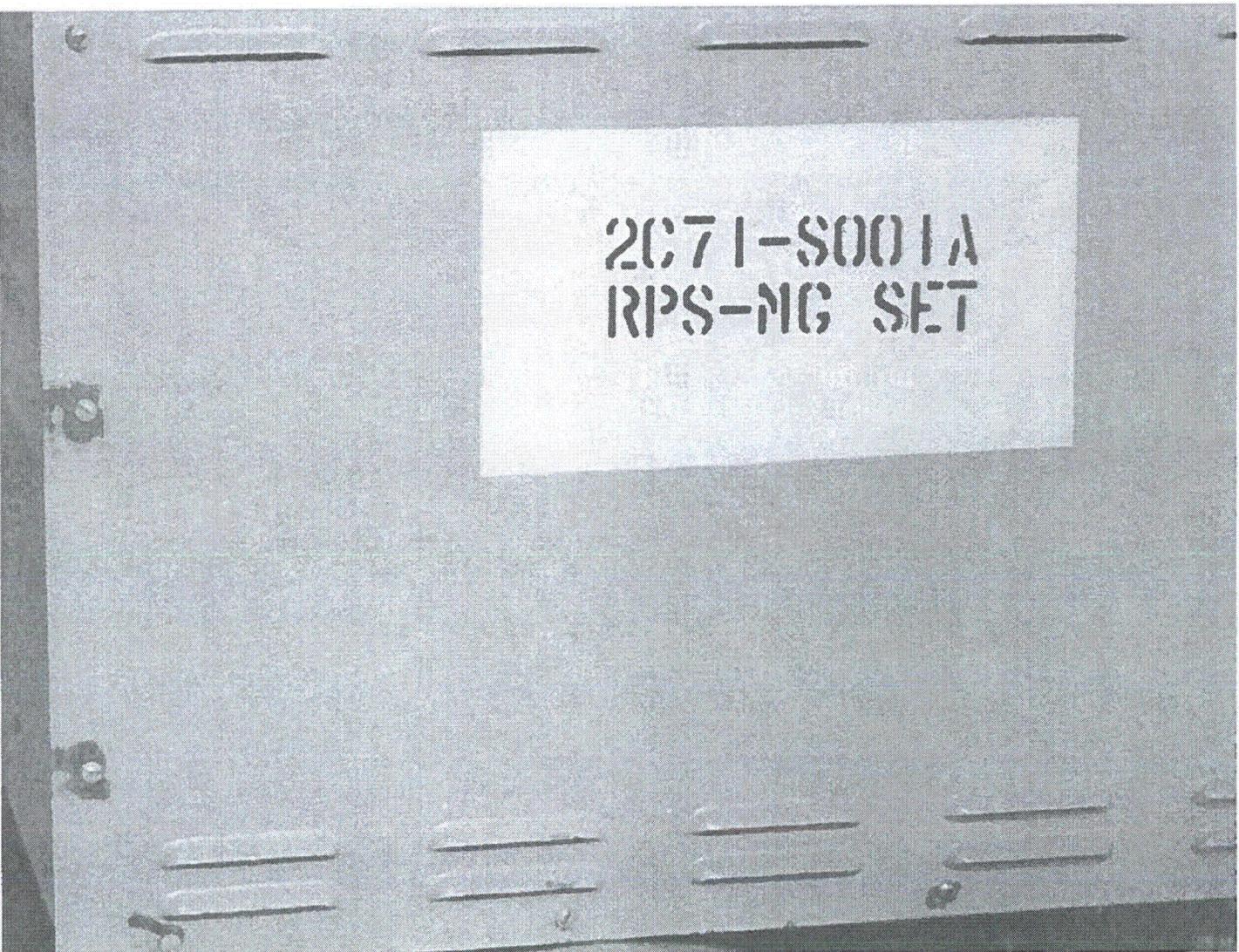


Figure 1 – Equipment ID No (2C71-S001A)

