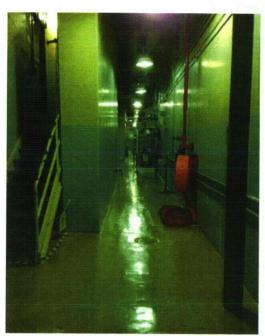
PCS	Paul C. Rizzo Associa Engineers & consultants	ites, Inc.						Sheet 21 of 13
A noo Walls E	By Checklist (AWC)				Status:	\odot	N	U
Area	<u>1AB-1g</u>	Floor El.	574	Bldg.	AX			
This checklist space below e	for Completing Check t may be used to docu each of the following of ace is provided at the	ment the results questions may be	e used to record t	he results of judg	gments and find			
	orage of equipment in adverse seismic cond binets)?			ily	Y X	N	U	N/A
Anchorage of	components in a high a distance of ~10 ft a							
2. Does ancho degraded co	ificant	Y X	N	U	N/A			
raceways ar seismic con conditions c	visual inspection from ad HVAC ducting app ditions (e.g., condition of cable trays appear to and piping in the area	ear to be free of n of supports is a o be inside accep	potentially adver dequate and fill stable limits)?		Y X	N	U	N/A
	bear that the area is fre s with other equipmen				Y X	N	U	N/A
Related equip 1E21N0050 1E22N0005 1E51N0055A 1G43N0060A 1G43N0060B		is area:						

	I C. Rizzo Associat	es, Inc.						1	Sheet 22 of 13
Area Walk-By C	Checklist (AWC)					Status:	\odot	Ν	U
Area	1AB-1g	Floor El.	574		Bldg.	AX			
Interaction Effec	cts		e ore of the original states of the states o				N	-	N1/A
interactions that	that the area is free at could cause flood tified regarding flood	ling or spray in				Y X	N	U	N/A
6 Doos it annoar	that the area is free	of notentially	adverse seismia			Y	N	U	N/A
interactions that	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? <i>To concerns identified regarding fire sources</i> .								
interactions as equipment, and	that the area is free sociated with hous I temporary installa ing machine adequ quately restrained	ekeeping practi ations (e.g., sca	ces, storage of p ffolding, lead sh	oortable iielding)?	in area	Y X	N	U	N/A
	ed for and found no ct the safety function					Y X	N	U	
nozzle loads. Thi	liameter lines to su is is judged to be O I to flood Category	K as the sump							
Comments (Add	itional pages may b	be added as nec	essary)						
	ditte	Mhraft	2						
Evaluated by:	Eddie M. Guer	ra	Million Constant and a state of the		Date:	8/26/	2012		
	Entfl								
	Brian A. Lucar	elli			Date:	8/26/	2012		

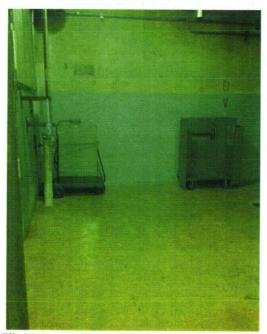
Sheet 22 of 139



Area Walk-I	By Checklist (AWC)				Status:	W	N	U
Area	1AB-1g	Floor El.	574	Bldg	AX			



File Name: 1-59-3-1-18.jpeg Description: General view north hallway



File Name: 1-65-3-1-18.jpeg Description: View of temporary equipment restrained



Status: 🕅 N U

Area Walk-By Checklist (AWC)

A	re	a

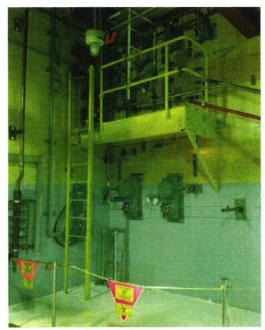
1AB-1g

Floor El.

574

Bldg. <u>AX</u>

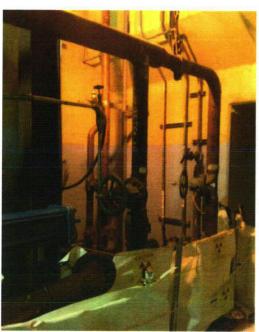
File Name: 1-66-3-1-18.jpeg Description: General view west hallway



File Name: 1-67-3-1-18.jpeg Description: Inaccessible high radiation contaminated area where anchorage was checked from ~10 ft



A waa Walle Der	Charlest (AWC)				Status:	\heartsuit	Ν	U
Area walk-by	Checklist (AWC)							
Area	1AB-1g	Floor El.	574	Bldg.	AX			



File Name: 1-68-3-1-18.jpeg Description: Rod Hung Sump Pump Piping

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				Sheet 26 of 139
Area Walk-By Checklist (AWC)	Status:	Y	\mathbb{N}	U
Area <u>1AB-2 West</u> Floor El. <u>599</u> Bldg	. <u>AX</u>			
Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near one of space below each of the following questions may be used to record the results of ju Additional space is provided at the end of this checklist for documenting other com	udgments and find			
	Y	N	U	N/A
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	X			200 II
TB Chillers 1P46-B001A and 1P46-B001B are very large double stack chillers and $3/4"$ anchor bolts on a ~16" wide x ~6" high pedestal. These chillers are not categories may not be adequate for seismic loading. Judged acceptable because the chillers h supply and would not impact or flood any CAT-1 components if they should fail.	gory I and anchor	age		
	Y	N	U	N/A
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?	X	1		
Anchorage for TB chillers identified with significant corrosion. This is judged to be as described in comments for Question 1.	e acceptable,			
	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)? <i>Cable trays in the area were identified to be rigidly supported.</i>	X			
	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)?	X		2. 2.	
Related equipment on SWEL for this area: 1H51P0037				

5	Paul C. Rizzo Associates,	Inc.
	ENGINEERS & CONSULTANTS	

Area Walk-B	By Checklist (AWC)	Status:	Y	N	U			
Area	1AB-2 West	Floor El.	599	Bldg.	AX		_	
Interaction E	offects				v	N	ŤŤ	21/4
	ear that the area is free that could cause flood				Y X	N	U	N/A
	n piping is a combinati t systems. No concerns	*	· · · · ·					
					Y	N	U	N/A
interactions Potential Fire	ear that the area is free that could cause a fire Sources in the Area: I tified regarding fire so	in the area? <i>BCC Lubricati</i>			X		L.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
					Y	N	U	N/A
interaction	ear that the area is free s associated with house and temporary installa	keeping practi	ces, storage of J	portable		X		
	ng area is adjacent to (slide into panel. CR 20				ent or pieces			
	boked for and found no affect the safety functio				Y X	N	U	

Comments (Additional pages may be added as necessary)

atter Mehmest

Evaluated by:

Eddie M. Guerra

Date: 8/26

8/26/2012

Du t

Brian A. Lucarelli

Date:

8/26/2012



Status: Y 🕅 U

Area Walk-By Checklist (AWC)

Area

1AB-2 West Floor El. 599

Bldg. AX



File Name: 1-59-3-1-20.jpeg Description: View of scaffold staging area



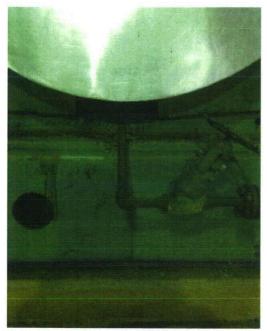
File Name: 1-66-3-1-20.jpeg Description: View of scaffold staging area



Area Walk-By Che	ecklist (AWC)				Status:	Y	\mathbb{N}	U.	
Area	1AB-2 West	_Floor El.	599	Bldg.	AX				



File Name: 1-67-3-1-20.jpeg Description: View of 1P46B001A water chiller in the area



File Name: 1-70-3-1-20.jpeg Description: View of corroded pipe in 1P46B001A



N Status: Y U

Area Walk-By Checklist (AWC)

Area

1AB-2 West Floor El.

