NJPR-12-0043

Sheet 1 of 3 Status: N U

RHR1-1

					11	111(1-1
	Walk-By Checklis ts: E1151C001C	t (AWC)				
Locat	ion: Bldg. RHR	Floor El. 590'-0"	Room, Area ¹	SRHRPR, Di	v. I Pump Room	
This o	below each of the fol	ing Checklist to document the result llowing questions may end at the end of this che	be used to record	the results of	judgments and f	
	. Does anchorage of adverse seismic corcabinets)?	equipment in the area and itions (if visible with wed adverse seismic co	appear to be free of tout necessarily of	of potentially pening	YÌZÍN□U□	N/A
2	degraded conditions	eling paints, only mino			UU □N MY	N/A□
3	raceways and HVA seismic conditions (conditions of cable	nspection from the flood C ducting appear to be (e.g., condition of supp trays appear to be inside the cit raceways are adequate	e free of potentiall ports is adequate a de acceptable limi	y adverse ind fill	YM N□ U□	N/A□
4.	interactions with other lighting)?	the area is free of potenther equipment in the and the areas are adequately so	rea (e.g., ceiling ti		YX NO UO	N/A□

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

NJPR-12-0043

Sheet 2 of 3 Status: (M) N U RHR1-1

Area Walk-By Checklist (AWC)

Assets	: E1151C001C				
Locatio	on: Bldg. <u>RHR</u>	Floor El. 590'-0"	Room, Area	SRHRPR, Di	iv. I Pump Room
	interactions that cou	the area is free of potentiald cause flooding or spraining only detectors	y in the area?		Y∭X N□ U□ N/A□
	interactions that cou	the area is free of potenti ald cause a fire in the are arial identified in the area	a?	smic	YXN□ U□ N/A□
	interactions associa	the area is free of potenti ted with housekeeping pr porary installations (e.g.,	actices, storage	of portable	YN N□ U□ N/A□
	•	r and found no other seis safety functions of the e			YM N□ U□
Comm	ents (Additional page	s may be added as necessar	у)		
	None				

NJPR-12-0043

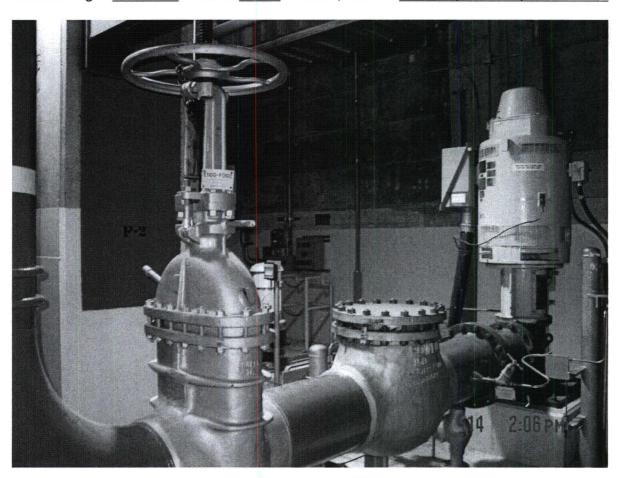
Sheet 3 of 3 Status: (Y) N U

RHR1-1

Area Walk-By Checklist (AWC)

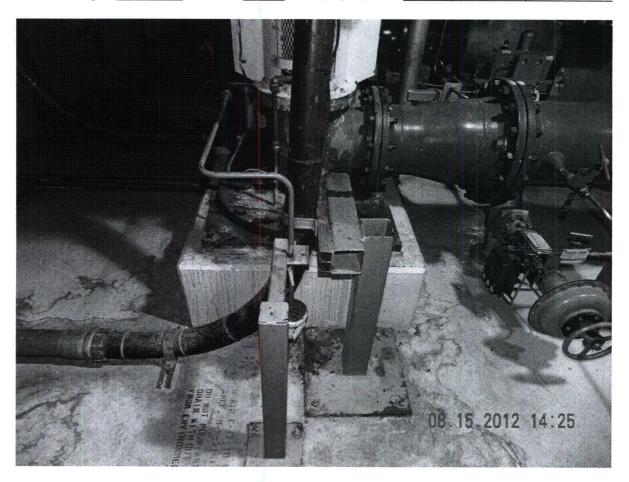
Assets: <i>E1151C001C</i>		
Location: Bldg. RHR Floor El. 590'-0" Room, Area SRHRPR, Di	v. I Pump	Room
🛭 Seismic Engineer Walkdown PSE-53Qualified		
Evaluator #1: Zonnaller	Date: _	8/14/12
· · · · · · · · · · · · · · · · · · ·		
Seismic Engineer Walkdown PSE-53Qualified		
Evaluator #2:	Date: _	08/14/12
, ,		•

Location: Bldg. RHR Floor El. 590'-0" Room, Area SRHRPR, Div. I Pump Room



(DSC 01357)

Location: Bldg. RHR Floor El. 590'-0" Room, Area SRHRPR, Div. I Pump Room



(DSCN 0389)

NJPR-12-0043

Sheet 1 of 3 Status: Y N U

RHR1-2

Area Walk-By Checklist (AWC) Assets: P4500C002B	
Location: Bldg. RHR Floor El. 590'-0" Room, Area NRHRP	R, Col. E-11
Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near space below each of the following questions may be used to record the result Additional space is provided at the end of this checklist for documenting other spaces.	ts of judgments and findings.
	ally Y⊠ N□ U□ N/A□
 Does anchorage of equipment in the area appear to be free of signific degraded conditions? No significant degradation in the area. 	ant Y⊠ N□ U□ N/A□
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Some of the embedded plates in the ceiling support the HVAC on the west side of the room exhibit minor surface corrosion, but not enough affect seismic operability. All raceways and ducting are appropriate supported.	h to
 (See Picture 13) 4. Does it appear that the area is free of potentially adverse seismic spat interactions with other equipment in the area (e.g., ceiling tiles and lighting)? There are two pieces of portable equipment nearby (firefighting cart emergency eye wash) that are appropriately restrained per MOP23. 	ial Y⊠ N□ U□ N/A□

MPS 10/4/12

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

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Sheet 2 of 3 Status: (Y) N U

RHR1-2

Area Walk-By Checklist (AWC)

Assets:	P4500C002B				
Location	n: Bldg. <u>RHR</u>	Floor El. 590'-0"	Room, Area NRHRI	PR, Col. E-11	
i		e area is free of potention of cause flooding or sprace concerns.		Y⊠ N□ U□ N/A□	
i		e area is free of potention of cause a fire in the area cards in the vicinity.		Y⊠ N□ U□ N/A□	
i e s	interactions associate	e area is free of potention of with housekeeping property installations (e.g.,	actices, storage of porta	Y⊠ N□ U□ N/A□	
a		and found no other seis afety functions of the ed		Id YX ND UD	
Comme	ents (Additional pages	may be added as necessar	у)		
1	None.				

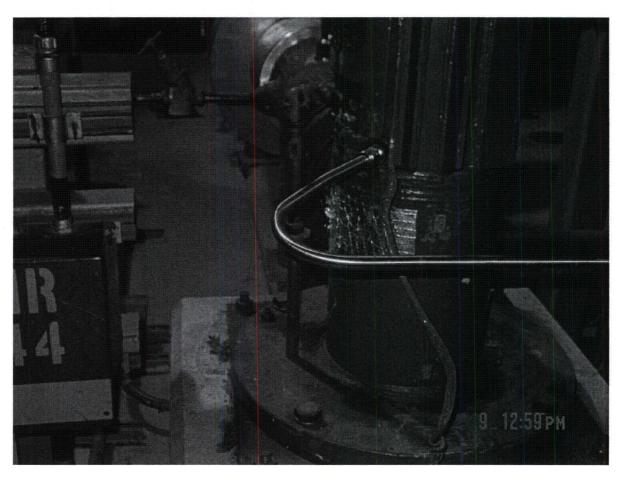
MPS 10/4/12

NJPR-12-0043

Sheet 3 of 3 Status: N U

ASSETS! P4500 C002B	RHR1-Z
Location: Bldg. RHR Floor El. Room, Area Div. 2 Pump	Room (area near P45000002B)
NRHRPR, C Seismic Engineer Walkdown PSE-53Qualified Evaluator #1: March Date	te: <u>8/16/12</u>
Seismic Engineer Walkdown PSE-53Qualified Evaluator #2: Scott Game Date	te: <u>8/16/1)</u>

Location: Bldg. RHR Floor El. 1 (590'-0") Room, Area NRHRPR, Col. E-11



(Picture 10)

Location: Bldg. RHR Floor El. 1 (590'-0") Room, Area NRHRPR, Col. E-11



(Picture 13)

NJPR-12-0043

Area Walk-By Checklist (AWC)

Sheet 1 of 3 Status: N U

RHR1-3

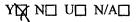
Assets: R3000A011		
Location: Bldg. RHR	Floor El. <u>590'-0"</u>	Room, Area ¹ EDG11, Col. 6-6 ₁ /B-D
Instructions for Complet	ing Checklist	
This checklist may be used	I to document the results	of the Area Walk-By near one or more SWEL items. The

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

adverse seismic conditions (if visible without necessarily opening
cabinets)?
All nearby equipment was found to be well anchored, therefore, nearby
equipment will remain in place during a seismic event.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?

1. Does anchorage of equipment in the area appear to be free of potentially

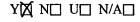


YX N U U N/A

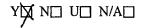
No corrosion or degraded conditions.

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?

No cable trays or HVAC ductwork in this area. Cable/conduit raceways are adequately supported. (see Photo DSCN 0528)



4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?



No ceiling tiles in the area. Suspended lights are adequately secured. (see Photo DSCN 0529)

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

NJPR-12-0043

Sheet 2 of 3 Status: (Y) N U RHR1-3

Area Walk-By Checklist (AWC)

Assets: R3000A011				
Location: Bldg. <u>RHR</u> Floor El. <u>590'-0"</u> Room, Area <u>EDG11, Col. 6-6_L/B-D</u>				
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? The area does not have fire protection piping or sprinkler system. CO ₂ lines and other piping are adequately supported. No concern with flooding or spray in this area.	YX NO UO N/AO			
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Fire detectors/sensors are in the area. Part of the area houses emergency diesel generator. No adverse seismic interaction conditions were found that could cause a fire.	Y¤(N□ U□ N/A□			
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Housekeeping and storage of portable equipment are not a concern. Overall area is in good condition.	YX NO UO N/AO			
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? No other seismic conditions identified that could adversely affect equipment safety functions. Overall area is clean	YX NO UO			
Comments (Additional pages may be added as necessary)				

N/A

NJPR-12-0043

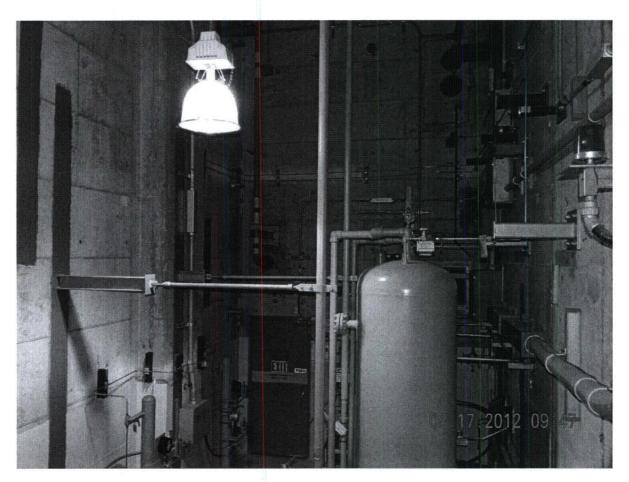
Sheet 3 of 3 Status: N U

RHR1-3

Area Walk-By Checklist (AWC)