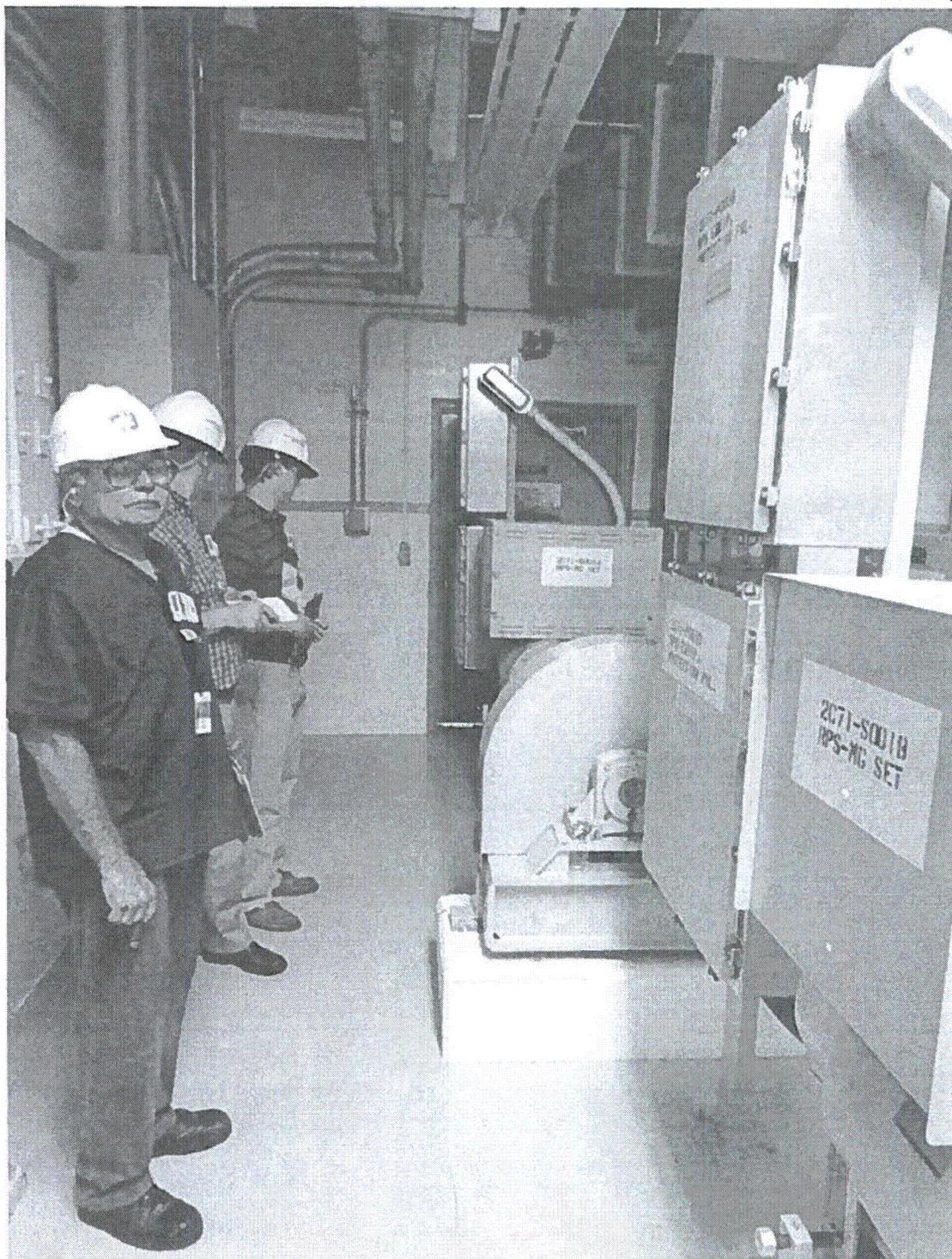


Figure 2 – Equipment Elevation (2C71-S001A)

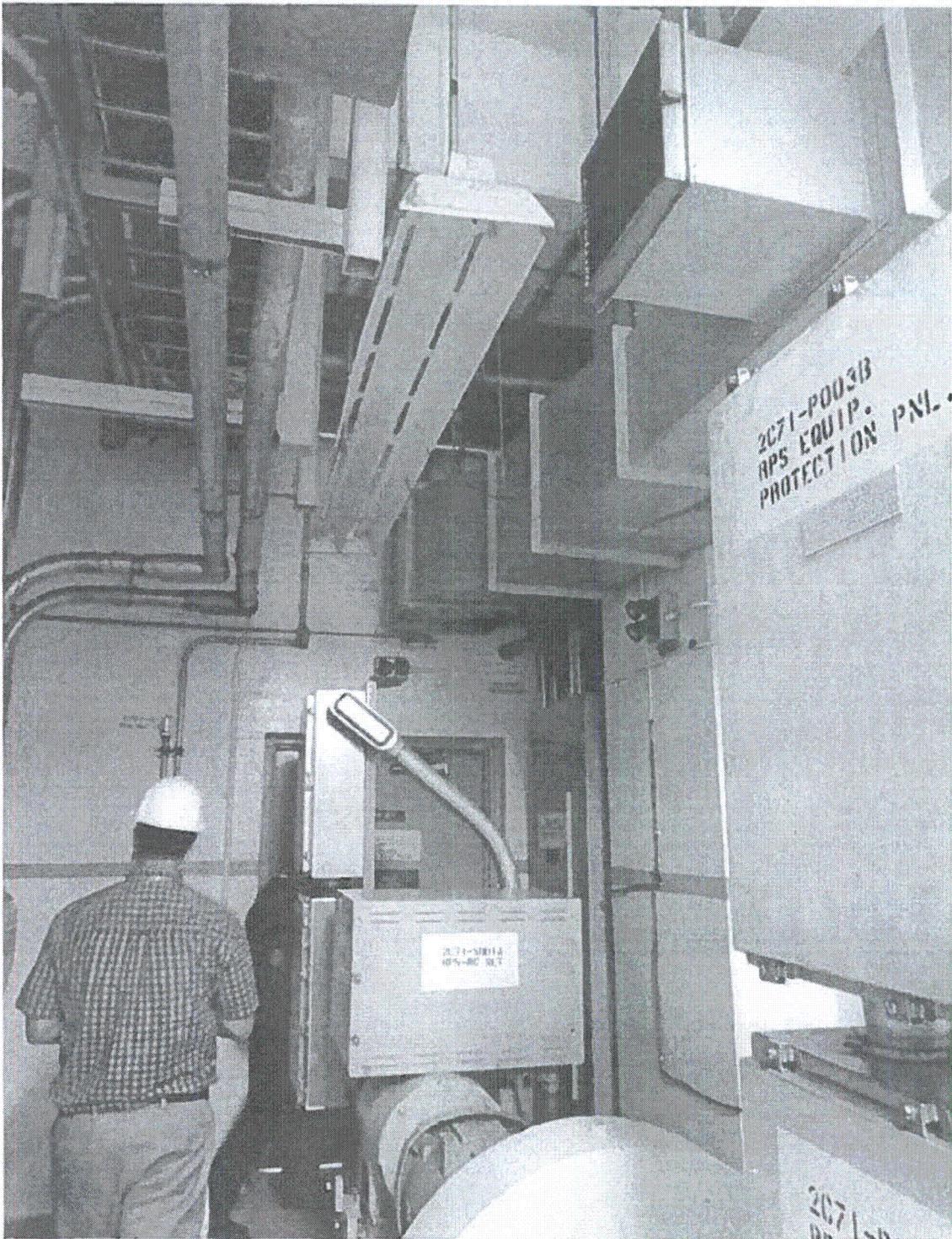


Figure 3 -- Light Fixture Above Motor Generator (2C71-S001A)