599

Bldg. AX



File Name: 1-71-3-1-20.jpeg Description: View of corroded bolt located north east end of 1P46B001B



File Name: 1-77-3-1-20.jpeg Description: General view of chillers

Paul C ENGINEER	C. Rizzo Associato R5 & CONSULTANTS	es, Inc.						Sheet 31 of 13
Area Walk-By Ch	ecklist (AWC)				Status:	\odot	N	U
Area	1AB-2 East	_Floor El.	599	Bldg.	AX			
Instructions for Co This checklist may space below each o Additional space is	be used to docum f the following qu	ent the results estions may be	e used to record th	e results of judg	gments and fin			
1. Does anchorage of potentially advers opening cabinets	se seismic conditi			ly	Y X	N	U	N/A
2. Does anchorage of degraded condition Anchorage for two of This is judged to be would not impact on	ons? CAT-2 chillers in acceptable becau	area were ider se the chillers	ntified with signifi have a limited wa	cant corrosion.	Y X	<u>N</u>	U	N/A
3. Based on a visual raceways and HV seismic conditions conditions of cabl <i>Overhead piping for</i>	AC ducting appears (e.g., condition of e trays appear to b	r to be free of of supports is a be inside accep	potentially advers dequate and fill	se	Y X	N	U	N/A
4. Does it appear that interactions with lighting)?					Y X	N	U	N/A
Related equipment of 1H51P0975	on SWEL for this	area:						

Sheet 31 of 139



					Status:		Ν	U
Area Walk-By Cl	hecklist (AWC)							
Area	1AB-2 East	Floor El.	599	Bldg.	AX		_	
Interaction Effec	ts				Y	N	U	N/A
5. Does it appear to interactions that <i>Fire protection pip</i> <i>sources.</i>	t could cause flood	ing or spray in	the area?	egarding flood	X			
 Does it appear t interactions that No concerns ident 	could cause a fire	in the area?	adverse seismic		Y X	N	U	N/A
interactions ass equipment, and	that the area is free sociated with house temporary installa <i>Iding found to be w</i>	ekeeping practi tions (e.g., scaf	ces, storage of p		Y X	N	U	N/A
	ed for and found not t the safety function				Y X	N	U	n Morea (Marta - anana - anta
Comments (Addi	tional pages may b	e added as nec	essary)					
	Itte	Mhraft	7					
Evaluated by:	Eddie M. Guer	ra		Date:	8/26/2	012	_	
	Ew	Hll						
	Brian A. Lucar	elli		Date:	8/26/2	012	-	

DCS	Paul C. Rizzo Associates, I	nc.
	ENGINEERS & CONSULTANTS	

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(Y)

Ν

Status:

AX

Area	Wa	lk-By	Checklist	(AWC)
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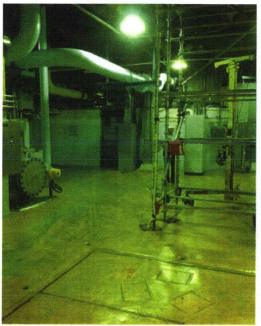
Area

1AB-2 East

Bldg.

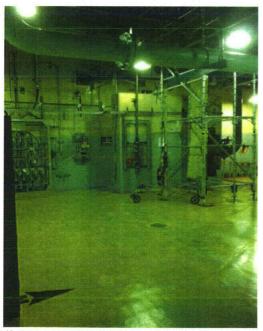
Other supporting or relevant documents and photos (if any):

599



Floor El.

File Name: 1-72-3-1-20.jpeg Description: General view



File Name: 1-74-3-1-20.jpeg Description: General view



Status: 🕅 N U

Area Walk-By Checklist (AWC)

Area

1AB-2 EastFloor El.599

Bldg.

AX

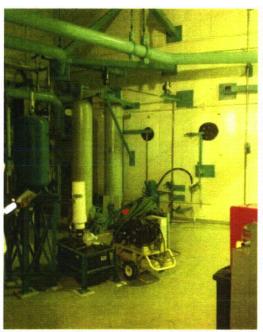
File Name: 1-76-3-1-20.jpeg Description: View of overhead piping restraints

	Paul C. Rizzo Associa ngineers & consultants	ites, Inc.							Sheet 35 of 13
					Sta	atus:	(i)	N	U
Area Walk-B	y Checklist (AWC)								
Area	1AB-3a	Floor El.	620	Bldg.	AX				
This checklist space below ea	for Completing Check may be used to docut ach of the following of ace is provided at the	ment the results questions may be	e used to record	the results of jud	dgments ar			e 	
					Y	•	N	U	N/A
	rage of equipment in				X	:			
opening cab	rage of equipment in				Y X	in the second second second	N	U	N/A
					Y		N	U	N/A
raceways and seismic cond conditions of	visual inspection from d HVAC ducting app litions (e.g., condition f cable trays appear to a the area were identi	ear to be free of n of supports is a b be inside accep	potentially adve dequate and fill stable limits)?	erse				1	
					Y		Ν	U	N/A
interactions lighting)?	ear that the area is fre with other equipmen are rod hung and the lged OK.	t in the area (e.g	., ceiling tiles ar	nd	X qte				
Related equipr 1P57F0015B	nent on SWEL for th	is area:							

	C. Rizzo Associate	es, Inc.					5	licet 50 01 15
Area Walk-By Ch	necklist (AWC)				Status:	(N	U
Area	1AB-3a	Floor El.	620	Bldg.	AX			
Interaction Effect	ts.				Y	N	U	N/A
5. Does it appear the interactions that No concerns identi	could cause flood	ing or spray in						
	could cause a fire not restrained, bu	in the area? t the lid is tight.	Judged not to crea	ate potential	Y X	N	U	N/A
	ociated with house	ekeeping practic	dverse seismic es, storage of porta folding, lead shieldi		Y X	N	U	N/A
Tool and equipmen	nt carts in area ha	ve wheels choci	ked. Ladders are tie	d or clamped				
St	d for and found no t the safety functio		conditions that could ment in the area?	1	Y X	N	U	
Comments (Addit	ional pages may b	e added as nece	ssary)					
	Atti	Mult						
Evaluated by:	Eddie M. Guerr	a		Date:	8/26/20	12		
	En	Υll						
	Brian A. Lucard	elli		Date:	8/26/20	12		



					Status:	(Y)	Ν	U
Area Walk-E	By Checklist (AWC)							
Area	1AB-3a	Floor El.	620	Bldg.	AX			



File Name: 1-59-2-1-15.jpeg Description: General view



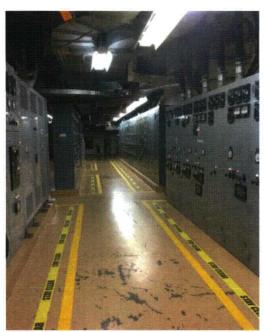
File Name: 1-60-2-1-15.jpeg Description: View of HVAC support

Pau ENGIN	1 C. Rizzo Associa EERS & CONSULTANTS	tes, Inc.						Sheet 38 of 139
Area Walk-By C	Thecklist (AWC)				Status:	Y	(U
Area	<u>1CC-3a</u>	Floor El.	620	Bldg.	CC			
This checklist ma space below each	Completing Chec by be used to docur of the following q is provided at the o	nent the results uestions may be	e used to record t	he results of judg	gments and fir		• •	
					Y	N	U	N/A
potentially adv opening cabine Cabinet 1R24-S0	e of equipment in erse seismic condi ets)? 023 welded to shin Il referenced Desig	tions (if visible	without necessar	78 for ECP 02-	X			di n- r
2. Does anchorag degraded cond	e of equipment in itions?	the area appear	to be free of sign	ificant	Y X	N	U	N/A
raceways and H seismic conditi conditions of ca	ual inspection from IVAC ducting app ons (e.g., condition able trays appear to <i>cable trays in the</i>	ear to be free of of supports is a be inside accept	potentially adverted adequate and fill ptable limits)?		Y X	N	U	N/A
interactions wi lighting)? An unrestrained generated to doc Most flourescent observed, but it w	that the area is free th other equipment tool storage locker ument this situation lights have compre- was judged to be un	t in the area (e.g. was found near n, and the cabin ession fittings. likely to impact	., ceiling tiles an components. C. et was subsequer 4 row of twist-in any components	d R 2012-12222 ntly moved. style lights was	Y	N X	U	N/A
positioned in the issue.	f switchgears were center of the switc nt on SWEL for th	hgear, consister			2			
1R22S0006-E04 1R23S0012 1R24S0028 1R25S0018 1R25S0020								