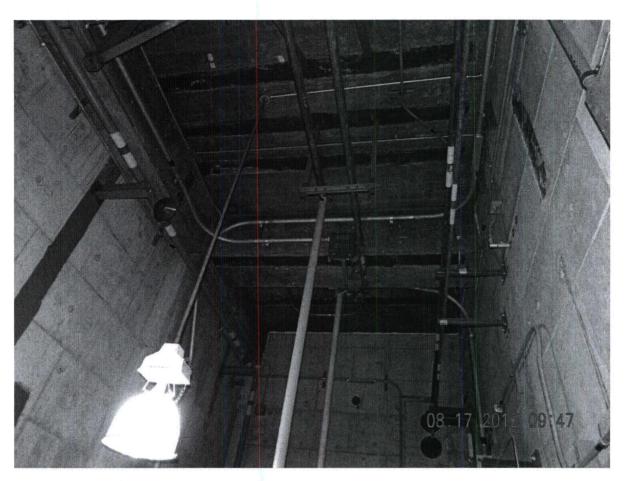
Assets: K5000A011				
Location: Bldg. RHR	Floor El. <u>590'-0"</u>	_ Room, Area ¹	EDG11, Col. 6-6 ₁ /B	?-D
<u> </u>	ngineer Walkdown PSE-	53 Qualified		C In io
Evaluator #1:	musery		Date:	8-17-12
₩ Seismic E	ngineer Walkdown PSE-	53 Oualified		
Evaluator #2 :	My		Date:	08/17/12

Location: Bldg. RHR Floor El. 590'-0" Room, Area EDG11 / Col. 6-6₁/B-D



(DSCN 0528)

Location: Bldg. RHR Floor El. 590'-0" Room, Area EDG11 / Col. 6-6₁/B-D



(DSCN 0529)

NJPR-12-0043

Sheet 1 of 3 Status: N U

RHR1-4

Area Walk-By Checklist (AWC) Assets: R3000D002	AUMT-4
Location: Bldg. RHR Floor El. 590'-0" Room, Area EDG12/Co.	l. C -5.1
Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near one space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other co	judgments and findings.
 Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Anchorage of components is free of adverse seismic conditions – no loose, broken or bent anchorages. 	YØ N□ U□ N/A□
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? No degraded conditions found in the area.	YE NO UO N/AO
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? No cable trays or HVAC ductwork in this area. Cable/conduit raceways are adequately supported.	YM NO UO N/AO
4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? No ceiling tiles in the area. Lights are securely attached to the ceiling.	YE NO UO N/AO

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

NJPR-12-0043

Sheet 2 of 3 Status: (Y) N U

RHR1-4

Area Walk-By Checklist (AWC)

Assets: <i>R3000D002</i>	
Location: Bldg. <u>RHR</u> Floor El. <u>590'-0"</u> Room, Area <u>EDG12/Co</u>	ol. C-5,1
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? The area does not have fire protection piping or sprinkler system. CO ₂ lines and other piping are adequately supported. No concern with flooding or spray in this area (see Photo DSCN 0535).	YZ NO UO N/AO
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Since part of the area houses an emergency diesel generator, there are numerous fire detectors/sensors in the area. No adverse seismic interaction condition found that could cause a fire.	YM NO UO N/AO
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? No temporary installations were identified. The overall area is considered to be in good clean condition and free of potentially adverse seismic interaction conditions.	YU NO UO N/AO
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? No adverse seismic conditions found (see Photo DSCN 0538).	YE NO UO
Comments (Additional pages may be added as necessary)	

N/A

NJPR-12-0043

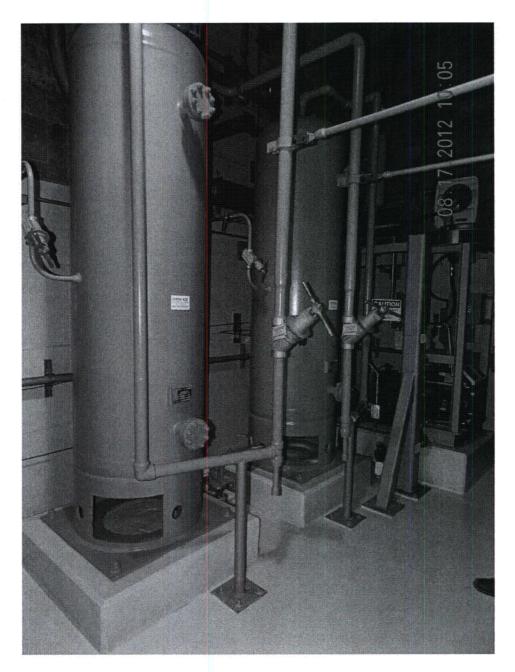
Sheet 3 of 3 Status: N U

RHR1-4

Area W	/alk-By	Checklist	(AWC)						
Assets:	R3000L	0002								
					 	 	1	 	 	

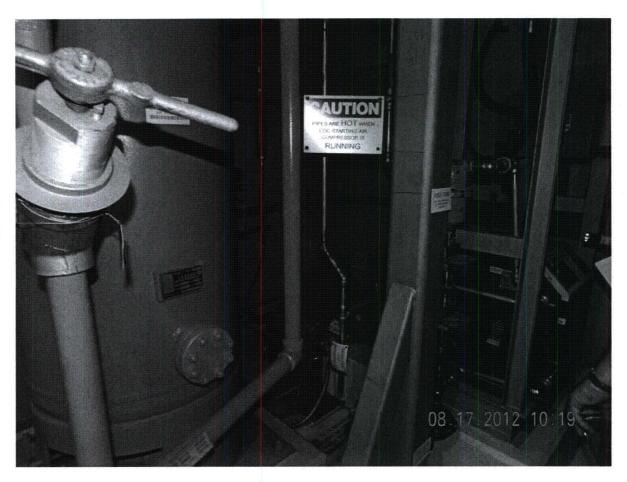
Location: Bldg. <u>RHR</u> Floor El. <u>590'-0"</u> Room, Area <u>EDG12/Col. C</u> -	5.1
Seismic Engineer Walkdown PSE-53 Qualified	
Evaluator #1: Date Date Date Date Date Date Date Date	e: <u>8-17-12</u>
🔀 Seismic Engineer Walkdown PSE-53 Qualified	
Evaluator #2: Dat	e: Oalizlia

Location: Bldg. RHR Floor El. 590'-0" Room, Area EDG12, Col. C-5.1



(DSCN0535)

Location: Bldg. RHR Floor El. 590'-0" Room, Area EDG12, Col. C-5.1



(DSCN0538)

NJPR-12-0043

Area Walk-By Checklist (AWC)

Sheet 1 of 3 Status: Y N U

RHR1-5

	74444		•			
Assets:	R3000F023D)				

Location: Bldg. RHR Floor El. 590'-0" Room, Area	EDG14, Col. E-8
Instructions for Completing Checklist This checklist may be used to document the results of the Area Wa space below each of the following questions may be used to record Additional space is provided at the end of this checklist for documents.	the results of judgments and findings.
 Does anchorage of equipment in the area appear to be free of adverse seismic conditions (if visible without necessarily of cabinets)? All equipment in the area is securely restrained and anchor 	pening
 Does anchorage of equipment in the area appear to be free of degraded conditions? No anchorage degradation was observed in the area. 	of significant Y⊠ N□ U□ N/A□
3. Based on a visual inspection from the floor, do the cable/co raceways and HVAC ducting appear to be free of potentiall seismic conditions (e.g., condition of supports is adequate a conditions of cable trays appear to be inside acceptable limit All conduits and HVAC are properly anchored and restrain	y adverse and fill its)?
4. Does it appear that the area is free of potentially adverse sei interactions with other equipment in the area (e.g., ceiling ti lighting)? Lights in the area are on swivel rods that are designed to sw break. No other seismic spacial interactions were observed Picture B7)	iles and way and not

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

NJPR-12-0043

Sheet 2 of 3 Status: Y N U

RHR1-5

Area Walk-By Checklist (AWC)

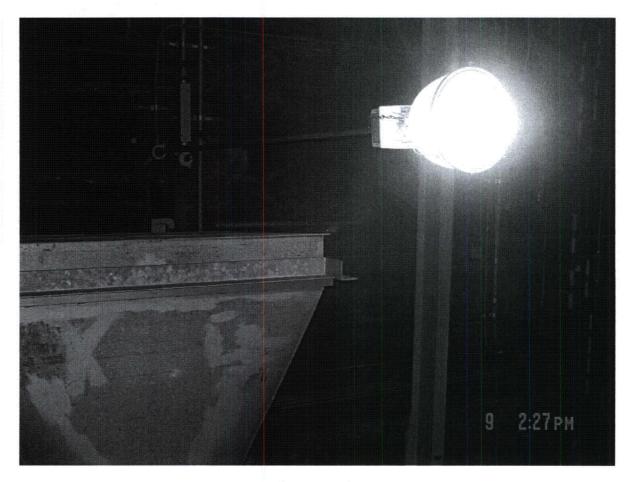
Assets: R3000F023D	
Location: Bldg. RHR Floor El. 590'-0" Room, Area EDG14, Col.	. E-8
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? There is a fire hose in the area; however there are no observed interactions that produce the potential for its rupture or the rupture of any other vessels or piping systems.	Y⊠ N□ U□ N/A□
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? The room is designed with a fire suppressant system due to the fact that it houses the diesel generator. There were no observed seismic concerns.	Y⊠ N□ U□ N/A□
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? No housekeeping concerns were observed. Portable equipment is either restrained or too far away to be a concern.	Y⊠ N□ U□ N/A□
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? No adverse seismic conditions found.	Y⊠'N□ U□
Comments (Additional pages may be added as necessary)	
None.	

NJPR-12-0043

Sheet 3 of 3 Status: Y N U

Area Walk-By Checklist (AWC)	KHK1-5
ASSETS: R3000F023D	
Location: Bldg. RHR Floor El. (590'-0") Room, Area	EDG-14 (area near R3000F023)
	COL. E-8
🗹 Seismic Engineer Walkdown PSE-53Qualified	
Evaluator #1: Michael P. Sasso	Date: 8/14/12
⊠ Seismic Engineer Walkdown PSE-53Qualified	
Evaluator #2: Frott Bauln	Date: <u>8/14/12</u>

Location: Bldg. RHR Floor El. 1 (590'-0") Room, Area EDG14, Col. E-8



(Picture #B7)

NJPR-12-0043

Sheet 1 of 3 Status: Y N U

RHR1-6

	Walk-By Checklis t s: <i>R3001B004</i>	(AWC)						
Locati	on: Bldg. <u>RHR</u>	Floor El. <u>5</u>	90'-0"	Room, Area ¹	EDG14, Col.	D-7.1		
This cl	hecklist may be used below each of the follonal space is provide	to document the lowing question	ns may be	used to record	the results of j	udgments		
1.	Does anchorage of e adverse seismic con cabinets)? All equipment in the	ditions (if visib	ole withou	t necessarily op	ening	YM N	I U□ N	/A□
2.	Does anchorage of edegraded conditions No degradation was	?			f significant	Y X N	IU□ N	/A□
3.	Based on a visual in raceways and HVA6 seismic conditions (conditions of cable tall conduits and HVA6 seismic conduits and	C ducting appeares, condition rays appear to	ar to be fro of support be inside	ee of potentially ts is adequate an acceptable limi	y adverse nd fill ts)?	Y ⊠ N□	l U□ N⁄	′A□
4.	Does it appear that t interactions with oth lighting)? Lights in the area and break. No other seis B7.	er equipment i	n the area ds that are	(e.g., ceiling ti	les and vay and not	Y⊠ N□	U□ N/	'A□
						м	06 10%	ı lın

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

NJPR-12-0043

Sheet 2 of 3 Status: (Y) N U

RHR1-6

Area Walk-By Checklist (AWC)

 Location: Bldg. RHR Floor El. 590'-0" Room, Area¹ EDG14, Col. D-7.1 5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? There is a fire hose in the area; however there are no observed interactions that produce the potential for its rupture. 6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? The room is designed with a fire suppressant system due to the fact that is houses the diesel generator. There were no observed seismic concerns. 7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? No housekeeping concerns were observed. Potable equipment is either restrained or too far away to be a concern. 	
interactions that could cause flooding or spray in the area? There is a fire hose in the area; however there are no observed interactions that produce the potential for its rupture. 6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? The room is designed with a fire suppressant system due to the fact that is houses the diesel generator. There were no observed seismic concerns. 7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? No housekeeping concerns were observed. Potable equipment is either	Floor El. <u>590'-0"</u> Room, Area <u>EDG14, Col. D-7.1</u>
 interactions that could cause a fire in the area? The room is designed with a fire suppressant system due to the fact that is houses the diesel generator. There were no observed seismic concerns. 7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? No housekeeping concerns were observed. Potable equipment is either 	ould cause flooding or spray in the area? se in the area; however there are no observed
interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? No housekeeping concerns were observed. Potable equipment is either	ould cause a fire in the area? ned with a fire suppressant system due to the fact that
	iated with housekeeping practices, storage of portable mporary installations (e.g., scaffolding, lead concerns were observed. Potable equipment is either
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	
Comments (Additional pages may be added as necessary)	ges may be added as necessary)