Seismic Walkdown Checklist (SWC)Equipment ID No. 2C71-S001B Equip. Class¹ 13Equipment Description RPS MG Set B Motor GenLocation: Bldg. CONTROL Floor El. 130 Room, Area TE-T12

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)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
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.) Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2C71-S001B Equip. Class¹ 13

Equipment Description RPS MG Set B Motor Gen

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A

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

The seismic capacity of the Concrete Block Walls C130-47E, C130-50B, C130-51A and C130-54A surrounding the Motor Generator were verified using Drawing H-40383 Rev. 2 and Hatch Unit 2 UFSAR

Table 3.8-20. There is a fluorescent light fixture without a cover located over the component. The light is tied to the ceiling, so during a seismic event, only the bulb could fall. The motor generator is very rugged and is judged to have sufficient strength as to make a possible impact between the motor generator and the bulb insignificant. Therefore, it is judged to be seismically adequate.

9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

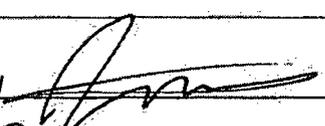
Other Adverse Conditions

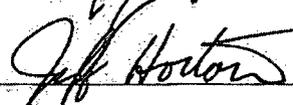
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

There are a number of drilled holes in the casing of the motor, particularly at anchorage locations. These holes appear to have been drilled to alter the balance of the motor and are clearly unrelated to component anchorage. Their presence does not indicate missing anchors or screws. Therefore, there is no potentially adverse seismic condition.

Comments (Additional pages may be added as necessary)

See Component 1C71-S001B for the Area Walk-by Checklist.

Evaluated by: John McFarland  Date: 09/17/2012

Jeff Horton  09/17/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2C71-S001B Equip. Class¹ 13

Equipment Description RPS MG Set B Motor Gen

Photographs

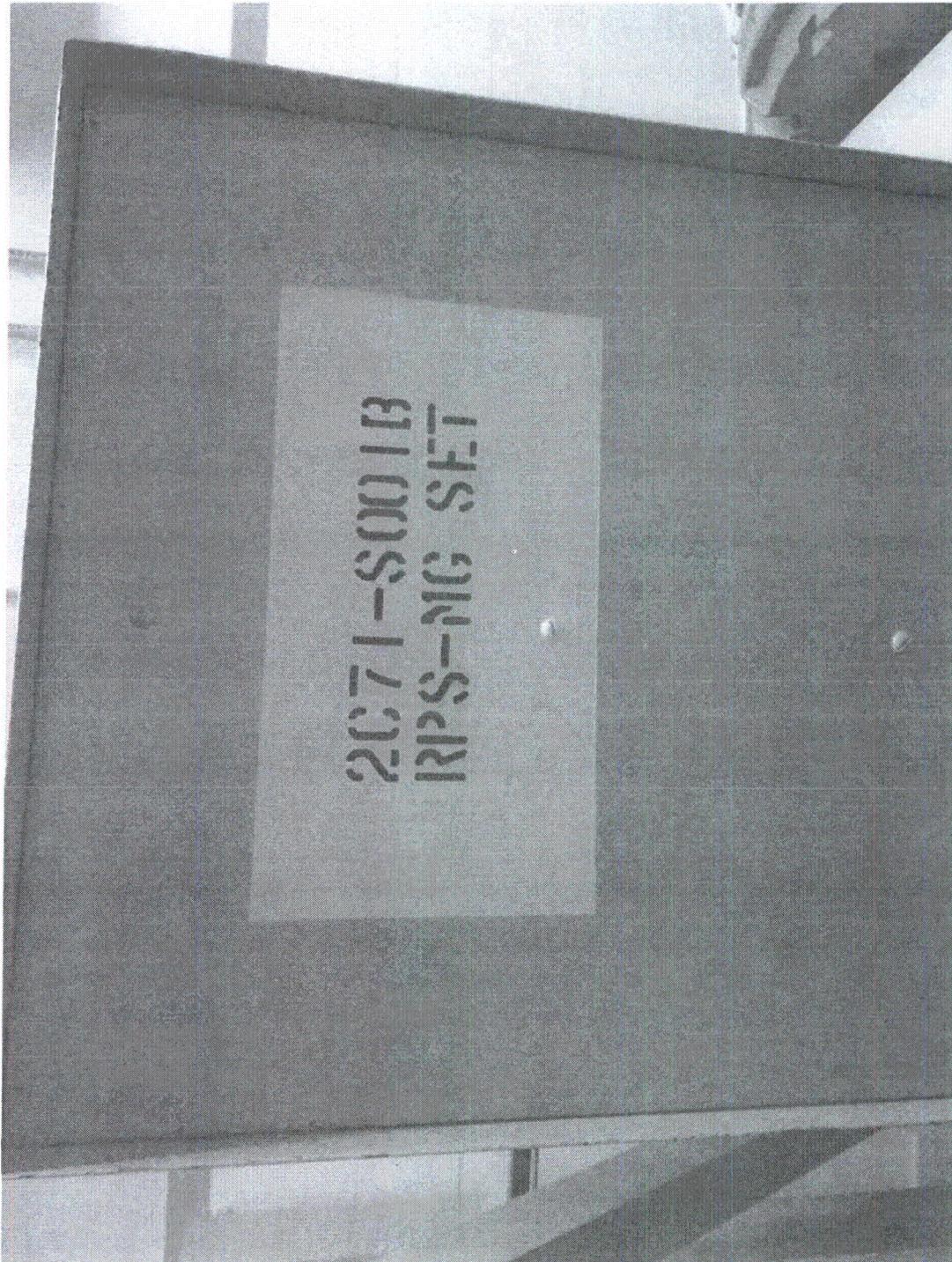


Figure 1 – Equipment ID No (2C71-S001B)