	I C. Rizzo Associa	tes, Inc.				Sheet 39 of 139
Area Walk-By C	hecklist (AWC)				Status: Y	🕅 U
Area	<u>1CC-3a</u>	Floor El.	620	Bldg.	CC	
Interaction Effec	ets			i. gujun september in g	Y N	- U N/A
	that the area is free t could cause floor					
	valve near compon ving throughout roo				d	
interactions that	that the area is free could cause a fire <i>tified regarding fir</i>	in the area?	adverse seismic		Y N X	U N/A
interactions ass equipment, and	that the area is free sociated with hous temporary installa <i>IR24-S028 has wh</i>	ekeeping practi ations (e.g., scat	ces, storage of po		Y N X	U N/A
	ed for and found not the safety function				Y N X	U
Comments (Addi	tional pages may b	be added as nec	essary)			
	Idda	Mhraft	7			
Evaluated by:	Eddie M. Guer	ra	n Handiyayi Kali Ani, Kani Sanahar,	Date:	8/26/2012	
	Ew	HU				
	Brian A. Lucar	elli	and a second	Date:	8/26/2012	. .



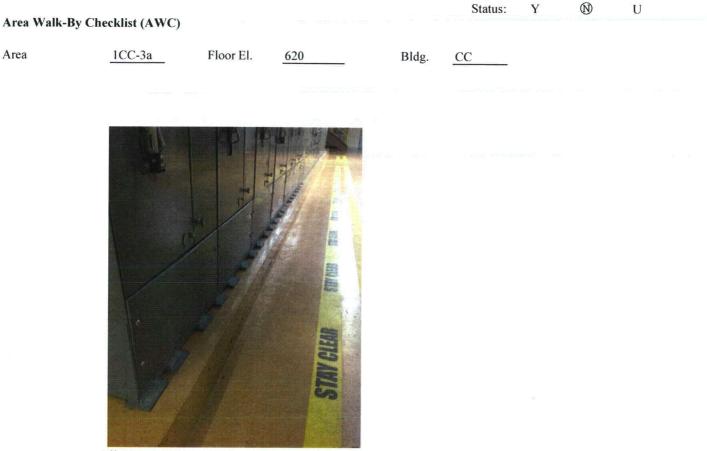
					Status:	Y	\mathbb{N}	U	
Area Walk-By	y Checklist (AWC)								
Area	1CC-3a	Floor El.	620	Bldg.	CC				



File Name: 1-59-1-1-06.jpeg Description: General view of room



File Name: 1-65-1-1-06.jpeg Description: Fire protection valve well supported



File Name: 1-68-1-1-06.jpeg Description: View of MCC EF1C07 anchorage (1R24-S0023)



File Name: 1-69-1-1-06.jpeg Description: Tool locker not restrained behind bus/breakers



					Status:	Y	\mathbb{N}	U	
Area Walk-B	by Checklist (AWC)								
Area	1CC-3a	Floor El.	620	Bldg.	CC				



File Name: 1-71-1-1-06.jpeg Description: View of trolley on top of Cabinet



File Name: 1-72-1-1-06.jpeg Description: View of area where tool locker was located



					Status:	Y	\mathbb{N}	U
Area Walk-B	By Checklist (AWC)							
Area	1CC-3a	Floor El.	620	Bldg.	CC			



File Name: 1-74-1-1-06.jpeg Description: View of trolley on top of Cabinet



File Name: 1-75-1-1-06.jpeg Description: View of single row of fluorescent lights

	Paul C. Rizzo Associal Engineers & consultants	tes, Inc.						She
Area Walk-B	By Checklist (AWC)				Status:	Ŷ	N	
Area	<u>1CC-3b</u>	Floor El.	620	Bldg.	CC			
This checklist space below e	for Completing Chect t may be used to docurt each of the following q ace is provided at the o	ment the results of puestions may be	e used to record t	he results of jud	dgments and fin		>	
	[2] M.	Anna an	an a		Y	N	U	-
	orage of equipment in t adverse seismic condi-			ily	X		<u></u>	<u> </u>
Cabinet 1R24	-S0029 welded to shin ad all referenced Desig							
2. Does ancho degraded co	prage of equipment in to onditions?	the area appear t	to be free of sign	ificant	Y X	N	U	
					Y	N	U	
raceways ar seismic con conditions c	visual inspection from ad HVAC ducting apped ditions (e.g., condition of cable trays appear to	ear to be free of a of supports is a b be inside accep	potentially adve adequate and fill ptable limits)?	rse	X		1	
Cable trays ir	n the area were identifi	ied to be rigidly	supported.		V	N	I.	
	ear that the area is free s with other equipment				X	IN		Ι
	ights appear to have co n.	ompression fittir	ıgs, thus judged	acceptable for				
Related equip 0R42S0011 1E22S0005	ment on SWEL for thi	is area:						
1H51P0872								

LA K	Paul C. Rizzo Associates, Inc.
	ENGINEERS & CONSULTANTS

Area Walk-By Ch	nocklist (AWC)					Status:	(i)	N	U
Area	<u>1CC-3b</u>	Floor El.	620		Bldg.	<u></u>			
Interaction Effect	S	атары қазақ жардардардардар жарал 	aran ya kunan ya kuna		an ang a	Y	N	- U	N/A
5. Does it appear the interactions that No concerns identi	could cause floo	oding or spray in				X			
6. Does it appear the interactions that interactions that is no concerns identities in the interaction of th	could cause a fir	e in the area?	adverse se	eismic		Y X	N	U	N/A
7. Does it appear the interactions associated equipment, and the Eyewash station are concern.	ociated with hou temporary instal	sekeeping practi lations (e.g., sca	ces, storag ffolding, l	ge of porta ead shield	ing)?	Y X	N	U	N/A
 8. Have you looked adversely affect Comments (Addit 	the safety funct	ions of the equip	oment in tl		d	Y X	N	U	
	Atta	Mund							
Evaluated by:	Eddie M. Gue	1/00			Date:	8/26/20	012		
	Brian A. Luca	arelli			Date:	8/26/20	012	-	



					Status:	(\mathfrak{V})	Ν	U
Area Walk-B	By Checklist (AWC)							
Area	1CC-3b	Floor El.	620	Bldg.	CC			

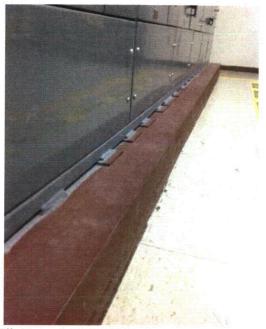


File Name: 1-59-2-1-06.jpeg Description: General view of room



File Name: 1-60-2-1-06.jpeg Description: General view of room





File Name: 1-65-2-1-06.jpeg Description: View of 1R24-S0029 welded shims

Paul C. ENGINEERS &	Rizzo Associa	tes, Inc.						1	Sheet 48 of 13
Area Walk-By Chec	klist (AWC)					Status:	\odot	N	U
Area	1CC-3c	Floor El.	620	В	ldg.	<u>CC</u>			
Instructions for Con This checklist may be space below each of t Additional space is p	used to docur he following q	nent the results uestions may be	e used to record	the results o	fjudgn	nents and fin		-	
						Y	N	U	N/A
1. Does anchorage of potentially adverse				arily		X			
opening cabinets)? Cabinets 1R24-S0021 to embeds. SQ-0178 confirms this is consid	for ECP 02-01	84 rev 0 and all			er than				
2. Does anchorage of degraded condition		the area appear t	to be free of sig	nificant		Y X	N	U	N/A
3. Based on a visual i	nenaction from	, the floor, do th	e cable/conduit			Y X	N	U	N/A
raceways and HVA seismic conditions (conditions of cable <i>HVAC ducts and cable</i>	C ducting app e.g., condition trays appear to	ear to be free of a of supports is a b be inside accept	potentially adv adequate and fil ptable limits)?	erse 1					
4. Does it appear that interactions with or lighting)?						Y X	N	U	N/A
Fluorescent lights ap, motion. A single row judged not to have an Trolleys on top of swi in the center of the sw	of flourescent y credible imp tchgears were	lights was obse pact targets as it observed to be	rved with twist- was more than unrestrained. T	-in fittings, b ~4' from coi These trolley	ut this r mponen	ow was ts.			
Related equipment or 0R24S0020 1R22S0007 1R25S0014 1R25S0016 1R25S0025 1R25S0033	SWEL for th	is area:							



.