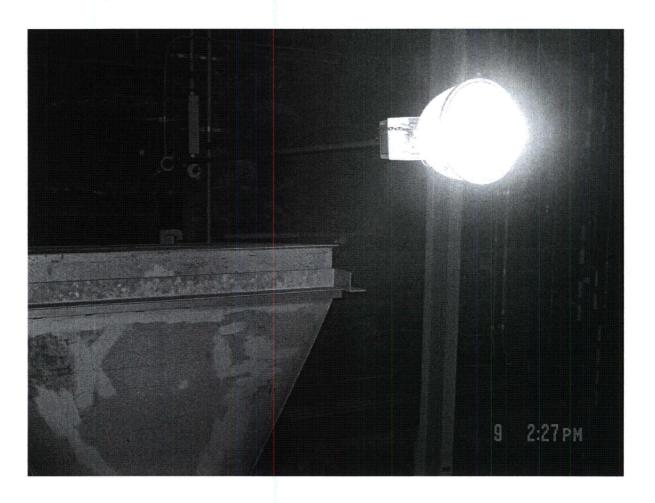
MPS 10/4/12

NJPR-12-0043

Sheet 3 of 3 Status: (Y) N U

Area Walk-by Checklist (AWC)	RHRI-G
Location: Bldg. RHR Floor El. 1(590'-0") Room, Area EDG	14, Col. D-7.1
Seismic Engineer Walkdown PSE-53Qualified Evaluator #1: MAP Lasso	Date:
■ Seismic Engineer Walkdown PSE-53Qualified Evaluator #2: Scott James E	Date: 8/14/12

Location: Bldg. RHR Floor El. 590'-0" Room, Area EDG 14, Col. D-7.1



(Picture B7)

NJPR-12-0043

Sheet 1 of 3 Status: Y (N) U

RHR1-7

	KHKI-/
Area Walk-By Checklist (AWC) Assets: R3001C006	
Location: Bldg. RHR Floor El. 590'-0" Room, Area Room SRHRPR, C	ol. E-6
Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near one or m space below each of the following questions may be used to record the results of judgm Additional space is provided at the end of this checklist for documenting other commen	nents and findings.
 Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Anchorage of equipment in the area is free of potentially adverse seismic conditions. See Photos DSCN 0396 & DSCN 0397. 	N□ U□ N/A□
 Does anchorage of equipment in the area appear to be free of significant YX degraded conditions? No degraded conditions exist. 	Ñ N□ U□ N/A□
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? All commodities are adequately supported. See Photo DSCN 0397.	Knd ud n/ad
4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? No ceiling tiles in this area. Lights are adequately supported. See Photos DSCN 0398 & 0404.	NO UO N/AO

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

NJPR-12-0043

Sheet 2 of 3 Status: Y N U

RHR1-7

Area Walk-By Checklist (AWC)

Location: Bldg. RHR Floor El. 590'-0" Room, Area Room SRHRP	R, Col. E-6
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? The existing piping is adequately supported, and floor drains are also in the area. There is no threat of flooding or water spray in this area.	YX NO UO N/AO
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? No combustible material stored in this area.	YØ N□ U□ N/A□
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? There are no temporary installations in this area. The area is free of potentially adverse seismic interactions. Overall area is in good condition.	Y ⊠ N□ U□ N/A□
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Pump R3000C005 contains diagonal braces which do not appear on Vendor Dwg. MD-21144, Sheet 1, Rev. M. See Photo DSCN 0396. CARD 12-26977 was written to revise the vendor drawing to refer to hanger Dwgs. R30-C005-G01, Rev. 0, to R30-C008-G01, Rev 0. During the walkdown, a broken label was found on Valve E1150F605A.	U XIN OY
See Photo DSCN 0406. CARD 12-27150 was written.	
Comments (Additional pages may be added as necessary)	

NJPR-12-0043

Sheet 3 of 3 Status: Y (N) U

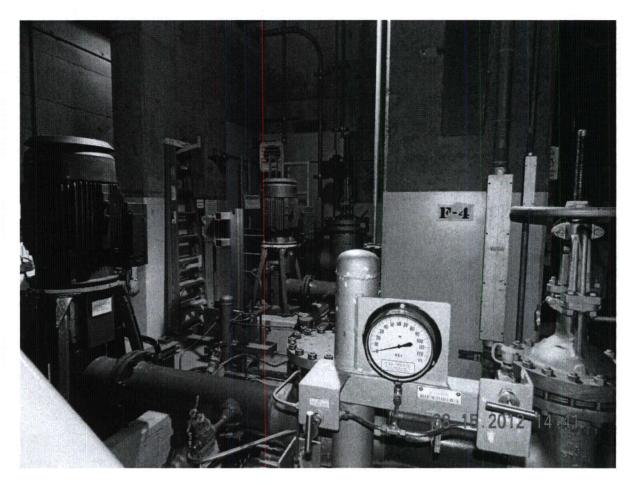
RHR1-7

Page D-242

Area Walk-By Checklist (AWC)

Assets: R3001C006	•			
Location: Bldg. RHR	Floor El. 590'-0" Room, Area ¹ Roo	m SRHRPR, Col.	E-6	_
Seismic Eng Evaluator #1:	gineer Walkdown PSE-53 Qualified	Date:	8/14/12	
Seismic English Evaluator #2:	gineer Walkdown PSE-53 Qualified	Date:	08/14/12	

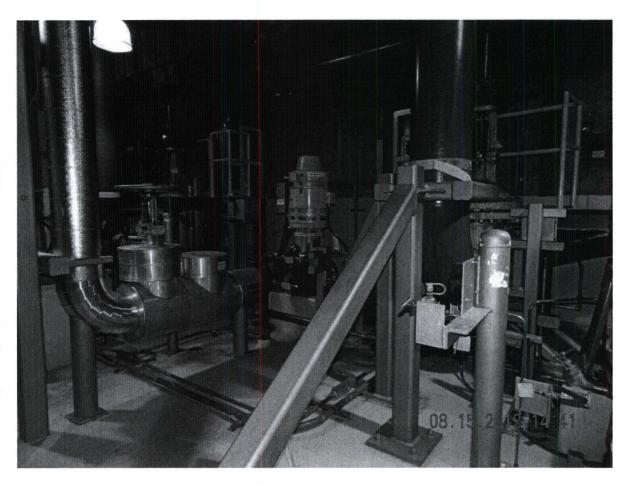
Location: Bldg. RHR Floor El. 590'-0" Room, Area SRHRPR, Col. E-6



(DSCN 0396)

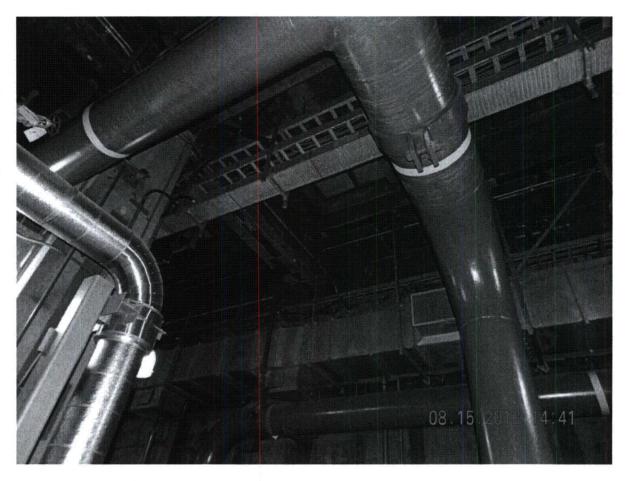
Location: Bldg. <u>RHR</u> Floor El. <u>590'-0"</u>

Room, Area SRHRPR, Col. E-6



(DSCN 0397)

Location: Bldg. RHR Floor El. 590'-0" Room, Area SRHRPR, Col. E-6



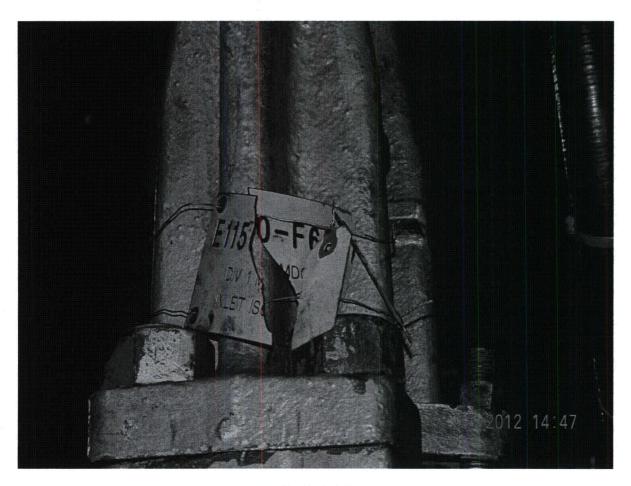
(DSCN 0398)

Location: Bldg. RHR Floor El. 590'-0" Room, Area SRHRPR, Col. E-6



(DSCN 0404)

Location: Bldg. <u>RHR</u> Floor El. <u>590'-0"</u> Room, Area <u>SRHRPR, Col. E-6</u>



(DSCN 0406)

NJPR-12-0043

Sheet 1 of 3 Status: Y N U

RHR1-8

Assets: R3001S001	<u>590'-0"</u>	1414/12	
Location: Bldg. RHR	Floor El. <u>-595'-0''</u>	Room, Area ¹ EDG11, Co	l. E-6 to E-7
Instructions for Completing	Checklist		
This checklist may be used to space below each of the follow Additional space is provided a	ving questions may be	used to record the results of	judgments and findings.
 Does anchorage of equ adverse seismic condit cabinets)? 		ear to be free of potentially necessarily opening	YX NO UO N/AO
All equipment in the ar			JAM 10/11/12
 Does anchorage of equivalent degraded conditions? No degraded anchors viseismically supported. 		ear to be free of significant ing appears to be	Y囚 N□ U□ N/A□
3. Based on a visual insperaceways and HVAC desermic conditions (e.g. conditions of cable tray HVAC ducts supported condition. (See DSC 000 87	ducting appear to be free free free free free free free f	te of potentially adverse is adequate and fill acceptable limits)? Il supports are in good	Y∭ N□ U□ N/A□
(See DSC 000 87	,	10/11	/ /^
4. Does it appear that the interactions with other lighting)? There are no ceiling til ceiling by conduit, with	equipment in the area less in this area. Light j	fixtures hung from the	YMO U□ N/A□
(See DSC00085)/11/01 1/11/01	



¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

NJPR-12-0043

Sheet 2 of 3 Status: (Y) N U

RHR1-8

Assets: R3001S001	590'-0"	124/12	
Location: Bldg. RHR	Floor El. <u>595 ' 0''</u>	Room, Area EDG11, Co	ol. E-6 to E-7
5. Does it appear that the interactions that could a All water piping is seis. Floor drains are provided in the provided in th	cause flooding or spray mically supported, and	in the area? risk of leakage is low.	YZZ.N□ U□ N/A□
6. Does it appear that the interactions that could No combustible material	cause a fire in the area?	•	YMD U□ N/A□
equipment, and tempor shielding)?	with housekeeping pra ary installations (e.g., s	ctices, storage of portable	YÇA`N□ U□ N/A□
(See D5(00081, D	5C00082 and Ds		JAM 10/11/12
Have you looked for an adversely affect the safe.			YM N□ U□
Comments (Additional pages m	av he added as necessary		
		,	