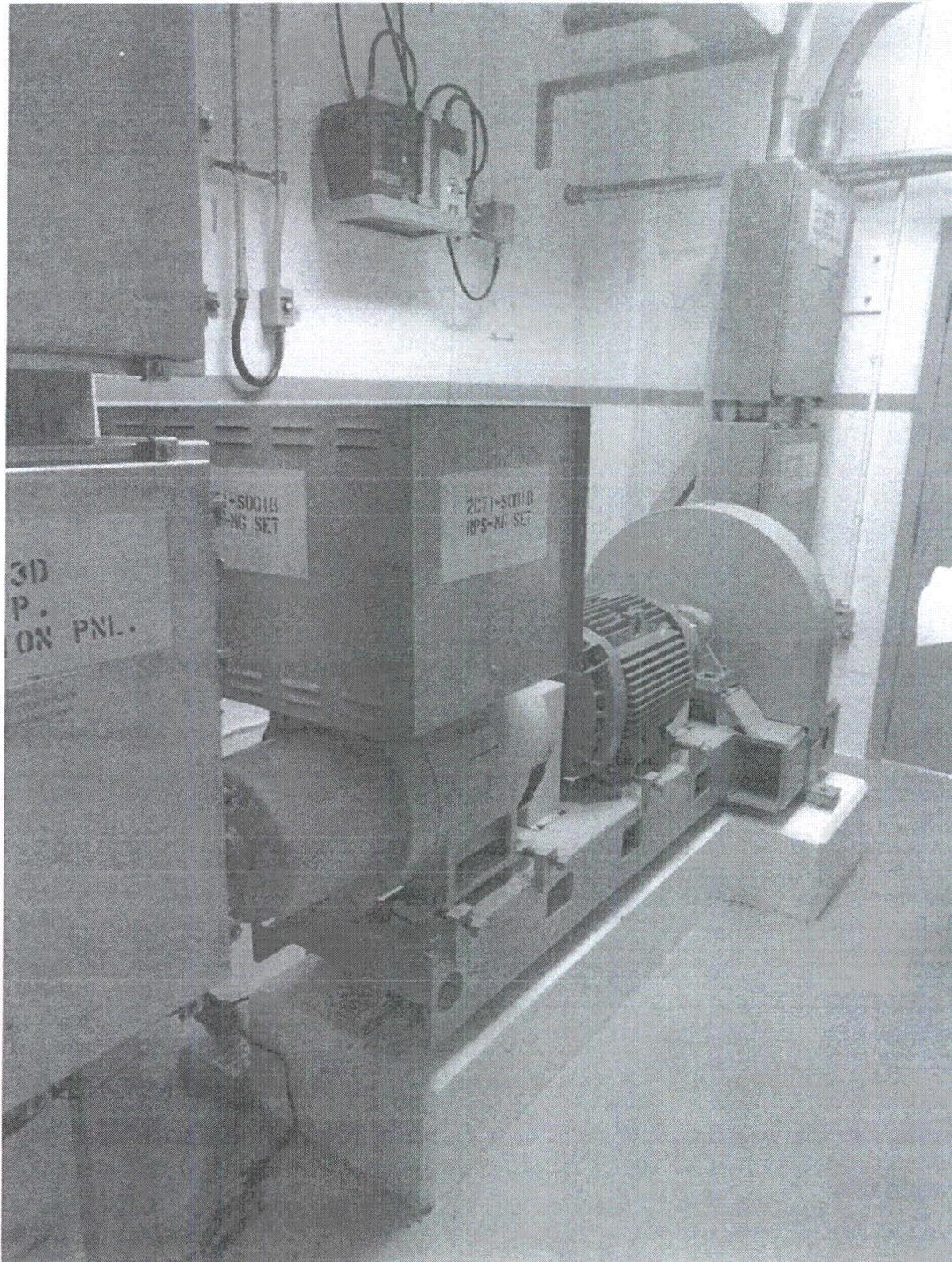


Figure 2 – Equipment Elevation (2C71-S001B)