Area Walk-By Ch	ecklist (AWC)					Status:	\odot	N	U
Area	1CC-3c	Floor El.	620	Blc	lg.	<u></u>			
Interaction Effects	s		an an line line.	n an		Y	N	- U	N/A
5. Does it appear the interactions that Fire protection value adequately support identified regarding	could cause floodi we located ~10 ft fi ed. Fire protectio	ng or spray in t com regulating	the area? <i>transformer judg</i>	0	15				
6. Does it appear th interactions that c <i>No concerns identij</i>	could cause a fire i	n the area?	dverse seismic			Y X	N	U	N/A
	at the area is free ociated with house emporary installat	keeping practic	es, storage of po			Y X	N	U	N/A
 8. Have you looked adversely affect 	for and found no the safety function					Y X	N	U	
Comments (Additi	onal pages may be	added as nece	ssary)						
	- delie,	Uhraft							
Evaluated by:	Eddie M. Guerra	1		Dat	te:	8/26/2	012	.	
	Brian A. Lucare	LU 11i		Dat	le:	8/26/2	012	- '	

U

(Y)

Status:

CC

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Area Walk-By Checklist (AWC)

Area

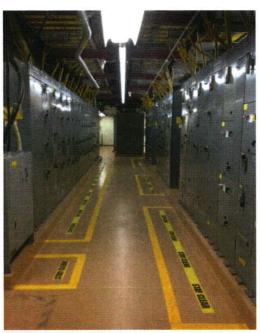
1CC-3c

Floor El.

Bldg.

Other supporting or relevant documents and photos (if any):

620



File Name: 1-59-3-1-06.jpeg Description: General view of room



File Name: 1-60-3-1-06.jpeg Description: View of 1R24-S0021 welded to shims



Status:	(Y)	Ν	U	
---------	-----	---	---	--

Area Walk-By Checklist (AWC)

A	-	0
	16	a

1CC-3c

Floor El. 620

Bldg. <u>CC</u>



File Name: 1-65-3-1-06.jpeg Description: View of supports for cable trays



File Name: 1-67-3-1-06.jpeg Description: Fire protection valve near transformer judged to be adequately supported



				91 . Dg	Status:	(\mathbf{Y})	Ν	U	
Area Walk-By	Checklist (AWC)								
Area	1CC-3c	Floor El.	620	Bldg.	CC				



File Name: 1-69-3-1-06.jpeg Description: Welded shims for 1R21-S0019



File Name: 1-70-3-1-06.jpeg Description: Welded shims for 0R24-S0035



Status: 1 N U

Area Walk-By Checklist (AWC)

· ^	ro	0	
	10	a	

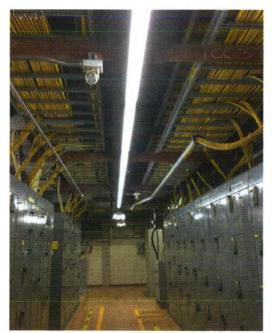
1CC-3c

Floor El. <u>620</u>

Bldg. <u>CC</u>



File Name: 1-71-3-1-06.jpeg Description: View of trolley on top of Cabinet



File Name: 1-72-3-1-06.jpeg Description: View of single row of fluorescent lights

	ULC. Rizzo Associat	tes, Inc.								Sheet :
Area Walk-By	Checklist (AWC)					Statu	is:		Ν	ι
Area	1CC-4b	Floor El.	620	В	ldg.	IB				
This checklist n space below eac	r Completing Chec nay be used to docum ch of the following q e is provided at the e	nent the results uestions may be	e used to record the	e results o	of judgi	nents and				
an 1992 na 1997 na 1996 na banda ang 1992 na 1996 na 1997 na 1996 na 1996 na 1997 na 1996 na 1996 na 1996 na 1	and the second	ha da an a' shi and la mananana "Ya	an a 'n an an an an an additata. ²⁹ t adhite	a ta sharaana taraa		Y		N	U	N
	age of equipment in t lverse seismic condi nets)?			У		X				
						Y		N	U	N/
2. Does anchora degraded con	age of equipment in a aditions?	the area appear	to be free of signif	icant		X				
		tat an contac				Y		N	U	N/
raceways and seismic condi conditions of	isual inspection from HVAC ducting appo- tions (e.g., condition cable trays appear to <i>ntified to be rigidly s</i>	ear to be free of of supports is a be inside accept	potentially advers adequate and fill	e		X			aning, giografia (Included	
	ar that the area is free with other equipment					Y X		N	U	N/
• •	ng is adequately resi	trained.								
Related equipm 1G41F0145	ent on SWEL for th	s area:								

.



Area Walk-By Ch	ecklist (AWC)					Status:	\otimes	N	U
Area	<u>1CC-4b</u>	Floor El.	620	Bld	g	IB	-		
Interaction Effect	s		177			Y	N	- U	N/A
5. Does it appear th interactions that					Į	X			
Fire protection pip is judged to be OK the area vulnerable	due to the low de	emand, small die	ameter pipe, an	d no equipment					
6. Does it appear th interactions that c <i>No concerns identij</i>	could cause a fire	in the area?	dverse seismic		[Y X	N	U	N/A
7. Does it appear th interactions asso equipment, and t <i>An unrestrained tab</i>	ciated with hous emporary installa	ekeeping practic ations (e.g., scaf	ces, storage of j folding, lead sh	portable nielding)?	[Y X	N	U	N/A
 8. Have you looked adversely affect 	l for and found no the safety function				[Y X	N	U	ļ
Comments (Additi									
	Addie	Mundt							
Evaluated by:	Eddie M. Guer	ra	ii 	Date		8/26/	/2012	•:	
	En	fll							
	Brian A. Lucar	*		Date	: -	8/26/	/2012	•1	



Status: 🕅 N U

Area Walk-By Checklist (AWC)

Area

1CC-4b

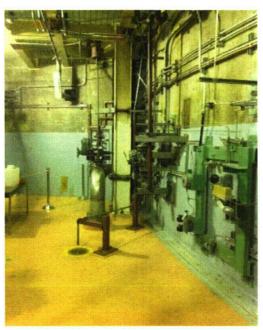
Floor El.

_____ Bldg.

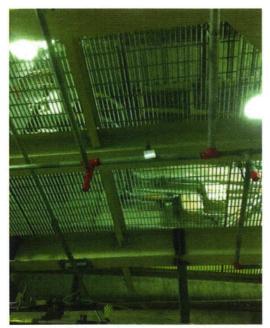
IB

Other supporting or relevant documents and photos (if any):

620



File Name: 1-59-2-1-16.jpeg Description: General view of room



File Name: 1-60-2-1-16.jpeg Description: Friction clip on fire protection piping



Status: 🕅 N U

Area Walk-By Checklist (AWC)

A	r	e	a	

1CC-4b

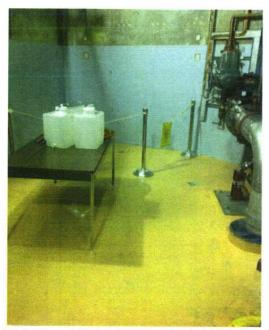
Floor El.