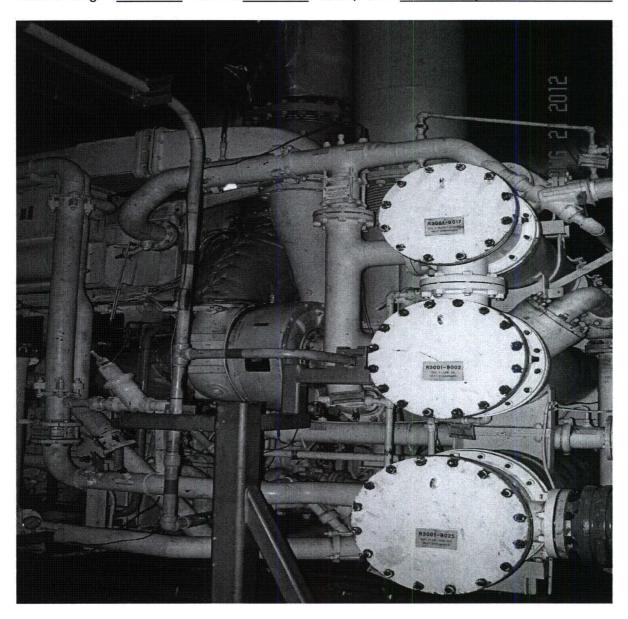
JUL

None

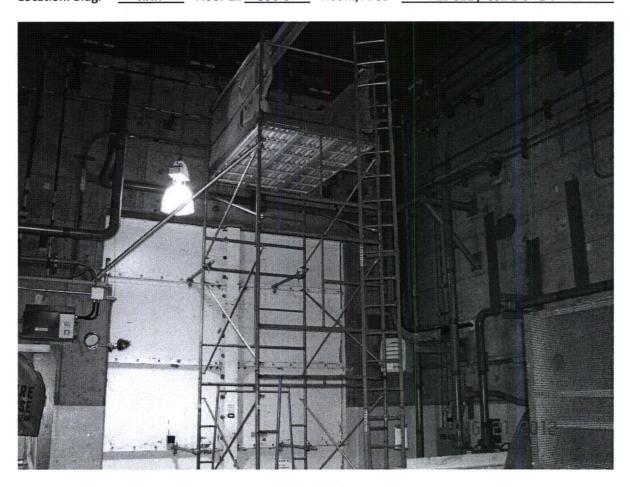
NJPR-12-0043

Sheet 3 of 3 Status: N U

	Area Walk-By Checkl	st (AWC)	KHK1-9				
45	SETS: R 3 001 500		EDGIL COLEB-E7				
	Location: Bldg. RHR	Floor El. <u>5%' d'</u>	Room, Area ¹ RHR COMPLEX				
		Engineer Walkdown PSE-	53Qualified				
	Evaluator #1: David	6 Didkenson	Da	ite:	8/21/2012		
	T Cajumia	Engineer Walkdown DSE	53 Qualified				
	Evaluator #2 :	Engineer Walkdown PSE- Doeph M. Ja Ve		ıte:	08/22/202		
					-, ,		



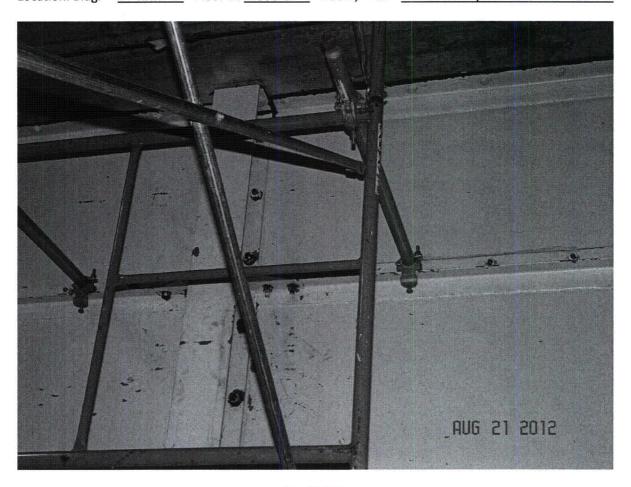
(DSC00079)



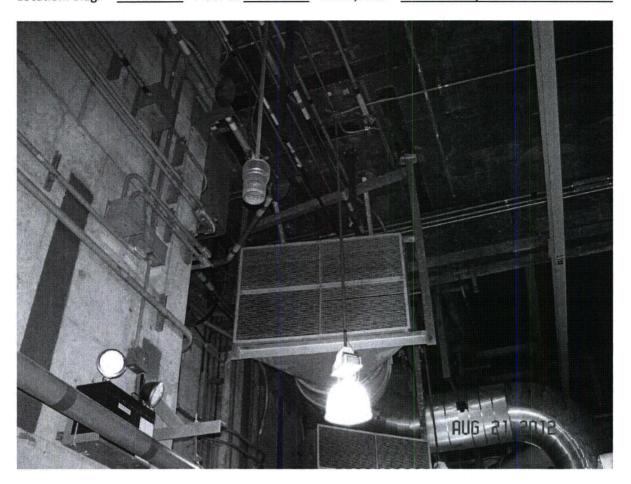
(DSC00081)



(DSC00082)



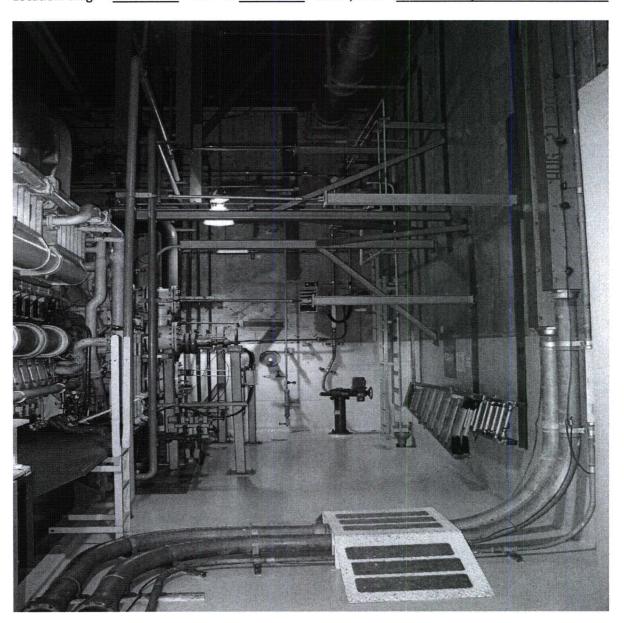
(DSC00083)



(DSC00085)



(DSC00087)



(DSC00088)

NJPR-12-0043

Sheet 1 of 3 Status: Y N U

RHR1-9

Area Walk-By Checklist (AWC) Assets: R30FA05B	
Location: Bldg. RHR Floor El. 590'-0" Room, Area EDG13	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near one space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other co	judgments and findings.
 Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? No adverse conditions observed. 	Y⊠ N□ U□ N/A□
 Does anchorage of equipment in the area appear to be free of significant degraded conditions? Piping system asset is part of supports. Visually inspected and found no degraded conditions in anchorage. 	YM N□ U□ N/A□
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? No adverse conditions observed.	Y⊠ N□ U□ N/A□
4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? The light on the north west corner of the room is installed right next to the large heat exchanger pipe. The pipe is approx. 10" in diameter and will not be subject to damage per Engineering Judgment. See pictures B1 and B2. The concern with the location of the light is documented under CARD 12-26861.	Y QU N/A

MPS 10/4/12

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

NJPR-12-0043

Sheet 2 of 3 Status: Y N U

RHR1-9

Area Walk-By Checklist (AWC)

Assets: R30FA05B	
Location: Bldg. <u>RHR</u> Floor El. <u>590'-0"</u> Room, Area ¹ <u>EDG13</u>	,
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Area is free of flooding or spray hazards.	Y⊠ N□ U□ N/A□
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Area is free of potential fire hazards.	YM NO UO N/AO
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? No inappropriate housekeeping practices or portable equipment storage was observed in the area. Note: Lube oil drain header ISO valve (PIS # R000F122B) is missing a handle per TMPE-97-0439. Acceptable as is.	YM NO UO N/AO
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? No other seismic conditions were identified.	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	

Various valve hand wheels in the RHR were intentionally removed by Operations to prevent the valves from inadvertently opening. Ref. TMPE-97-0439.

MPS 10/4/12

NJPR-12-0043

Area Walk-By Checklist (AWC)

Sheet 3 of 3 Status: N U RHRI-9

ASSETS: R30FA05B		
Location: Bldg. RHR Floor El. 1 (570'-0") Room, Area EDG	13 Grea nea	r R30FA05B)
■ Seismic Engineer Walkdown PSE-53Qualified Evaluator #1: Muchael P. Lasse	Date:	8/16/12
		,
☑ Seismic Engineer Walkdown PSE-53Qualified		
Evaluator #2: Scott Baner	Date:	8/16/12

Location: Bldg. RHR Floor El. 590'0" Room, Area EDG13



(Picture B1)

Location: Bldg. RHR Floor El. 590'0" Room, Area EDG13



(Picture B2)

NJPR-12-0043

Sheet 1 of 3 Status: (Y) N U

RHR1-10

Assets: R30NA17A	
Location: Bldg. RHR Floor El. 590'-0" Room, Area RHR Comple	ex, EDG 11, Col. E-6 to E-7
Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near one space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other co	judgments and findings.
 Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Inside shaft guard. Protected area – All other observations are applicable to the general area. Anchorage of equipment in general area is free of potentially adverse seismic conditions. 	Y⊠ N□ U□ N/A□
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? There is not any other equipment inside the shaft guard. Observations are applicable to the general area. Anchorage of equipment in general area is free of equipment with degraded anchors.	Y⊠ N□ U□ N/A□
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? All HVAC ducting, pipes and cable tray are seismically supported. Also this asset is protected by a heavy guard around the shaft.	YØ N□ U□ N/A□
4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? No ceiling tiles or lighting within the shaft guard.	YM N□ U□ N/A□

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

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Sheet 2 of 3 Status: (Y) N U

RHR1-10

Area Walk-By Checklist (AWC)

Ass	ets: R30N	417A						
Location	on: Bldg.	RHR	Floor El.	590'-0"	Room, Area ¹	RHR (Complex, EDG 11, Col. E-6 to 1	<u></u> <u>3-7</u>
5.	interaction	ns that c	nt the area is free could cause flood obustly supporte	ding or spra	y in the area?	smic	YØ N□ U□ N/A□	
6.	interaction	ns that c	at the area is free could cause a fire bustible materia	e in the area	1?	smic	Y⊠ N□ U□ N/A□	
7.	interaction equipmen shielding) No tempor	ns assoc t, and te ? rary equ	at the area is free iated with house mporary installations are in the and in approved re	ekeeping prations (e.g.,	actices, storage scaffolding, lea	of porta ad		
8.			for and found none safety function				ild Y⊠ N□ U□	•
Comm	ients (Addi	tional pa	ges may be added	l as necessar	y)			
	None.							

JUL

TMPE-12-0294

NJPR-12-0043

Sheet 3 of 3 Status: Y N U

Area Walk-By Checklis	st (AWC)		KHR1-10				
ASSETS: ROONALY	4						
		Room, Area ¹ RHR COMI	PLEX, EDGII, EGTO E7				
Evaluator #1: Devid	Engineer Walkdown PSE-	53Qualified	Date: 8/21/2012				
Evaluator #1: DCLA-G	o present		Date: <u>8/2/2012</u>				
🔀 Seismic	Engineer Walkdown PSE-5						
Evaluator #2 :	Joseph M	1 bellere	Date: 08/21/2012				



R30NA17A is located Behind this guard

NJPR-12-0043

Sheet 1 of 3 Status: N U

RHR1-11

	alk-By (s: <i>R30P3</i>	Checklist 320	(AWC)						
Location			Floor El.	590'-0"	Room, Area ¹	RHR Comp	lex, EDG12,	Col. E	-5 to E-6
This chec	cklist ma low each	y be used of the foll	owing questi	ons may be	f the Area Wall used to record list for docume	the results of	judgments		
ac ca	dverse se abinets)? A <i>ll equip</i>	eismic cond ment in the	ditions (if visi	ble without	ear to be free or necessarily open the adequate and ocital	ening ehorage.	YD. NO	U□ I	N/A□
d N se	egraded Vo degra eismicall	conditions ded ancho y supporte	? rs were obser		ear to be free or	-	^	U D	√A□
ra se co <i>H</i>	aceways eismic coonditions WAC due to the conditions to the condition.	and HVAC onditions (o s of cable t cts are sup	ducting appe.g., condition	ear to be free of supports to be inside a pust hangers	to the cable/cone of potentially is adequate an acceptable limit. All supports.	adverse ad fill s)?	YØ N□ 2	U D	√A□
ir li <i>I</i>	nteraction ghting)? There are eiling by	ns with oth no ceiling rigid cond	er equipment	in the area area. Light dundant wir		es and	Y⊠, N□	U <u></u>	I/A□

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

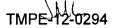
NJPR-12-0043

Sheet 2 of 3 Status: N U

RHR1-11

Area Walk-By Checklist (AWC)