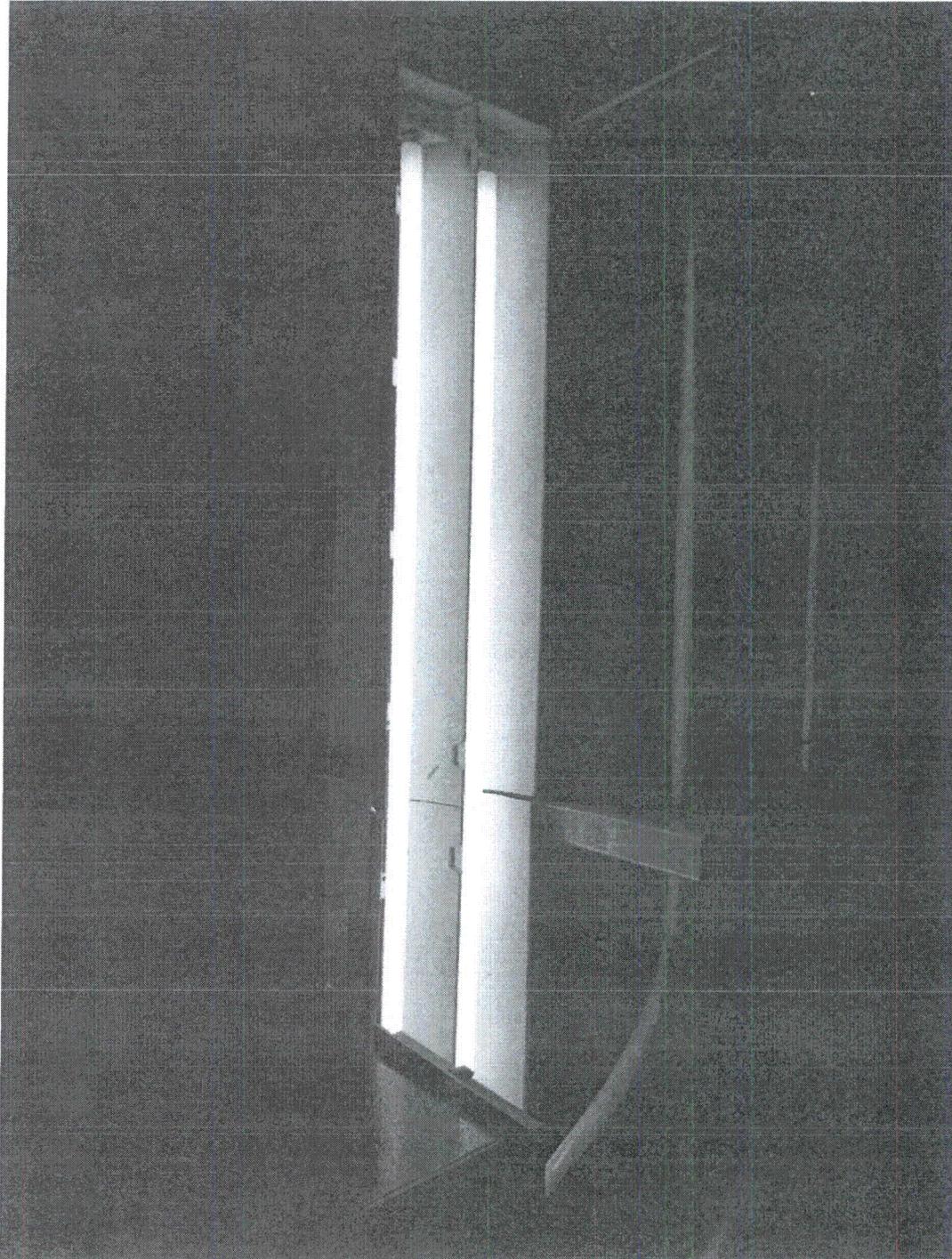


Figure 3 – Flourescent Light over Equipment (2C71-S001B)



Figure 4 – Drilled Holes in Motor Casing (2C71-S001B)

Seismic Walkdown Checklist (SWC)Equipment ID No. 2R42-S001A Equip. Class¹ 15Equipment Description 125/250V Station Battery 2ALocation: Bldg. CONTROL Floor El. 112 Room, Area Unit 2 Station Battery Room 2A

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)? Y N

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
There are several locations where the original anchor bolts have been replaced with a different anchor bolt type, including one location where a second hole was drilled in the frame. This replacement is addressed in the SEWS package, and so is acceptable. The empty hole is for an abandoned anchor bolt, and the existing anchors are consistent with the plant documentation, so there is no potentially adverse seismic condition.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
There is some acid residue on the bolts from the batteries, but the paint has prevented any significant corrosion of the bolts. Since the corrosion is only on the surface, there is no potentially adverse seismic condition.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A

5. Is the anchorage configuration consistent with plant documentation? Y 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.)
SEWS Package 2R42-S001A (dated 2-14-94)

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

Seismic Walkdown Checklist (SWC)Equipment ID No. 2R42-S001A Equip. Class¹ 15Equipment Description 125/250V Station Battery 2A**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

Comments (Additional pages may be added as necessary)*None*Evaluated by: John McFarlandDate: 09/25/2012Jeff Horton09/25/2012