620

Bldg. <u>IB</u>



File Name: 1-65-2-1-16.jpeg Description: View of fire protection piping and overhead grating



File Name: 1-66-2-1-16.jpeg Description: Potential impact from table judged not to be significant

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			5	Sheet 58 of 139
Area Walk-By Checklist (AWC)	Status:	\odot	N	U
Area <u>ICC-4c</u> Floor El. <u>638</u> Bldg.	<u></u>			
Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near one or mespace 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 commer	nents and find			
	Y	N	U	N/A
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	X	L	ŝ	
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Y X	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	Y X	N	U	N/A
seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Cable trays and HVAC in the area were identified to be rigidly supported.				
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)?	Y X	N	U	N/A
Fluorescent lights are rod hung and have compression fittings, thus judged acceptable seismic motion. Trolley on top of cabinet was positioned on center of cabinet consistent with IPEEE rest the issue and judged not to be a concern.				
Related equipment on SWEL for this area: 1R42S0008 1R42S0013 1R42S0014 1R42S0038				
1174250050				



DCS	Paul C. Rizzo Associates, Inc.
	ENGINEERS & CONSULTANTS

					Status:		Ν	U
Area Walk-By Ch	ecklist (AWC)							
Area	1CC-4c	Floor El.	638	Bldg.	<u> </u>	dition d	ar X the Willower X	
Interaction Effect			साल भाषाल बहुत ह	ч _{л.} вто	Y	N	- U	N/A
	could cause flood	ling or spray in t		arding flood	X			
6. Does it appear the interactions that of No concerns identi	could cause a fire	in the area?	dverse seismic		Y X	N	U	N/A
	ociated with house	ekeeping practic	dverse seismic es, storage of portable olding, lead shielding		Y X	N	U	N/A
	l for and found no the safety function		onditions that could nent in the area?		Y X	N	U	
Comments (Additi	onal pages may b	e added as neces	ssary)					
	ditte	Mhraft						
Evaluated by:	Eddie M. Guer	ra		Date:	8/26/20)12	<u>.</u>	
	En	Hll						
	Brian A. Lucar	elli		Date:	8/26/20	012	-	



						\odot	N	U
Area Walk-By Che	ecklist (AWC)				Status	U U		0
Area	1CC-4c	Floor El.	638	Bldg.	CC			



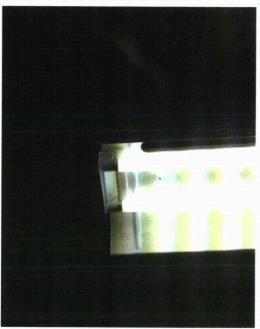
File Name: 1-59-1-1-02.jpeg Description: General view of room



File Name: 1-60-1-1-02.jpeg Description: Rigid support cable tray and HVAC



					Status:	(Y)	Ν	U	
Area Walk-	By Checklist (AWC))							
Area	1CC-4c	Floor El.	638	Bldg.	CC				



File Name: 1-65-1-1-02.jpeg Description: View of compression fitting on fluorescent light



File Name: 1-66-1-1-02.jpeg Description: View of trolley on top of Cabinet

	Paul C. Rizzo Associa	ates, Inc.								Sheet 62 of 139
Aroo Wall B	y Checklist (AWC)					5	Status:	\odot	N	U
Area	1CC-4g	Floor El.	638		Bldg.	CC				
				•						
This checklist space below e	for Completing Che may be used to docu each of the following ace is provided at the	ment the results questions may be	e used to record	the results	ofjudg	gments				
							Y	N	U	N/A
	orage of equipment in adverse seismic cond binets)?			arily			X			
opening eat	Sinces):									
2. Does ancho	orage of equipment in	the area appear	to be free of sig	gnificant		_	Y X	N	U	N/A
degraded co			, e							
							Y	N	U	N/A
raceways an seismic cone conditions o	visual inspection from ad HVAC ducting app ditions (e.g., condition of cable trays appear to	pear to be free of on of supports is a to be inside accep	potentially adv adequate and fil ptable limits)?	erse II		L	x			
HVAC and ra	ceways in the area w	ere identified to	be rigidly suppo	orted.						
4. Does it app	ear that the area is fro	ee of potentially	adverse seismic	spatial			Y X	N	U	N/A
	s with other equipmen				0	, L				
	ghts have compression	an an an Alban ann an Alban an Alban ann an Alban an Alb								
	top of component is onsistent with the IPE			d at the cen	ter of th	he				
Related equip 1R42S0012	ment on SWEL for th	his area:								
1R42S0012 1R42S0024										



Area Walk-By C	hecklist (AWC)				Status:	\heartsuit	Ν	U
Area	<u>1CC-4g</u>	Floor El.	638	Bldg.	CC			
nteraction Effec	ts		en e	Shealar (dec a	enedini (Co	ir ei		
interactions that	hat the area is free t could cause floor CO2 piping. No c	ding or spray in	the area?	d sources.	Y X	<u>N</u>		N/A
interactions that	hat the area is free could cause a fire <i>ified regarding fir</i>	in the area?	adverse seismic		Y X	N	U	N/A
interactions ass	hat the area is free sociated with hous temporary installa	ekeeping practi	ces, storage of po		Y X	N	U	N/A
adversely affec	d for and found ne t the safety function tional pages may b	ons of the equip	ment in the area?		Y X	N	U	
	ditte	all thing It						
Evaluated by:	Eddie M. Guer	та		Date:	8/26/20	012	-	
	Brian A. Lucar	·		Date:	8/26/20	012	-	



			Status:	(\mathfrak{V})	Ν	U
Area Walk-By Checklist (AWC)						

Area

1CC-4g

Floor El.

Bldg. CC

Other supporting or relevant documents and photos (if any):

638



File Name: 1-59-3-1-02.jpeg Description: General view of room



File Name: 1-60-3-1-02.jpeg Description: View of trolley on top of Cabinet

PCS	Paul C. Rizzo Associ	ates, Inc.						Sheet 65 of 139
					Status:		N	U
Area Walk-I	By Checklist (AWC)							
Area	<u>1CC-4h</u>	Floor El.	638	Bldg.	<u> </u>	11. 11. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		
This checklis space below of	for Completing Che t may be used to docu each of the following pace is provided at the	ment the results questions may be	e used to record t	he results of jud	gments and find			
					Y	N	U	N/A
	orage of equipment in adverse seismic cond binets)?			ily	X			
					Y	N	U	N/A
2. Does anche degraded c	orage of equipment in conditions?	the area appear	to be free of sign	ificant	X	<u> </u>		
raceways an seismic con conditions o	a visual inspection from nd HVAC ducting app aditions (e.g., condition of cable trays appear the in the area were identication of the second second second second second second second second second second second s	bear to be free of n of supports is a to be inside accept	potentially advert adequate and fill ptable limits)?	rse	Y X	N	U	N/A
interaction: lighting)?	bear that the area is from s with other equipmer the area identified with	nt in the area (e.g	., ceiling tiles and		Y X	N	U	N/A
Related equip 1R42S0002	oment on SWEL for the	iis area:						

PCR Pa ENC	ul C. Rizzo Associa	ates, Inc.					;	Sheet 66 of 139
Area Walk-By	Checklist (AWC)				Status:	\odot	N	U
Area	<u>1CC-4h</u>	Floor El.	638	Bldg.	<u></u>			
Interaction Eff	fects				Y	N	U	N/A
interactions t	ar that the area is from that could cause flow entified regarding f	oding or spray ir			X			
6 Does it annea	ar that the area is fro	ee of potentially	adverse seismic		Y	N	U	N/A
interactions th	hat could cause a fin entified regarding f	e in the area?					Ű	
7 Does it appe	ar that the area is fro	ee of potentially	adverse seismic		Y	N	U	N/A
interactions equipment, a	associated with hound temporary instal associated with hound temporary instal an identified to be bo	sekeeping pract lations (e.g., sca	ices, storage of po					JJ
	oked for and found fect the safety funct				Y X	N	U]
Comments (Ac	dditional pages may	be added as neo	cessary)					
	de	to Minal	, 4					
Evaluated by:	Eddie M. Gu	erra	lennetatis täänen 2007 – sisteminen kääne	Date:	8/26/	2012	÷	
	En	ALU						
	Brian A. Luc	arelli		Date:	8/26/	2012	•	