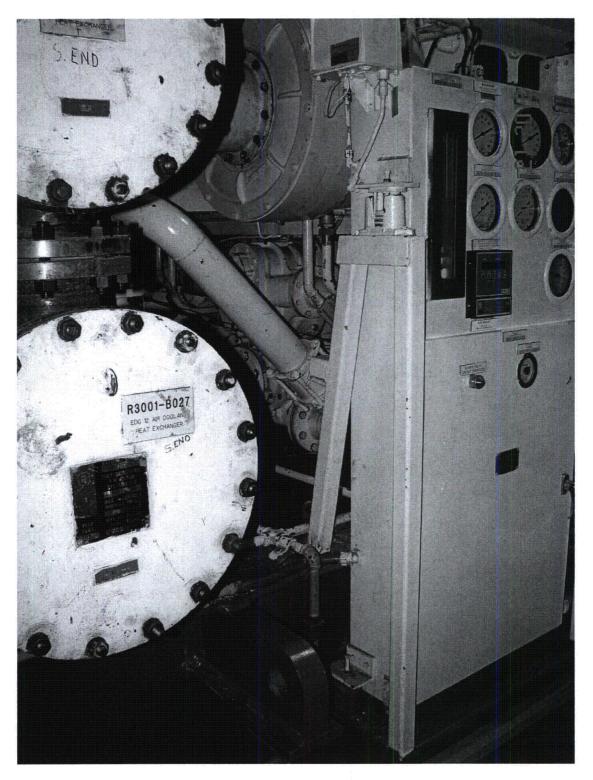
Asse	ets: R30P3	320							
Locatio	n: Bldg.	RHR	Floor El.	590'-0"	Room, Area ¹	RHR Comple	x, EL)G12,	Col. E-5 to E-6
	interaction All water	ns that coul piping is se	d cause floo	ding or spra	lly adverse seisy in the area? d the risk of lea		Υ⁄Z	N□	U□ N/A□
	interaction	ns that coul	ne area is free d cause a fire crial is stored	e in the area	-	smic	ΥŒÌ	N□	U□ N/A□
	interaction equipmen shielding) Scaffoldin approved	ns associate t, and temp ? eg is tied of	ed with house orary installs	ekeeping pra ations (e.g.,	ally adverse seis actices, storage scaffolding, lea ared. Ladders a	of portable ad	Υ¤	N□	U□ N/A□
					nic conditions uipment in the		YΩ	N□	Ŭ□
Commo	e nts (Addi	tional pages	may be added	l as necessary	/)	,			
	None.								



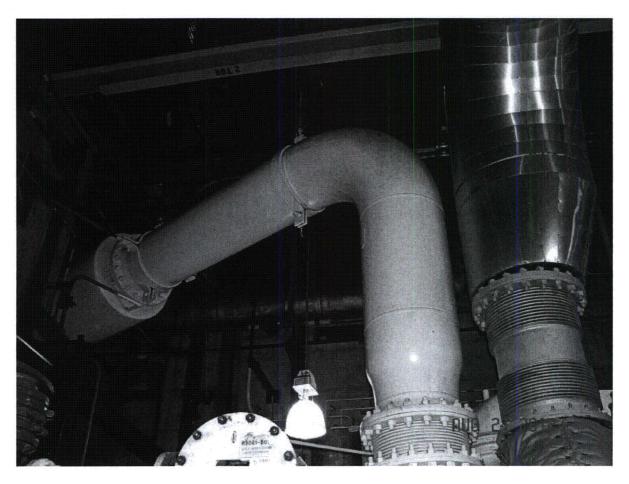
NJPR-12-0043

Sheet 3 of 3 Status: Y N U

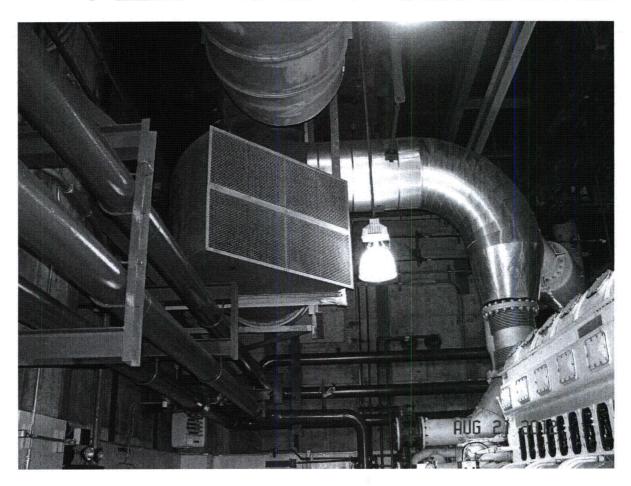
Area Walk-By Checklist (AWC)	RHRI-II				
ASSETS: R30P 320					
Location: Bldg. RHR Floor El. 590'co"	Room, Area RHR COMPLEX, EDGIZ, ES TO E6.				
☑ Seismic Engineer Walkdown PSE-5	3Qualified				
Evaluator #1: David & Dickerium	Date: 8/21/2012				
🛛 Seismic Engineer Walkdown PSE-5	3Qualified				
Evaluator #2: Joseph M. fall	bu Date: 08/21/2012				



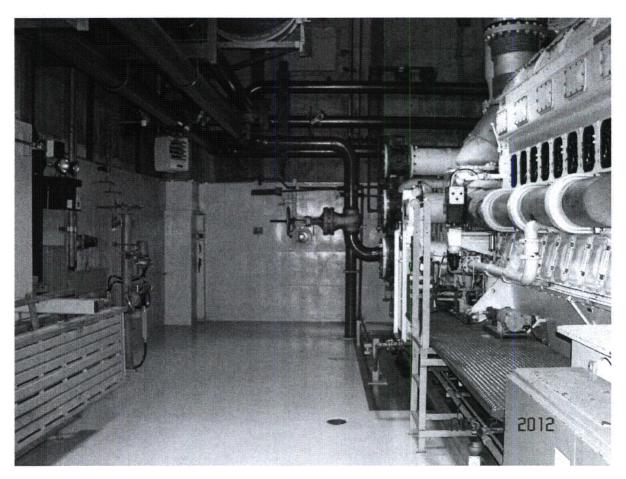
(DSC00107)



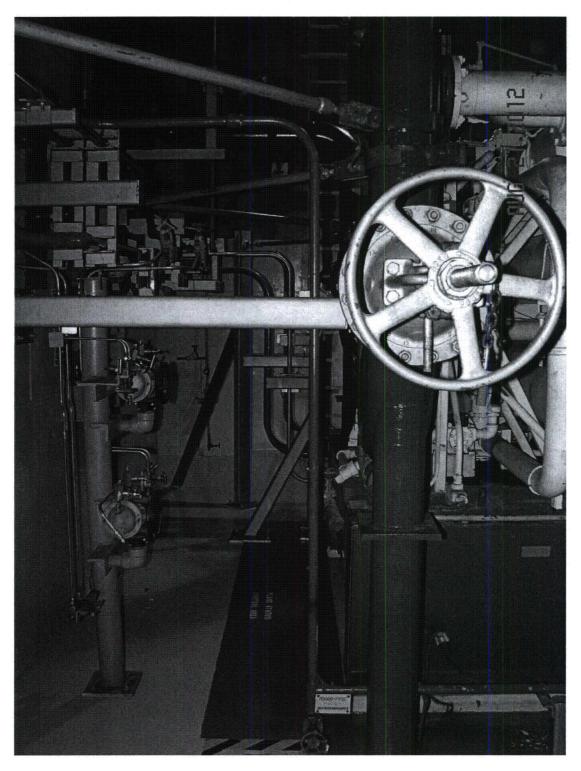
(DSC00108)



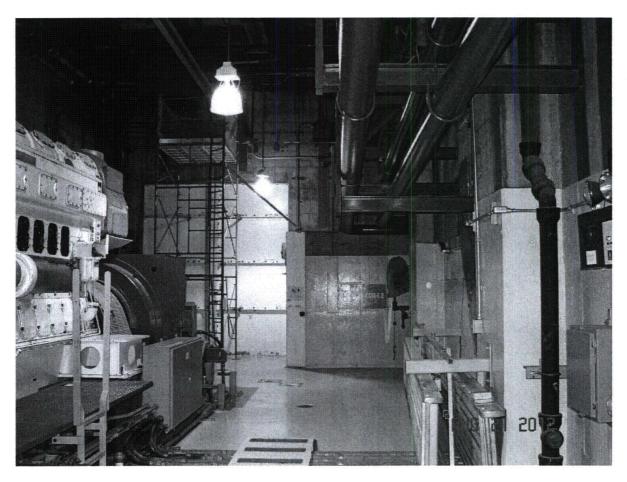
(DSC00110)



(DSC00111)



(DSC00112)



(DSC00113)

NJPR-12-0043

Sheet 1 of 3 Status: Y N U

RHR1-12

Area Walk-By Checklist (AWC)		
Assets: R30P343D		
	 	·····

Locati	on: Bldg.	RHR	Floor El.	590'-0"	Room, Area ¹	EDG14, Col.	F-7	
Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.								
1.	adverse s cabinets)	eismic condit?	tions (if vis	ible withou	pear to be free of t necessarily op the ed and anchor	pening	Y ⊠ N□ U	□ N/A□
2.	degraded	horage of eque conditions? Adation was o	_			of significant	Y J A(N□ U	□ N/A□
3.	raceways seismic c condition	and HVAC onditions (e.g. s of cable tra	ducting app g., condition ys appear t	ear to be front of support of be inside a	to the cable/co ee of potentiall is is adequate a acceptable limi id and restraine	y adverse nd fill ts)?	Y ⊠ N□ U	□ N/A□
4.	interaction lighting)? Lights in	ns with other the area are o other seism	equipment	in the area	ally adverse sei (e.g., ceiling ti designed to sw were observed	les and	Y⊠ N□ UI	⊃ N/A□

MPS 10/4/12

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

NJPR-12-0043

Sheet 2 of 3 Status: Y N U

RHR1-12

Area Walk-By Checklist (AWC) Assets: R30P343D

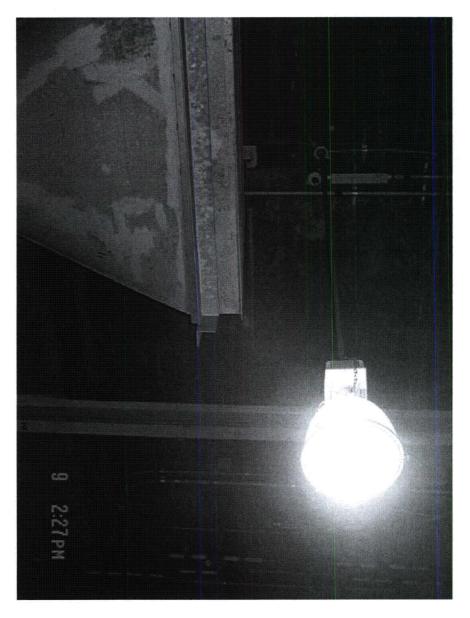
Assets: R30P343D			
Location: Bldg. RHR Floor El. 590'-0" Room, Area EDG14, Col	. F-7		
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Process piping in the area is seismically supported in a satisfactory manner and poses no spray or flooding concerns. This includes the fire hose station nearby.	YX NO UO N/AO		
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? The room is designed with a fire suppressant system due to the fact that it houses the diesel generator. No items were observed that could result in a fire due to seismic interaction effects.	Y⊠ N□ U□ N/A□		
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? No housekeeping concerns were observed. Portable equipment is either restrained or too far away to be a concern.	Y⊠ N□ U□ N/A□		
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? No other seismic conditions were identified.	Y⊠ N□ U□		
Comments (Additional pages may be added as necessary)			
None.			