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2R42-S001A Equip. Class 15

Equipment Description 125/250V Station Battery 2A

Photographs

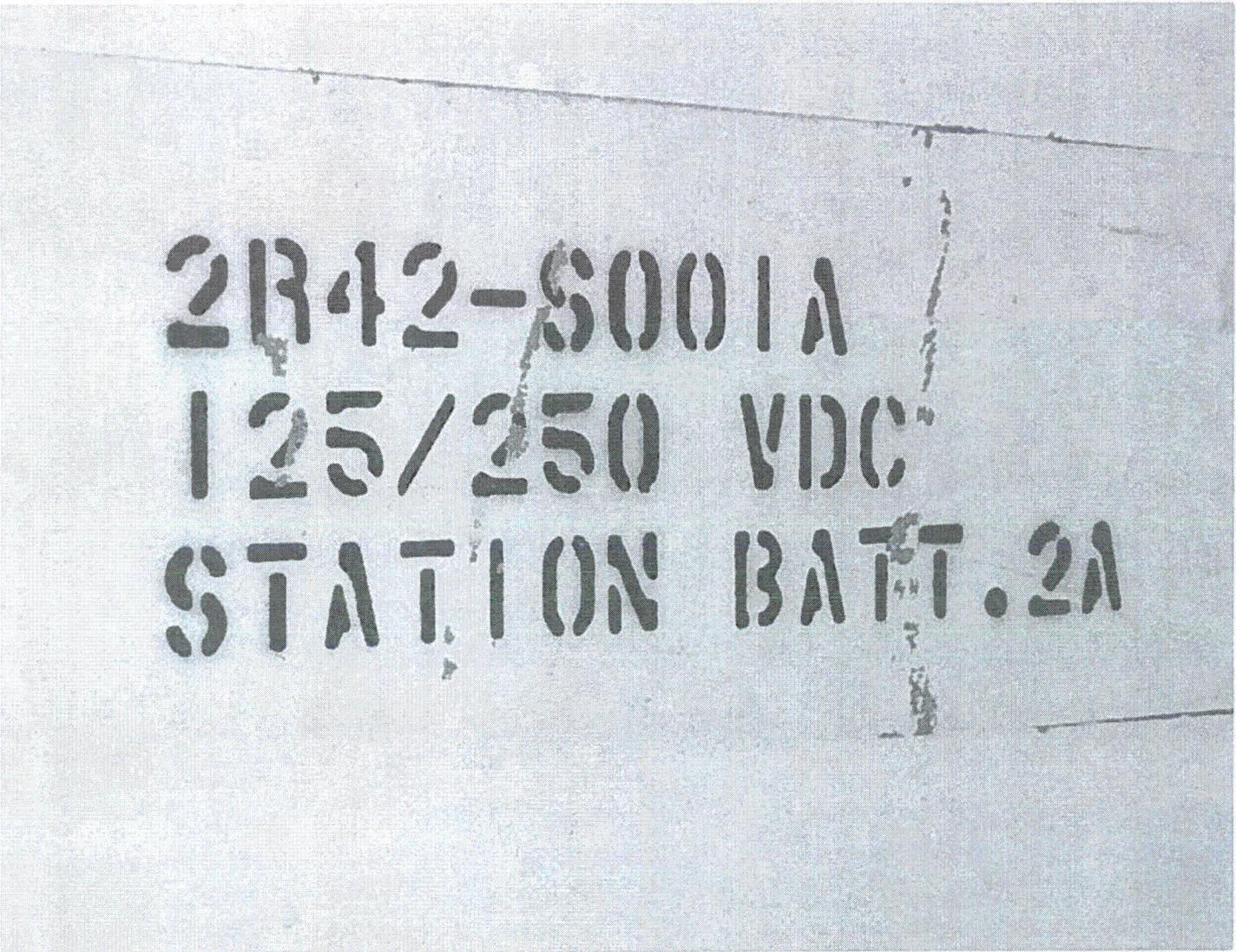


Figure 1 – Equipment ID No (2R42-S001A)

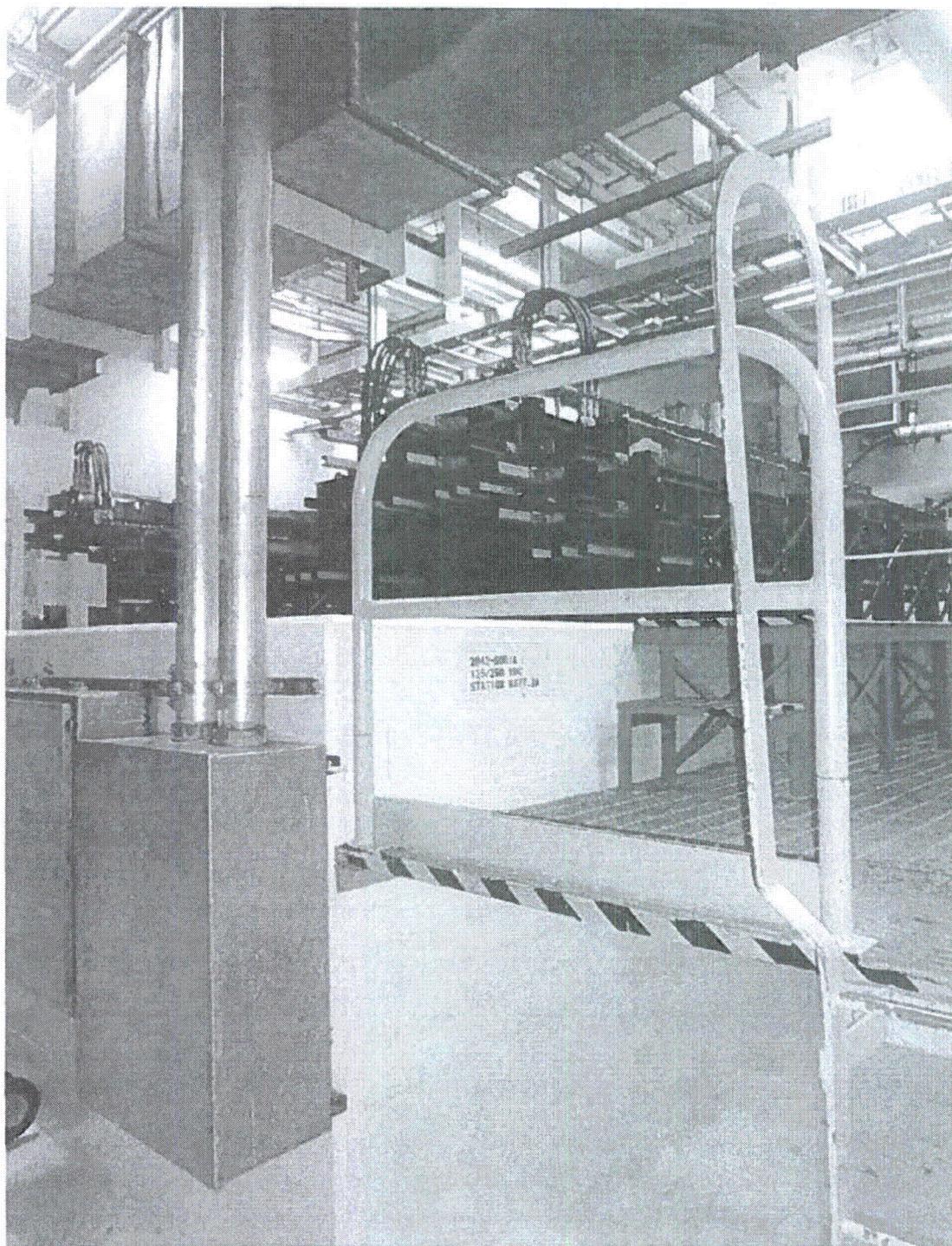


Figure 2 – Equipment Elevation (2R42-S001A)