					Status:	(\mathfrak{V})	N	U
Area Walk-By Checklist (AWC)								
Area	1CC-4h	Floor El.	638	Bldg.	CC			



File Name: 1-59-4-1-02.jpeg Description: General view of room



File Name: 1-60-4-1-02.jpeg Description: Protective light cover

	Paul C. Rizzo Associa Engineers & Consultants	ates, Inc.						Sheet 68 of 139
					Status	s: Y	\mathbb{N}	U
Area Walk-H	By Checklist (AWC)							
Area	1CC-5a	Floor El.	654	Bldg.	CC			
This checklis space below of	for Completing Che t may be used to docu each of the following pace is provided at the	ment the results questions may b	e used to record	the results of jud	gments and		ne	
					Y	N	U	N/A
	orage of equipment in adverse seismic cond binets)?			rily	X			6 6
2. Does anche degraded c	orage of equipment in conditions?	the area appear	to be free of sigr	nificant	Y X	N	U	N/A
 Based on a raceways an seismic con 	n visual inspection from nd HVAC ducting app nditions (e.g., condition of cable trays appear t	bear to be free of n of supports is	f potentially adve adequate and fill		Y X	N	U	N/A
4. Does it app	pear that the area is fro s with other equipment	ee of potentially	adverse seismic		Y	N X	U	N/A
(CR 2012-12	rs were not tied off to 1 335) was written to ia egg crate tiles togeth	lentify an opport			tie			
Related equip	oment on SWEL for the	nis area:						

1C22P0001 1H13P0701



Area Walk-By C	`hecklist (AWC)					Status:	Y	\mathbb{N}	U
Area	<u>1CC-5a</u>	Floor El.	654	4 11 12	Bldg.	CC			
Interaction Effec	ets	an ann an Statistic an Statistic (Statistics) Br	47 		8 87	anan anan anan anan anan anan anan ana		2 	
interactions that	that the area is free at could cause flood tified regarding flood	ding or spray in		at straatt		Y X	N	U	N/A
6. Does it appear interactions that	that the area is free could cause a fire		adverse seismic			Y X	N	U	N/A
No concerns iden	tified regarding fir	e sources.							
equipment, and	sociated with hous temporary installa <i>com furniture were</i>	ekeeping practi ations (e.g., scat e located in the	ces, storage of j folding, lead sh vicinity of cabin	portable nielding)? nets. The co	ontrol	Y	N X	U	N/A
8. Have you looke adversely affec	ed for and found not the safety function					Y X	N	U]
Comments (Addi Walkdown of Cor validate findings of	ntrol Room on 8/10	0/12 by M. Alvi	and J. Redding			ers to			
These panels I 2. Panels H13-P Per the referer	001 and P002: Dra have no sensitive r 881 and P882: Dra need calc, there are 71: These panels a	elays, therefore awing racks loca e no sensitive re	no seismic II/I ated next to thes lays in the pane	concern. se panels. els.		inity.			
4. Panel H13-P8	67 Relay Panel: D	esk/podium sto	red next to this	panel. Pane	el is not	seismically ser	nsitive.		
5. Panel H13-P8	72: Table stored n	ext to this pane	I. CR-2012-123	31 written	to docu	ment this conc	ern.		
	Atte	Mhall							
Evaluated by:	Eddie M. Guer			1	Data	8/26/20	112		

Evaluated by:

Eddie M. Guerra

Date:

8/26/2012

D

Brian A. Lucarelli

Date:

8/26/2012



Status: Y 🕲 U

Area Walk-By Checklist (AWC)

Area

1CC-5a

Floor El.

Bldg. CC

Other supporting or relevant documents and photos (if any):

<u>65</u>4



File Name: 1-59-1-1-03.jpeg Description: Supply locker not anchored



File Name: 1-60-1-1-03.jpeg Description: Ceiling tiles not anchored



					Status:	Y	\mathbb{N}	U
Area Walk-By	Checklist (AWC)							
Area	1CC-5a	Floor El.	654	Bldg.	CC			



File Name: 1-65-1-1-03.jpeg Description: Desks adjacent to reactivity control cabinets



File Name: 1-68-1-1-03.jpeg Description: Table not restrained



					Status:	Y	\mathbb{N}	U	
Area Walk-I	By Checklist (AWC)								
Area	1CC-5a	Floor El.	654	Bldg.	CC				



File Name: 1-67-1-1-03.jpeg Description: Cabinet not anchored

PCS	Paul C. Rizzo Associa Engineers & consultants	tes, Inc.						Sheet 73 of 139
Area Walk-I	By Checklist (AWC)				Status:	8	N	U Marine Andrews
Area	1DG-1a	Floor El.	620	Bldg.	DG			
This checklist space below e	for Completing Chec at may be used to docur each of the following q pace is provided at the o	nent the results uestions may b	e used to record the re	sults of judg	ments and fin			
	orage of equipment in adverse seismic condi binets)?				Y X	N	U	N/A
2. Does ancho degraded co	orage of equipment in too	the area appear	to be free of significar	nt	Y X	N	U	N/A
raceways ar seismic con conditions c	a visual inspection from nd HVAC ducting appo- nditions (e.g., condition of cable trays appear to n the area were identifi	ear to be free of of supports is a be inside accept	potentially adverse adequate and fill ptable limits)?		Y X	N	U	N/A
	bear that the area is free s with other equipment			1	Y X	N	U	N/A
Related equip 1M43C0002E 1M43F0220B 1R43S0001B 1R45C0002B 1R46B0002B	3	s area:						

	C. Rizzo Associat	es, Inc.						Sheet 74 of 139
Area Walk-By Ch	necklist (AWC)				Status:	Ŷ	N	U
Area	1DG-1a	Floor El.	620	Bldg.	DG			
Interaction Effect 5. Does it appear th interactions that No concerns identi	hat the area is free could cause flood	ing or spray in			Y X	N	U	N/A
6. Does it appear the interactions that a Potential Fire Sourcerns identified	could cause a fire rces in the Area: 1	in the area? DG Diesel Fuel		ing Oil. No	Y X	N	U	N/A
	ociated with house	ekeeping praction	adverse seismic ces, storage of por folding, lead shiel		Y X	N	U	N/A
 8. Have you looked adversely affect Comments (Addit 	t the safety function	ons of the equip	ment in the area?	uld	Y X	N	U	anda suat a dista
Evaluated by:	Eddie M. Guer			Date:	8/26/20	012		
	Brian A. Lucar	elli		Date:	8/26/2	012		



U

Area Walk-By Checklist (AWC)

Area

1DG-1a

Floor El.

Bldg.

Status:

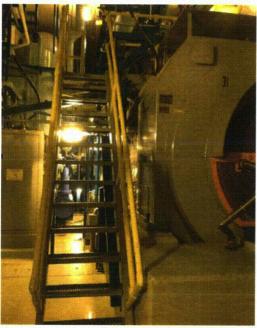
DG

(Y)

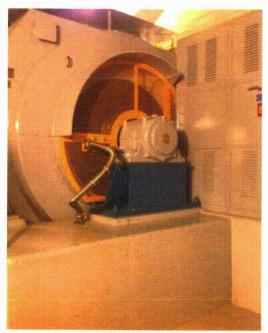
Ν

Other supporting or relevant documents and photos (if any):

620



File Name: 1-59-3-1-08.jpeg Description: General view



File Name: 1-60-3-1-08.jpeg Description: General view

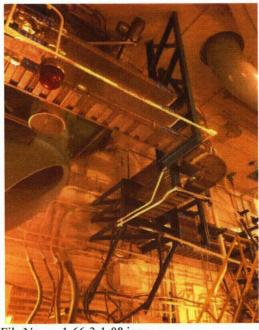


Status:	