MPS 10/4/12

NJPR-12-0043

Sheet 3 of 3 Status: N U

Area waik-by Checklist (AWC)	KHR1-12
ASSETS: R30P343D	
Location: Bldg. RHR Floor El. 1(590'-0") Room, Area EDG 14, 1	(ol. F-7
Seismic Engineer Walkdown PSE-53Qualified Evaluator #1: Mild P. Sessa.	Date: 8/14/12
■ Seismic Engineer Walkdown PSE-53Qualified Evaluator #2:	Date: <u>8/14/12</u>



(Picture B7)

NJPR-12-0043

Sheet 1 of 3 Status: N U

RHR2-1

Area Walk-By Checklist (AWC) Assets: E1156C001C	MIN2*I
Location: Bldg. RHR Floor El. 617'-0" Room, Area SRHRCT, Co	l. B-3
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near one space below each of the following questions may be used to record the results of j Additional space is provided at the end of this checklist for documenting other contains the space is provided at the end of this checklist for documenting other contains the space is provided at the end of this checklist for documenting other contains the space is provided at the end of this checklist for documenting other contains the space is provided at the end of this checklist for documenting other contains the space is provided at the end of this checklist for documenting other contains the space is provided at the end of this checklist for documenting other contains the space is provided at the end of this checklist for documenting other contains the space is provided at the end of this checklist for documenting other contains the space is provided at the end of this checklist for documenting other contains the space is provided at the end of this checklist for documenting other contains the space is provided at the end of this checklist for documenting other contains the space is provided at the end of this checklist for documenting other contains the space is provided at the end of this checklist for documenting other contains the space is provided at the end of this checklist for documenting other contains the space is provided at the end of the space is provided at the end o	udgments and findings.
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Anchorage of equipment is free of potentially adverse seismic conditions. Also, the only "equipment" in this room is the fan motor, conduit, a junction box and three bottled gas cylinders. See photo DSCN 0418.	YX N U N/A
 Does anchorage of equipment in the area appear to be free of significant degraded conditions? No degraded conditions. Surface oxidation only. 	Y⊠(N□ U□ N/A□
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Existing conduit raceways are adequately supported. No HVAC ducts or cable trays.	YM N□ N□ N/A□
4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? No ceiling tiles or lighting.	YZIN□ U□ N/A□

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

NJPR-12-0043

Sheet 2 of 3 Status: (Y) N U

RHR2-1

Area Walk-By Checklist (AWC)

Assets: E1156C001C				
Location: Bldg. RHR Floor El. 617'-0" Room, Area SRHRCT, Col. B-3				
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? This area houses motor/fan, cylinders, conduits and junction boxes. No fire protection piping in the area that could break or cause flooding. See photo DSCN 0418.	ŸØ N□ U□ N/A□			
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Gas bottles are securely fastened and filled with nitrogen, a non-combustible gas. Refer to photos DSCN 0418 & 0418A.	YM OU ON/AC			
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? No scaffolding or shielding or portable equipment in the area.	YX NO UO N/AO			
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Overall area is clean; there are no other seismic conditions that could adversely impact the safety function of equipment.	Y∭ N□ U□			
Comments (Additional pages may be added as necessary)				

NJPR-12-0043

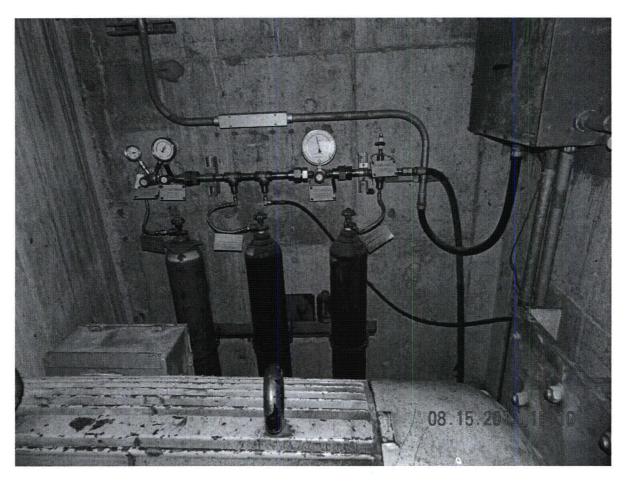
Sheet 3 of 3 Status: N U

RHR2-1

Area Walk-By Checklist (AWC)

Assets: E1156C001C		
Location: Bldg. <u>RHR</u> Floor El. <u>617'-0"</u> Room, Area <u>SRHRC</u>	T, Col. B-3	· · · · · · · · · · · · · · · · · · ·
Seismic Engineer Walkdown PSE-53 Qualified Evaluator #1:	Date:	8/15/12
Seismic Engineer Walkdown PSE-53 Qualified Evaluator #2:	Date:	08/19/12

Location: Bldg. RHR Floor El. 617'-0" Room, Area SRHRCT, Col. B-3



(DSCN 0418)

Location: Bldg. RHR Floor El. 617'-0" Room, Area SRHRCT, Col. B-3



(DSCN 0418A)

NJPR-12-0043

Area Walk-By Checklist (AWC)

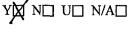
Sheet 1 of 3 Status: Y (N) U

RHR2-2

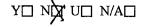
Asset	s:. <i>R1400S039B, R16</i>	00S019A & X41N056D		_	
Locati	ion: Bldg. <u>RHR</u>	Floor El. 617'-0"	Room, Area ¹	EDG14, Seco	nd Floor
Instru	ections for Complet	ing Checklist			
space	below each of the fo	I to document the results llowing questions may be ed at the end of this check	used to record t	he results of j	
1.		equipment in the area apaditions (if visible withou			YM UU U/A
		ipment and overhead cab uately supported (anchor			
. 2.	Does anchorage of degraded condition	equipment in the area apps?	pear to be free of	significant	YX UU UN/AU
	No evidence of degi loose bolts. See Ph	radation such as corrosid oto DSC 00338	on, cracks, and m	issing or	

^{3.} Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?

Area has HVAC, cable/conduit and multi-tier cable trays. All these commodities are adequately supported. See Photos DSC 00336 and DSC 00343.



4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?



No ceiling tiles. Lighting is well supported (chains plus wire rope) to prevent collapse onto equipment. Initiated CARD # 12-26985 for misaligned light fixture leaning against a cable tray support. See Photos DSC 00335 & 00354. While adverse seismic interaction is potentially possible, it is unlikely. Since the light fixture is relatively light weight, it is much more likely seismic interaction will damage the fixture. If bulbs are knocked out of the fixture and fall, equipment below is protected by enclosed metal cabinets in which it is housed.

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

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Sheet 2 of 3 Status: Y U

UU UN XIY

RHR2-2

Area Walk-By Checklist (AWC)

Assets: R1400S039B, R1600S019A & X41N056D

Overall area is clean condition

Comments (Additional pages may be added as necessary)

Location: Bldg. RHR	Floor El. 617'-0" Room, Are	ea ¹ EDG14, Second Floor
interactions that coul	the area is free of potentially adverse sold cause flooding or spray in the area or piping in the area.	, , , , , , , , , , , , , , , , , , ,
interactions that coul	ne area is free of potentially adverse sold cause a fire in the area? it/cable trays & HVAC, includes dete	·
interactions associate	ne area is free of potentially adverse sed with housekeeping practices, stora porary installations (e.g., scaffolding,	age of portable

None identified.			

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?

NJPR-12-0043

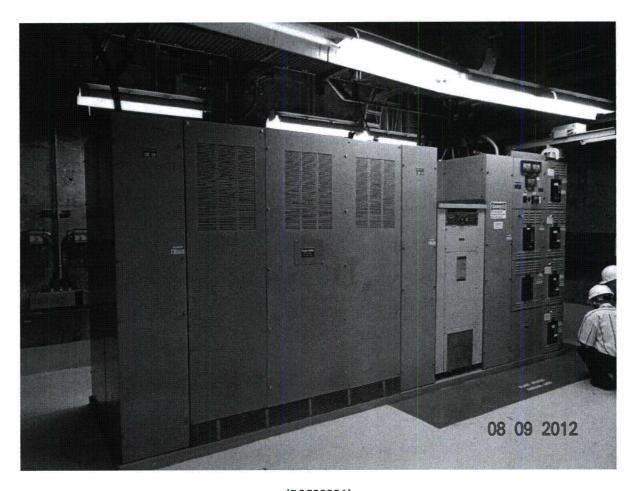
TMPE-12-0294

Sheet 3 of 3 Status: Y U U

RHR2-2

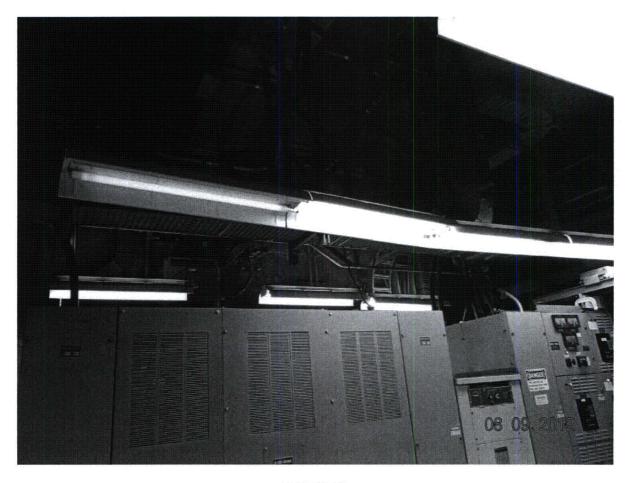
Area Walk-By Checklist (AWC)

Assets: R1400S039B, R160	0S019A & X41N056D		
Location: Bldg. RHR	Floor El. 617'-0" Room, Area ¹	EDG14, Second Floo	r
X Seismic En	gineer Walkdown PSE-53 Qualified	Date:	8-9-12
	,		
Evaluator #2:	gineer Walkdown PSE-53 Qualified	Date:	08/09/12
4 lv			



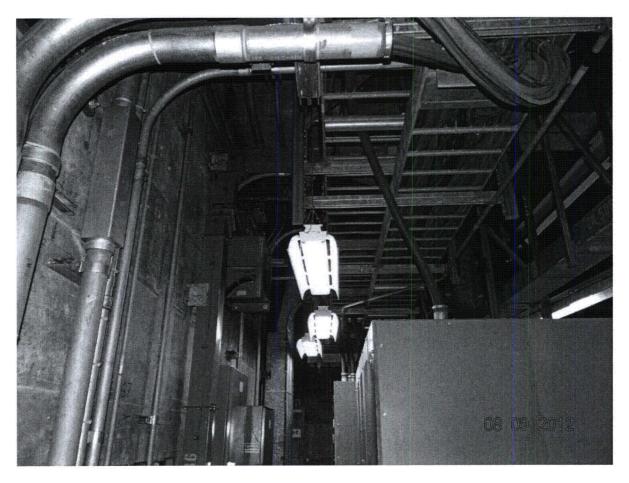
(DSC00321)

Assets # R1400S039A, R1400S039B, R1400S039 (BUS 72ED)



(DSC00335)

Looking Up Over The Cabinets



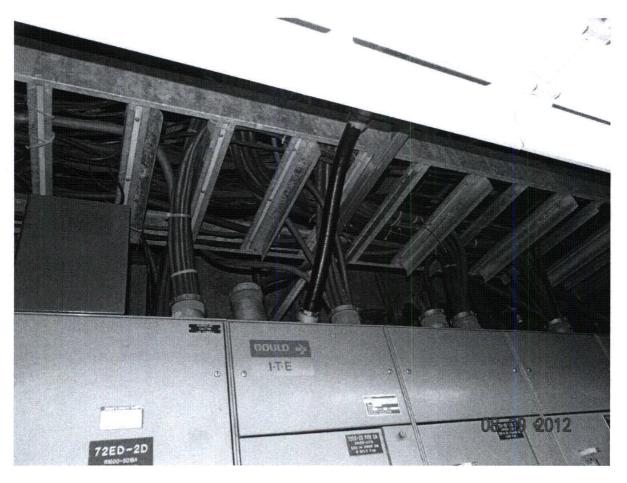
(DSC00336)

Looking Up Over The Cabinets



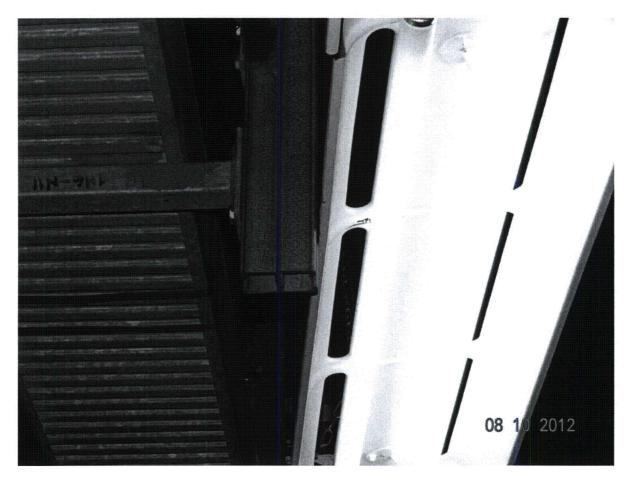
(DSC00338)

Asset R1600S019A Overview



(DSC00343)

Asset R1600S019A Cabletray Etc. Over The Cabinets



(DSC00354)

Looking Up Cabletrays/Conduits

NJPR-12-0043

Sheet 1 of 3 Status: V N U

RHR2-3

Area Walk-By Checklist (AWC) Assets: X4103C001	Turk2-3							
Location: Bldg. <u>RHR</u> Floor El. <u>617'-0"</u> Room, Area <u>EDG11, Col</u>	. E-6							
Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.								
 Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Two identical fans are housed in the area. Anchorage of equipment is in good condition. 	Ŷ¤ N□ U□ N/A□							
 Does anchorage of equipment in the area appear to be free of significant degraded conditions? No degraded conditions in the area. 	YM N□ U□ N/A□							
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? HVAC and cable/conduit raceways are adequately supported. This area does not have cable trays (see Photo DSC 01371)	YE NO UO N/AO							
4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? No ceiling tiles in the area, lights are adequately secured to the wall (see Photos DSC 01371 & 01372)	YK NO UO N/AO							

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

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Sheet 2 of 3 Status: (Y) N U

RHR2-3

Area Walk-By Checklist (AWC) Assets: X4103C001

Assets: 74105C001	
Location: Bldg. RHR Floor El. 617'-0" Room, Area EDG11, Col	I. E-6
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Area does not have any piping that would cause flooding or spray.	YMX N□ U□ N/A□
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? No combustible or flammable materials in the area.	YX N□ U□ N/A□
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Overall area is in good condition.	YX NO UO N/AO
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
None.	