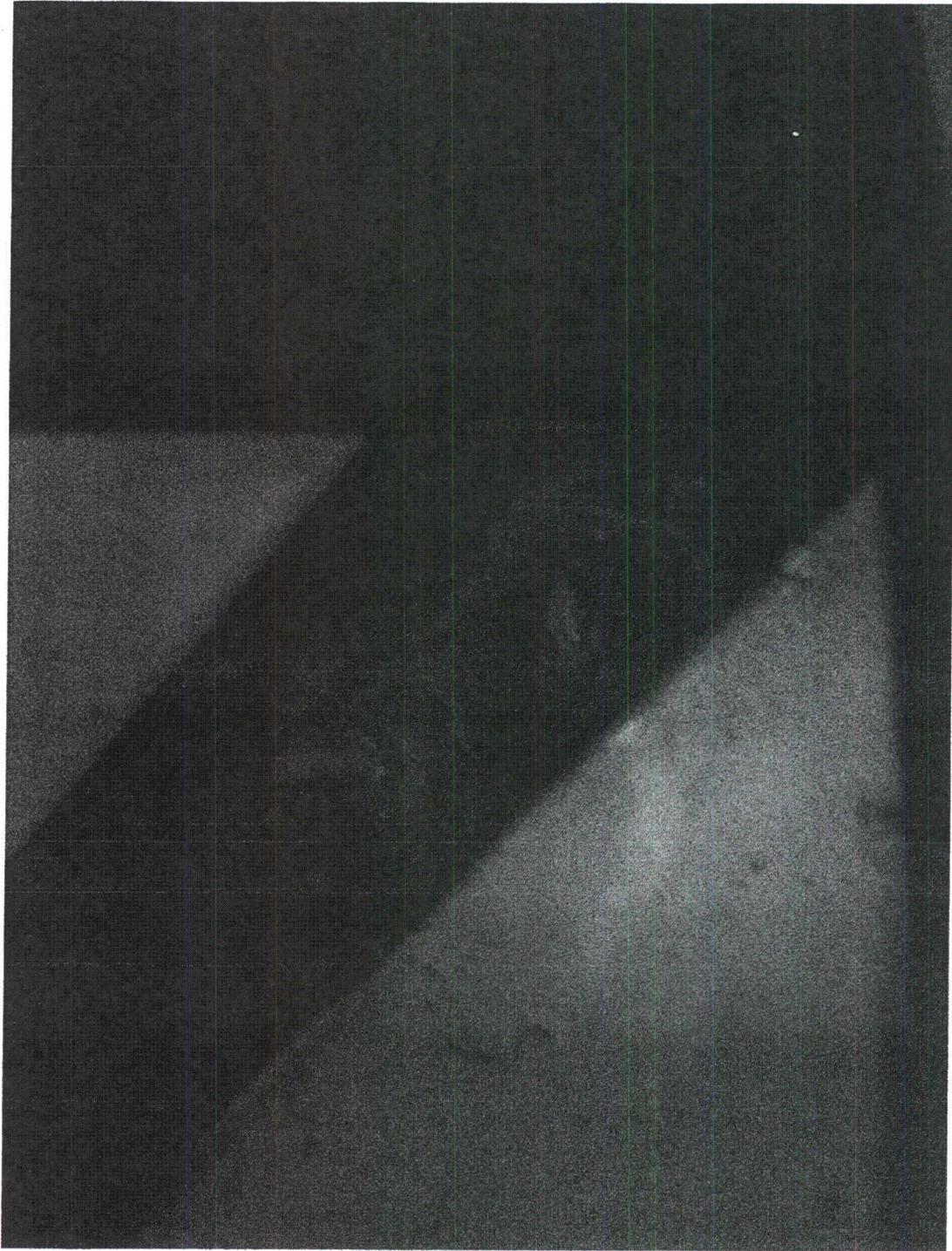


Figure 3 – Abandoned Anchor Hole (2R42-S001A)