Area Walk-By Checklist (AWC) Area 1DG-1a Floor El. 620 Bldg. DG



File Name: 1-65-3-1-08.jpeg Description: General view



File Name: 1-66-3-1-08.jpeg Description: Rigid supports for cable trays

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				Sheet 77 of
	Status:	\odot	N	U
Area Walk-By Checklist (AWC)				
Area <u>1DG-1b</u> Floor El. <u>620</u> B	ldg. <u>DG</u>			
Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near o space below each of the following questions may be used to record the results o Additional space is provided at the end of this checklist for documenting other o	of judgments and find			
	Y	N	U	N/A
1. Does anchorage of equipment in the area appear to be free of	X			
potentially adverse seismic conditions (if visible without necessarily opening cabinets)?				
	Y	Ν	U	N/A
2. Does anchorage of equipment in the area appear to be free of significant	X		U	
degraded conditions?				
	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)? <i>All items in area are rigidly supported.</i>	X			
	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)?	X			
Overhead crane in the area observed to be positioned away from components.				
Related equipment on SWEL for this area: 1E22B5003 1E22S0001 1H51P1421 1R42S0037				

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS

Brian A. Lucarelli

					Class	Ø	N	T
Area Walk-By Che	ecklist (AWC)				Status:	W	N	U
Area	1DG-1b	Floor El.	620	Bldg.	DG			
Interaction Effects	(Y	N	U	N/A
5. Does it appear that interactions that of <i>Fire protection is C</i>	could cause floodi	ng or spray in t	the area?	od sources.		IN		
					Y	N	U	N/A
6. Does it appear the interactions that co Potential Fire Source concerns identified	ould cause a fire i ces in the Area: D	n the area? G Diesel Fuel		tting Oil. No	X		а	
	at the area is free ciated with house emporary installat	keeping practic	es, storage of po		Y X	N	U	N/A
· •	the safety function	ns of the equip	ment in the area		Y X	N	U	н ці ці
Comments (Additio	onal pages may be	added as nece	ssary)					
Evaluated by:	Eddie M. Guerra	UShnaft Lll		Date:	8/26/2	012		

Date:

8/26/2012



U

(Y)

Ν

Status:

DG

Area Walk-By Checklist (AWC)

Area

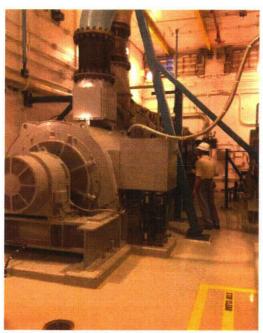
1DG-1b

Floor El.

Bldg.

Other supporting or relevant documents and photos (if any):

620



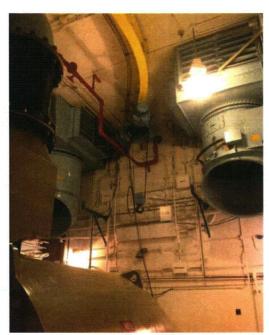
File Name: 1-59-2-1-08.jpeg Description: General view of room



File Name: 1-60-2-1-08.jpeg Description: General view of room



Area Walk-By Checklist (AWC) Status: W N U Area 1DG-1b Floor El. 620 Bldg. DG



File Name: 1-65-2-1-08.jpeg Description: Crane away from components

	Paul C. Rizzo Associa ngineers & consultants	tes, Inc.						Sheet 81 of 13
Area Walk-B	y Checklist (AWC)				Status	: 🕅	N	U
Area	<u>1DG-1c</u>	Floor El.	620	Bldg.	DG	<u></u>		*
This checklist space below e	For Completing Chec may be used to docur ach of the following q ace is provided at the o	nent the results juestions may be	e used to record t	he results of jud	gments and f			
			in and a second s		Y	N	U	N/A
potentially a opening cab	rage of equipment in adverse seismic condi binets)? bbserved to be crooke	tions (if visible	without necessar	ly	X			
2 Dece encho		(1	- h- C C-:	C	Y	N	U	N/A
degraded co	rage of equipment in onditions?	the area appear	to be free of sign	ncant	X			
3 Based on a	visual inspection from	the floor do th	e cable/conduit		Y	N	U	N/A
raceways and seismic conc conditions of	d HVAC ducting appe litions (e.g., condition f cable trays appear to the area were identifie	ear to be free of of supports is a be inside accep	potentially adver dequate and fill stable limits)?	se		131-12-14-14-14-14-14-14-14-14-14-14-14-14-14-		
	ear that the area is free with other equipment				Y X	N	U	N/A
Related equipr 1M43C0001A 1M43F0030A 1R45A0003A 1R45C0003A 1R45N0140A 1R46B0001A		s area:						

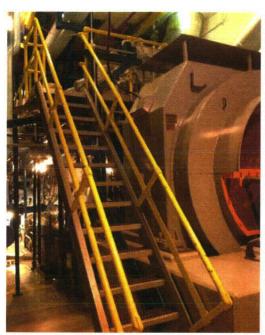
Sheet 81 of 139

Area Walk-By Ch Area Interaction Effects 5. Does it appear th interactions that <i>Fire protection is r</i>	1DG-1c	Floor El.	620				
5. Does it appear th interactions that <i>Fire protection is r</i>	s			Bldg.	DG		
interactions that Fire protection is r					V	N	-
flood sources.	could cause floo	ding or spray in	the area?	fied regarding	Y X	N	U
 Does it appear th interactions that of 			adverse seismic		Y X	N	U
Potential Fire Sour concerns identified			and DG Lubrica	tting Oil. No			
	ociated with hous	sekeeping practi	adverse seismic ces, storage of po ffolding, lead shi		Y X	N	U
					Y	N	U
8. Have you looked adversely affect			conditions that comment in the area		X		L
Comments (Additi	ional pages may	be added as nec	essary)				
	ditte	Mundt	2				
Evaluated by:	Eddie M. Gue	rra		Date:	8/26/2	2012	
	En	4 fll					
	Brian A. Luca	relli		Date:	8/26/2	2012	- 6.

Sheet 82 of 139



Area Walk-By			Status:	(N	U			
Area	1DG-1c	Floor El.	620	BI	dg.	DG			



File Name: 1-59-1-1-08.jpeg Description: General view of room

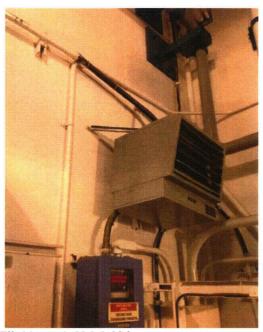


File Name: 1-60-1-1-08.jpeg Description: General view of room

PCS	Paul C. Rizzo Associa Engineers & Consultants	ates, Inc.						heet 84 of 13	9
					Status:	\odot	N	U	
Area Walk-	By Checklist (AWC)								
Area	1DG-1c	Floor El.	620	Bldg.	DG				



File Name: 1-65-1-1-08.jpeg Description: View of crooked heater. Not a concern for operability.



File Name: 1-66-1-1-08.jpeg Description: View of heater anchorage



					Status:	(Ν	U
Area Walk-I	By Checklist (AWC)							
Area	1DG-1c	Floor El.	620	Bldg.	DG			



File Name: 1-67-1-1-08.jpeg Description: General view of top of generator

	Paul C. Rizzo Associ	ates, Inc.							Sheet 8
Area Walk-B	y Checklist (AWC)					Status:	\odot	N	U
Area	2CC-3a	Floor El.	620	В	ldg.	CC			
This checklist space below e	for Completing Che may be used to docu ach of the following ace is provided at the	ument the results questions may be	e used to record	the results o	of judgm	ents and fin			
	rage of equipment ir adverse seismic conc pinets)?			rily		Y X	N	U	N/.
2. Does ancho degraded co	brage of equipment in conditions?	n the area appear	to be free of sig	nificant		Y X	N	U	N//
raceways an seismic con- conditions c	visual inspection fro d HVAC ducting ap ditions (e.g., condition of cable trays appear to the area were ident	pear to be free of on of supports is a to be inside accep	potentially advected adequate and fill potentially advected adequate and fill potable limits)?	erse		Y X	<u>N</u>	U	N/.
interactions lighting)?	ear that the area is fr s with other equipme ights have compressi	nt in the area (e.g	., ceiling tiles a	nd	с	Y X	N	U	N/
Related equip 2R42S0037	ment on SWEL for t	his area:							