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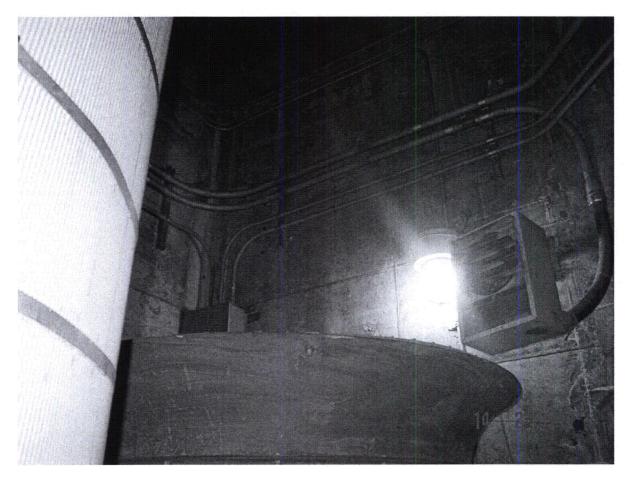
Sheet 3 of 3 Status: (Y) N U

RHR2-3

Area Walk-By Checklist (AWC)

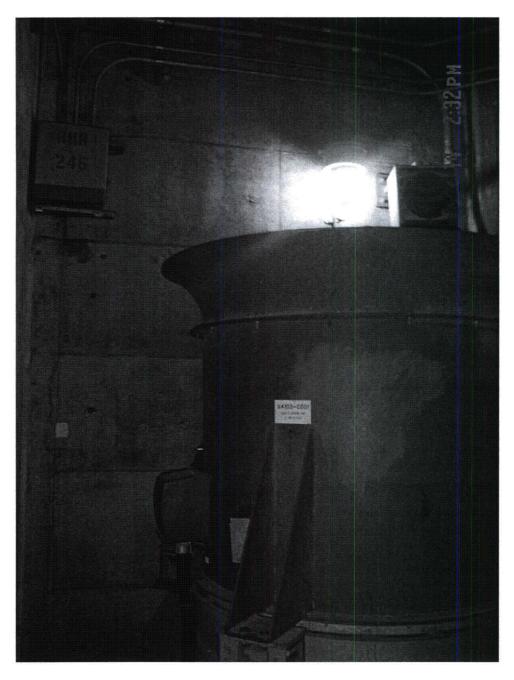
Assets: X4103C001			
Location: Bldg. RHR	Floor El. <u>617'-0"</u> Room, Area <u>EDG11, Col. E-</u>	-6	
⊠ Seismic En Evaluator #1:	gineer Walkdown PSE-53Qualified	Date:	8/14/12
Evaluator #2:	gineer Walkdown PSE-53Qualified D	ate:	08/14/12

Location: Bldg. RHR Floor El. 617'-0" Room, Area EDG-11, Col. E-6



(DSC01371)

Location: Bldg. RHR Floor El. 617'-0" Room, Area EDG-11, Col. E-6



(DSC01372)

NJPR-12-0043

Sheet 1 of 3 Status: (Y) N U

RHR2-4

Area Walk-By Checklist (AWC) Assets: X4103C007	,
Location: Bldg. RHR Floor El. 617'-0" Room, Area EDG14, Col.	E-7
Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near on space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other contains the containing of the containi	judgments and findings.
 Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Two identical fans are housed in the area, Fans X4103C007 and X4103C008. Anchorage of equipment is in good condition. 	YX NU UU N/AU
 Does anchorage of equipment in the area appear to be free of significant degraded conditions? No degraded conditions in the area. 	YN UU N/AU
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? HVAC cable/conduit raceways are adequately supported. This area does not have cable trays.	A∭ N□ U□ N/A□
4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? No ceiling tiles in the area. Lights are adequately secured to the wall. See Photo DSC00362.	YM N□ U□ N/A□

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

NJPR-12-0043

None.

Sheet 2 of 3 Status: (Y) N U RHR2-4

Area Walk-By Checklist (AWC)

Assets: X4103C007	
Location: Bldg. RHR Floor El. 617'-0" Room, Area EDG14, Col	!. E-7
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Area does not house any piping that would cause flooding or spray.	YX NO UO N/AO
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? None identified.	YM NO UO N/AO
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Existing scaffolding in area is properly installed.	Y ∑ N□ U□ N/A□
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? No other adverse conditions were identified.	YØ N□ U□
Comments (Additional pages may be added as necessary)	

NJPR-12-0043

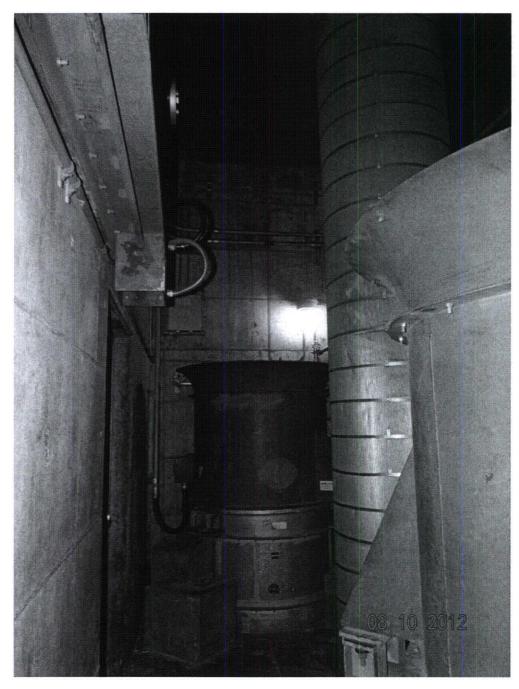
Sheet 3 of 3 Status: (Y) N U

RHR2-4

Area Walk-By Checklist (AWC)

Assets: X4103C007		
Location: Bldg. <u>RHR</u> Floor El. <u>617'-0"</u> Room, Area <u>EDG14, Col</u>	. E-7	
Seismic Engineer Walkdown PSE-53 Qualified Evaluator #1:	Date:	8/10/12
Seismic Engineer Walkdown PSE-53 Qualified Evaluator #2:	Date:	08/10/12

Location: Bldg. RHR Floor El. 617'-0" Room, Area EDG14, Col. E-7



(DSC00362)

Appendix E

Plan for Future Seismic Walkdown of Inaccessible Equipment

As shown in the SWEL for Fermi 2 in Appendix B, 13 assets have been deferred until refueling outage 16. Table E-1 summarizes the reasons each asset is inaccessible during normal plant operation.

The 13 assets will be inspected no later than during Fermi 2's next refueling outage, RF16, currently scheduled for the first quarter of 2014. Results of these inspections will be submitted within 90 days of the outage completion.

Table E-1: Inaccessible Assets for RF-16 Walkdown

PIŞ Nümber	Component Description	Building	Floor	Grid	Elevation	Anchor configuration verfication req'd	Remarks
B2103F022A	NB MSL "A" INBO PC ISO AOV	DŴ	'1	2DEG	588'00"	, .N	Located in Drywell
B2103F022D	ŃB MSL "Ď" INBO PC ÍSO AÖV	DW	1	358DEG	588'00"	. N	Located in Drywell
B2103F028Ç	NB MSL "C" OTBD PC ISO AOV	R _E	1	F-12	589'06"	N	Located in RB Steam Tunnel
B21F013J	NB DIV1 SRV B2104F013J SOV	DW	1	314DEG	612'09"	. N	Located in Drywell
B21F028D	NB MÁIN STEAM ISO FÓR RPV STEAM LINE TO TÚRBINE V17-2008 SOV	RB	í	F-12	589'06;"	,N	Located in RB Steam Tunnel
B21N116B	NB MSL "B" LEAK DETECT DIV1 RTD	ТВ	2M	J-12	638'02''	N,	Located in TB Steam Tunnel
E4150F002	HPCI TURBINE STEAM SUPPLY INBOARD CONTAINMENT ISO MOV	DW	1	ODEG	586'06"	N	Located in Drywell
G3352F001	RWCU INBOARD CNTM ISO MOV	DW	1	229DEG	602'10"	N	Located in Drywell
R1400S001C	SWGR 4160V METALCLAD SWITCHGEAR BUS NO. 64C	АВ	2	G-10	613'08"	Υ	Bus needs to be de-energized
R1400S001E	SWGR 4160V METALCLAD SWITCHGEAR BUS NO. 65E DIV 2 (RHR B, CS, WCRD)	ΑB	3	H-10	643'06"	·Y	Bus ñeeds to be de-energized
R1400S002C	SWGR 4160V METALCLAD SWITCHGEAR DIESEL GENERATOR BUS NO. 13EC DIV2 (RHRSWB EDG13)	RHR	2	F-9	617'00''	Y'	Bus needs to be de-energized
R1400S023	SWGR 480V INDOOR UNIT SUBSTATION BUS NO. 72C (DIV 1)	AB:	2	G-10	613'06''	·Υ	Bus needs to be de-energized
R14005038	SWGR 480V INDOOR UNIT SUBSTATION BUS NO 72EC	RHR	2	F-8	617'00''	γ	Bus needs to be de-energized
-							
13	TOTAL	l	l		1	ŀ	

Date: November 20, 2012

Appendix F Peer Review Report

The Peer Review Team consists of two individuals whose qualifications are listed in Section 3 of this report. The lead reviewer has been at Fermi for twenty two years. Previously, he completed the SQUG Walkdown Screening and Seismic Evaluation Training Course, as well as the EPRI Seismic IPE Add-On Training Course.

The Peer Review Team covered areas outlined in Section 6 of EPRI Technical Report 1025286.

The team was involved in the review of SWEL 1 and SWEL 2. The Peer Review ensured the lists covered various systems in the plant, all five safety functions listed in Section 3 of EPRI Technical Report 1025286, all twenty one equipment types (except motor generators since they are classified as Non-Q), a variety of environments (drywell walkdowns will be performed during the next refueling outage), risk significance, major modifications since IPEEE, and revisions to the SWELs. The Peer Review team was instrumental in determining the need to add equipment in the drywell to SWEL1. Refer to checklist Figure F-1 below.

The Peer Review Team reviewed 28% of Walkdowns checklists (25) and Walk-By checklists (14), listed in Table F-1. The team also reviewed design verifications. Reviews were performed "real-time" during the Walkdown and Walk-By process and included reviews of draft SWCs. The team lead provided coaching on an as-needed basis, to the SWEs in the early stages, and was involved in resolution of NRC identified issues. This resulted in improved performance by the SWEs. The team reviewed all design related CARDs, and provided comments and assistance to the CARD initiator, and to the Shift Manager for determination of impact. The activities of the Peer Review team contributed to the improved quality of the Walkdown packages.

There was no need for licensing basis evaluations. The conditions identified in the CARDs did not challenge the licensing basis.