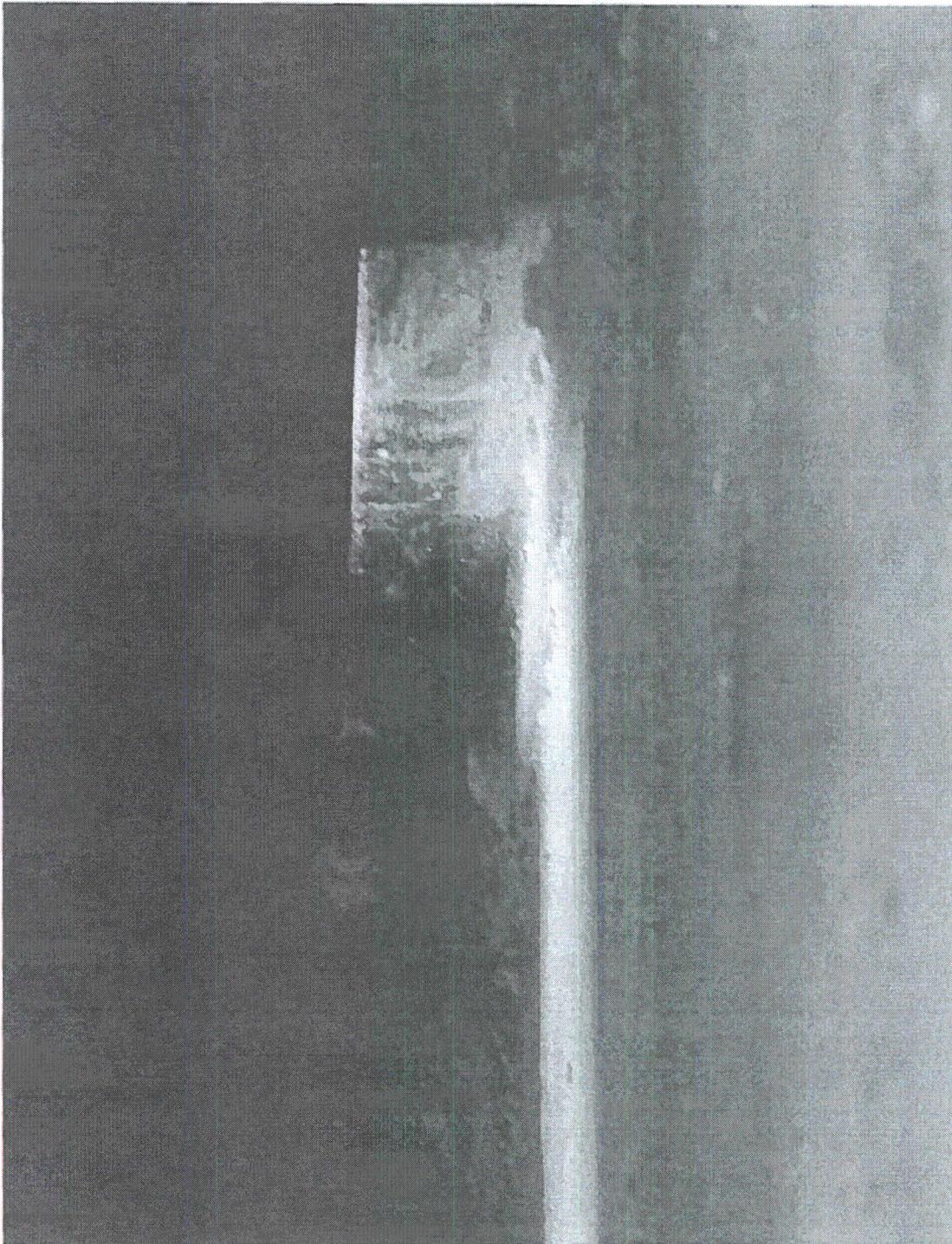


Figure 4 – Mild Acid Residue on Bolts (2R42-S001A)

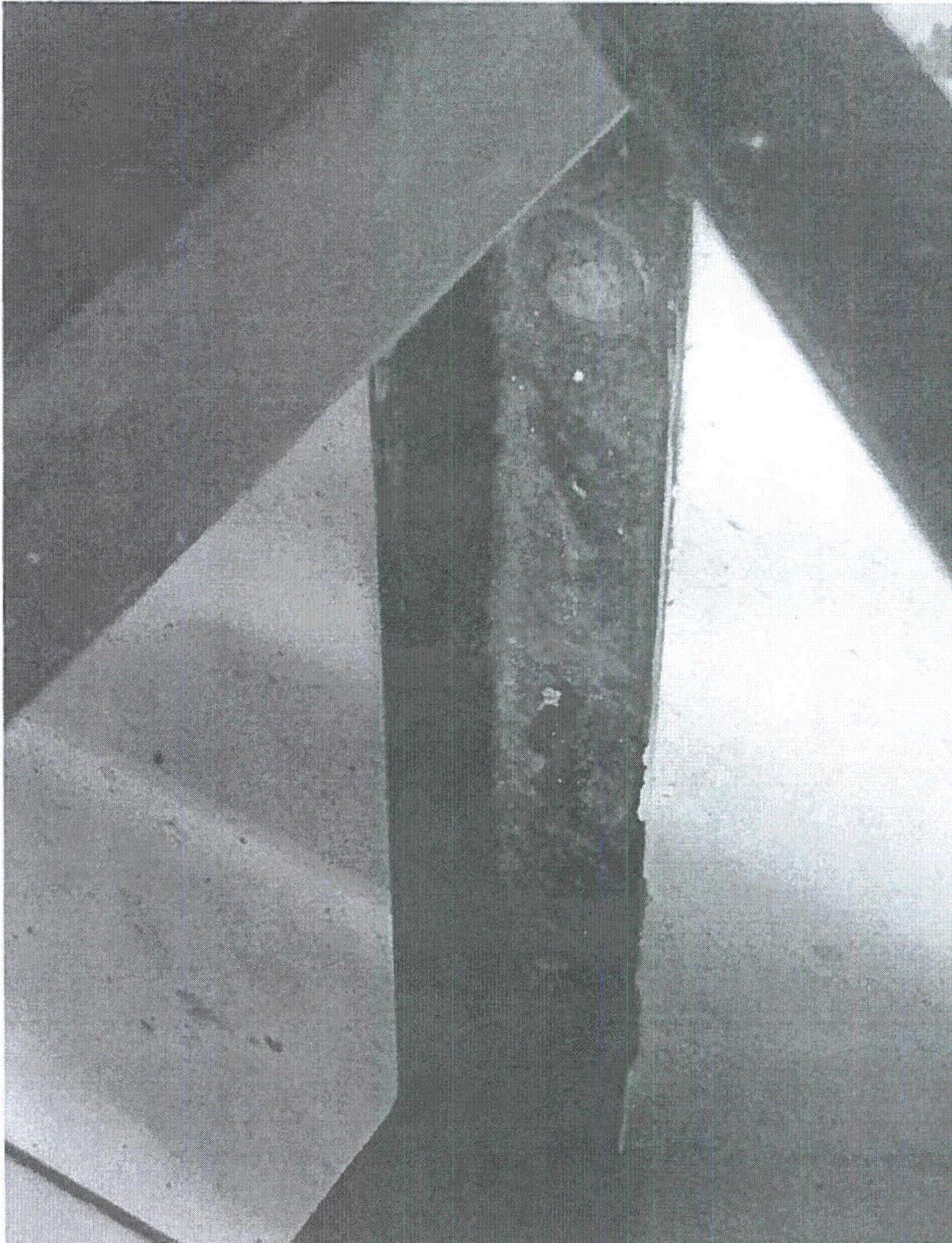


Figure 5 – Mild Oxidation on Bolts (2R42-S001A)