The Peer Review Team reviewed the final Submittal Report to ensure that it meets the objectives of the 10CFR50.54(f) Letter. The Peer Review Team concludes that the guidelines and requirements in EPRI Technical Report 1025286, endorsed by the NRC, were closely followed and met.

Date: November 20, 2012 F-1

Table F-1: Peer Review Summary of the 25 SWCs Review and Corresponding 14 AWCs

	,						///
PIS	PIS Component		FI.	Walkdown	PSE Peer Review	50% Anchor	AWC
Number	Description	Bldg.		Comp. Date	Comp. Date	Verif. (Y/N)	Reference
C4104F004A	SLC EXPLOSIVE (SQUIB) VLV	RB	2	8/8/12	8/21/12	N	RB2-1
E4101C001C	HPCI TURB DRIVEN OIL PUMP	RB	SB	8/7/12	8/17/12	N	RBSB-3
E4150F001	HPCI TURB STM SPLY ISO MOV	RB	SB	8/7/12	8/17/12	N	RBSB-3
E4150F004	HPCI BOOSTER PUMP SUCT FROM CST ISO MOV	RB	SB	8/7/12	8/17/12	N	RBSB-3
. H11P870	CRTL & AUX RM PNL (MR ONLY) MISC DC RELAY PANEL DIV2 INST RACK	AB	2	8/7/12	10/8/12	Y	AB2-1
H11P898B	CRTL & AUX RM PNL (MR ONLY) AUTO DIGITAL LOAD SEQ CAB DIV2 INST RACK	АВ	2	8/7/12	10/8/12	Y	AB2-1
H11P915	CRTL & AUX RM PNL (MR ONLY) PC MON EQUIP & MISC RELAY DIV2 INST RACK	AB	2	8/7/12	10/8/12	Y	AB2-1
H21P081	LOC PNL/RACK (MR ONLY) LOCAL PNL AND RACKS DIV2 ECCS TRIP UNIT INST RACK	АВ	4	9/6/12	10/22/12	Y	AB4-2
H21P083	LOC PNL/RACK (MR ONLY) ECCS TRIP UNIT CAB DIV2 INST RACK	AB	4	9/6/12	10/22/12	Y	AB4-2
H21P085	LOC PNL/RACK (MR ONLY) RPS TRIP UNIT CAB A2 DIV2 INST RACK	AB	4	8/31/12	10/22/12	Y	AB4-2
H21P087	LOCAL PNL AND RACKS RPS TRIP UNIT CAB B2 DIV2 INST RACK	· AB	4	9/6/12	10/22/12	Y	AB4-2
H21P100	LOC PNL/RACK (MR ONLY) REMOTE RX SHUTDOWN PANEL DIV1 INST RACK	AB	2	8/14/12	10/08/12	Y	AB2-2

Date: November 20, 2012

PIS Number	Component Description	Bldg.	Fl.	Walkdown	PSE Peer Review	50% Anchor Verif. (Y/N)	AWC Reference
				Comp. Date			
H21P420	LOC PNL/RACK (MR ONLY) HPCI DIV2 TURB AND PILOT VLV INST RACK	RB	SB	8/7/12	8/17/12	Y	RBSB-3
H21P628	LOC PNL/RACK (MR ONLY) DSD MCC 72B-2A LOCAL CTRL PANEL LOCAL PNL & RACKS	АВ	2	8/14/12 10/8/12	10/22/12	Y	AB2-2
P4400C001A	EMERGENCY EQUIPMENT COOLING WATER DIV1 PUMP	RB	2	8/16/12	9/18/12	Y	RB2-6
P4500C002B	EMERGENCY EQUIPMENT SERVICE WATER NORTH PUMP	RHR	1	8/9/12	8/22/12	Y	RHR1-2
R1400S039B	SWGR DIV2 480V ESS BUS 72ED V REG	RHR	2	8/10/12	9/18/12	Y	RHR2-2
R3000A011	EDG 11 W STARTING AIR RECEIVER	RHR	1	8/17/12	9/18/12	Y	RHR1-3
R3000D002	EDG 12 STARTING AIR COMPRESSOR	RHR	1	8/17/12	9/18/12	Y	RHR1-4
R3000F023D	EDG 14 ACS 3-WAY TEMP CTRL VLV	RHR	1	8/9/12	8/21/12	N	RHR1-5
R3001S001	EDG 11 4160V	RHR	1	8/23/12	9/17/12	Y	RHR1-8
R31K005	VITAL PWR DIST 120 VAC DIV2 2KVA INVERTER	АВ	2	8/6/12	9/17/12	Y	AB2-1
R3200S016	DC 260V DC MCC (2PB-1)	AB	3	8/9/12	9/17/12	Y	AB3-2
R3200S062	DC SWGR ROOM 130V DIST CABINET 2PA2-14	AB	2	8/14/12 10/8/12	8/21/12	Y	AB2-2
T4100B009	CCHVAC NORTH DIV1 AIR CONDITIONER CHILLER	AB	5	8/20/12	10/15/12	Y	AB5-1

F-4

Figure F-1: Peer Review Checklist for SWEL

Peer Review Checklist for SWEL

Instructions for Completing Checklist This peer review checklist may be used to document the review of the Seismic Walkdown Equipment List (SWEL) in accordance with Section 6: Peer Review. The space below each question in this checklist should be used to describe any findings identified during the peer review process and how the SWEL may have changed to address those findings. Additional space is provided at the end of this checklist for documenting other comments. 1. Were the five safety functions adequately represented in the SWEL 1 selection? \square N \boxtimes Y 1. Reactor Reactivity Control All Safety functions demonstrated and adequately represented 2. Reactor Coolant Pressure Control in selection matrix. Ops consulted to confirm. 3. Reactor Coolant Inventory Control V 4. Decay Heat Removal V 5. Containment Function 2. Does SWEL 1 include an appropriate representation of items having the following sample selection attributes: a. Various types of systems? Y⊠ N□ RHR, CS, HPCI, RCIC, RWCU, EECW, RBCCW, CA, EDG, CCHVAC, RBHVAC, SGTS, PC. RHRHVAC, SLC... b. Major new and replacement equipment? YX N SWEL Selection team demonstrated that CECO was used to find all EDPs and EREs since 1996 (IPEE) were screened for SWEL selection c. Various types of equipment? YX NU All equipment types listed in App. B of the EPRI Technical Report are represented except for #13, Motor Generators. Motor Generators at Fermi 2 are classified as Non-Q. d. Various environments? YX NO Hot, Cold, Indoor, Outdoor, Wet, Dry, Mild, Harsh environments selected. Harsh environments in Drywell to be done during Refueling Outage 16. Peer Reviewers stressed that equipment in the Drywell needed to be included as it is a uniquely harsh environment that cannot be replicated in other areas of the plant during normal operations.

√ F-3 >

Date: November 20, 2012

Figure F-1: Peer Review Checklist for SWEL

Peer Review Checklist for SWEL e. Equipment enhanced based on the findings of the IPEEE (or equivalent) program? YX N See Question 2(b) f. Were risk insights considered in the development of SWEL 1? YX N SWEL Selection team used MWC 13 to identify risk significant equipment. (Peer Reviewers wanted to know how risk was considered in the SWEL development process) 3. For SWEL 2: a. Were spent fuel pool related items considered, and if applicable included in YX N SWEL 2? b. Was an appropriate justification documented for spent fuel pool related items not YX N included in SWEL 2? There are no penetrations below 10 feet above the top of fuel assemblies in the Spent Fuel Pool, therefore there are no rapid drain-down items for the SWEL 2 list. Two items were removed from the SWEL 2 list. These items were removed because they are inaccessible due to being underwater, and are near the top of water level, and not a rapid drain-down concern. 4. Provide any other comments related to the peer review of the SWELs. SWEL list was revised during walkdowns for several reasons. Five were replaced because a fire protection coating did not allow for visual confirmation of the anchorage in cabinets. Four were replaced because the anchorage was not visible. One panel was replaced due to it being energized during normal operation and Refueling Outage 16 and not being available for inspection. All of these items were replaced with similar equipment items, and the variety of equipment for the SWEL list was not impacted. $YX N \square$ 5. Have all peer review comments been adequately addressed in the final SWEL?

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Figure F-1: Peer Review Checklist for SWEL

Peer Review Checklist for SWEL

Peer Reviewer #1: GEORGE

Peer Reviewer #2: Whitney Hemingway

Date: 10/31

Date: 10/31/12

Attachment 1

NRC's Revised Position – Provided to Inspection Branch on September 18, 2012

Q. Do cabinets have to be opened during the walkdowns?

A. Generally yes, for the Seismic Walkdowns. However, opening cabinets is not required for the Area Walk-Bys.

In the 50.54(f) letter, the Commission requested licensees to perform seismic walkdowns in order to identify and address plant specific degraded, non-conforming, or unanalyzed conditions and verify strategies, monitoring, and maintenance programs such that the nuclear power plant can respond to external events. In addition, the walkdown is intended to verify the current plant configuration is in accordance with the current licensing basis.

As described in the Seismic Walkdown Guidance on pages 4-2 and 4-3, the anchorage of the equipment on the SWEL that secures it to the building structure should be visually inspected for evidence of potentially adverse seismic conditions.

In addition, it is expected that all electrical cabinets on the SWEL that can be reasonably opened without undue safety or operational hazard will be opened during the walkdown, whether or not it is necessary to look inside to check the anchorages. These include cabinets that have doors or panels with latches or thumbscrews, and cabinets that do not require extensive disassembly to open. Cabinets on the SWEL with undue safety or operational hazards can be considered inaccessible and opening of the cabinet can be deferred in accordance with the 50.54(f) letter. For those cabinets that are not to be opened, and will not be placed on the inaccessible list for later inspection (e.g., extensive disassembly is required), licensees should document the justification for not opening the cabinet on the walkdown check sheet. The justification should include a discussion of how the goals of inspection for this SWEL item are still being met without opening the cabinets.

The visual inspection that should be made while viewing the interior of the cabinet through the door opening should include the following checks:

- 1. Visually check whether there is evidence that internal components are not adequately secured to the cabinet,
- 2. Check whether fasteners that secure adjacent cabinets together are in place, if such fasteners are needed to prevent potentially adverse seismic interaction between the cabinets, and
- 3. Look for "Other Adverse Seismic Conditions," as described on page 4-4 of the Seismic Walkdown Guidance.

Of course, if the anchorage that secures a cabinet to the building structure is located inside the cabinet, then the inspection of this anchorage should also be performed while the cabinet door is open.

When a cabinet door is opened, the inspection of internal components, cabinet anchorages, and "Other Adverse Seismic Conditions" should be limited to identifying only those conditions that can be observed without breaking the plane of the cabinet door, other than as minimally required to inspect anchorages. It is not necessary to move cables, to disassemble the cabinet by removing panels that are held in place by fasteners, or take other similar steps in an attempt to ensure that every internal component is adequately secured to the cabinet. Rather, it is sufficient to simply do a visual check for potentially adverse seismic conditions.

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It is not the intent of the internal cabinet inspection described above to require circuits to be interrupted or disconnected to gain access to the interior portions of the cabinet. For example, it is not necessary to rack out breakers in switchgear, disengage buckets in motor control centers, or remove circuit breakers in load center panels to perform these cabinet interior inspections.

Some examples of conditions that may be observed inside cabinets include missing or loose bolts (either to the floor or to adjacent equipment), nuts with insufficient thread engagement or missing/inappropriate washers, loose or missing fasteners between internal components and the cabinets, and loose bolts in the cabinet that could fall and hit relays during an earthquake. Other examples listed on page 4-4 of the Seismic Walkdown Guidance include degraded conditions, large or heavy components mounted on a cabinet that are not part of the original configuration, and cabinet doors or panels that are not latched or fastened.

Of course, it was not the intent of the walkdown to interfere with plant operation or challenge personnel safety, so energized cabinets that could cause a plant trip or endanger personnel if the doors are opened can be considered to be inaccessible, and added to the list of SWEL items to be walked down at a later time. In addition, for area walk-bys, cabinet doors do not need to be opened; however, the cabinet should be visually inspected for anchorage, seismic interaction, and other external adverse seismic conditions.

Licensees that have already completed their seismic walkdowns in response to the NRC 50.54(f) letter and that have not opened cabinet doors consistent with the expectations of the NRC should add these SWEL items to their list of items to be walked down at a later time. Consistent with the Seismic Walkdown Guidance, these items should be identified in the submittal report along with a plan for walking down these items in the future.

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