Area Walk-By Ch	ecklist (AWC)				Status:	(N	U
Area	<u>2CC-3a</u>	Floor El.	620	Bldg.	CC			
Interaction Effects	l						-	
5. Does it appear th interactions that of No concerns identif	could cause flood	ling or spray in						N/A
6. Does it appear th interactions that c <i>No concerns identif</i>	ould cause a fire	in the area?	dverse seismic		Y X	N	U	N/A
7. Does it appear the interactions asso equipment, and to <i>Eyewash station and</i>	ciated with house emporary installa	ekeeping practic	ces, storage of p		Y X	N	U	N/A
8. Have you looked adversely affect					Y X	N	U	
Comments (Additio	onal pages may b	e added as nece	essary)					
	Atte	Mund						
Evaluated by:	Eddie M. Guer	ra		Date:	8/26/20	012	-	
	En	4ÎÛ						
	Brian A. Lucar	elli		Date:	8/26/20	012		

PCS	Paul C. Rizzo Associ Engineers & consultants	ates, Inc.						Sheet 88 of	139
Area Walk-	By Checklist (AWC)				Status:	(N	U	
Area	2CC-3a	Floor El.	620	Bldg.	CC				

Sheet 88 of 139



File Name: 1-59-1-1-07.jpeg Description: General view

	Paul C. Rizzo Associa RGINEERS & CONSULTANTS	ites, Inc.							Sheet 89 of 139		
						Status:	(N	U		
Area Walk-By	y Checklist (AWC)										
Area	2CC-6a	Floor El.	679	1	Bldg.	<u>CC</u>					
This checklist space below ea	or Completing Check may be used to document in of the following of ce is provided at the	ment the results questions may be	e used to record	the results	ofjudgr	nents and fin					
						Y	N	U	N/A		
1. Does anchor	age of equipment in	the area appear	to be free of			X					
opening cab 2. Does anchor	age of equipment in					Y X	N	U	N/A		
degraded co		a de Gerra de di				Y X	N	U	N/A		
raceways and seismic cond conditions of	visual inspection from HVAC ducting app itions (e.g., condition cable trays appear to the area were identi-	ear to be free of n of supports is a o be inside accep	potentially adve dequate and fill stable limits)?	erse							
	ar that the area is fre with other equipmen					Y X	N	U	N/A		
Related equipm 0M23C0001A 0M23C0002A 0M23F0100A	nent on SWEL for th	is area:									

Pau ENGIN	I C. Rizzo Associa EERS & CONSULTANTS	tes, Inc.						Sheet 90 of 139
					Status:	\odot	N	U
Area Walk-By C	<u>2CC-6a</u>	Floor El.	679	Bldg.	CC			
Interaction Effe	cts	ang kang pan pangan kang pangan ang manan	ana <u>na ka</u> na ina ana ana ana ana ang	un der mit mit den Konstensionen	Y	N	- U	N/A
interactions that Potential Flood S (0P47A0002A).	that the area is fre at could cause floo cource in the Area: Fire protection pip dry throughout re ources.	ding or spray in Control Compl ving judged not i	the area? lex Chilled Water to be a concern. I	Piping is welded	X			
interactions that	that the area is fre t could cause a fire <i>tified regarding fi</i>	e in the area?	adverse seismic		Y X	N	U 	N/A
interactions as equipment, and	that the area is fre sociated with hous temporary install were found to be play	sekeeping practi ations (e.g., sca	ces, storage of po		Y X	N	U	N/A
	ed for and found n ct the safety functi				Y X	N	U]
Comments (Add	itional pages may	be added as nec	essary)					
	dette	Munatt	2					
Evaluated by:	Eddie M. Gue		in the second	Date:	8/26/2	2012	 .	
	Brian A. Luca	relli		Date:	8/26/2	2012	_	



					Status:	S (Y)	N	U
Area Walk-	By Checklist (AWC))						
Area	2CC-6a	Floor El.	679	Bldg	CC			



File Name: 1-59-1-1-04.jpeg Description: General view



File Name: 1-60-1-1-04.jpeg Description: General view

Status: 🕅 N U

Area Walk-By Checklist (AWC)

Area	2CC-6a	Floor El. 679	Bldg CC
Alta	200-0a		Diug. CC



File Name: 1-65-1-1-04.jpeg Description: General view

	ul C. Rizzo Associa	ates, Inc.						Sheet 93 of 139
Area Walk-By	Checklist (AWC)				Status:	\odot	N	U a gang ti ti centa all hills her alla
Area	CC-1	Floor El.	586	Bldg.	CC			
This checklist m space below eac	r Completing Chee hay be used to docu th of the following of e is provided at the	ment the results questions may b	e used to record the	results of judg	ments and fine		andin-n- musik mil	
					Y	N	U	N/A
potentially ad	ige of equipment in lverse seismic cond			L	X			
walkdown was p	d instrument air dry performed and it wa ponent located in th	as confirmed tha	t there is no safety i	related	/1			
2. Does anchora degraded con-	ge of equipment in ditions?	the area appear	to be free of signifi	cant	Y X	N	U	N/A
					Y	N	U	N/A
raceways and seismic condit	sual inspection from HVAC ducting app tions (e.g., condition cable trays appear to	ear to be free of n of supports is a	potentially adverse adequate and fill			19		
	d raceways in the a erved to have adequ	and the second		Show we were a strength	d			
	an again annan an an annan agus annan a				Y	N	U	N/A
	r that the area is fre vith other equipmen			itial	X	n na		
Related equipme 0H51P0039 0H51P0193 0H51P0318 0P47B0001A 0P47C0001A 1P42B0001B 1P42C0001B 1P42F0665A 1P42F0665B	ent on SWEL for th	is area:						

PCS	Paul C. Rizzo Asso	ciates, Inc.						Sheet 94 of 13
					Status:	\odot	N	U
Area Walk-	By Checklist (AWC)						
Area	<u>CC-1</u>	Floor El.	586	Bldg.	<u>CC</u>			
Interaction	Effects				v	N	U	N/A
		free of potentially adve ooding or spray in the				N		

Potential Flood Sources in the Area: Sewage Ejectors (0P66A5001A and 0P66A5001B), Electrical Hot Water Heater (0P71A0003), and CC Chilled Water Storage Tanks (0P47A5006A, 0P47A5006B, and 0P47A5006C). Fire protection piping ranges from 1" to 4" diamter and is primarily rod hung, potential to interact with other overhead piping. Branch pipes are supported by rod hangers that utilize friction clips. Fire protection piping is victaulic coupling type 77 (grooved connection) and judged OK. Configuration judged to be acceptable based on previous seismic evaluations shown in 36-series calculations. No concerns identified regarding flood sources.

 6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?
 Y
 N
 U
 N/A

 7
 N
 U
 N/A

 8
 X
 Image: Compression of the Area: CCW Water Chiller Lubrication and P51/P52 Air Compressor Oil. No concerns identified regarding fire sources.
 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)? 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?

Cast iron pipes were identified with tags reading Seismic Violation. After walkdown proceedings, it was confirmed that these tags relate back to a seismic walkdown from the past that identified issues and design engineering resolved issues. No further action was required.

1" to 3" diameters piping to water heater P71-A003 is rod hung. Judged OK as it is non-seismic and potential flooding would not impact equipment.

6 inch diameter cast iron sewage piping observed to be supported by long rod hangers. Judged OK as the piping is nonseismic and potential flooding would not impact Category I equipment.

Comments (Additional pages may be added as necessary)

Evaluated by:

Eddie M. Guerra

Date:

Entfl

Brian A. Lucarelli

Date:

8/26/2012

8/26/2012



Status: 🛞 N U

Area Walk-By Checklist (AWC)

Area

<u>CC-1</u>

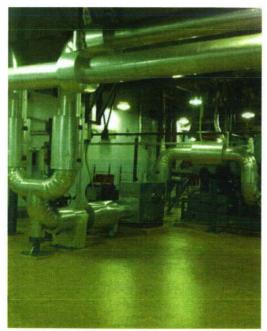
Floor El.

Bldg. CC

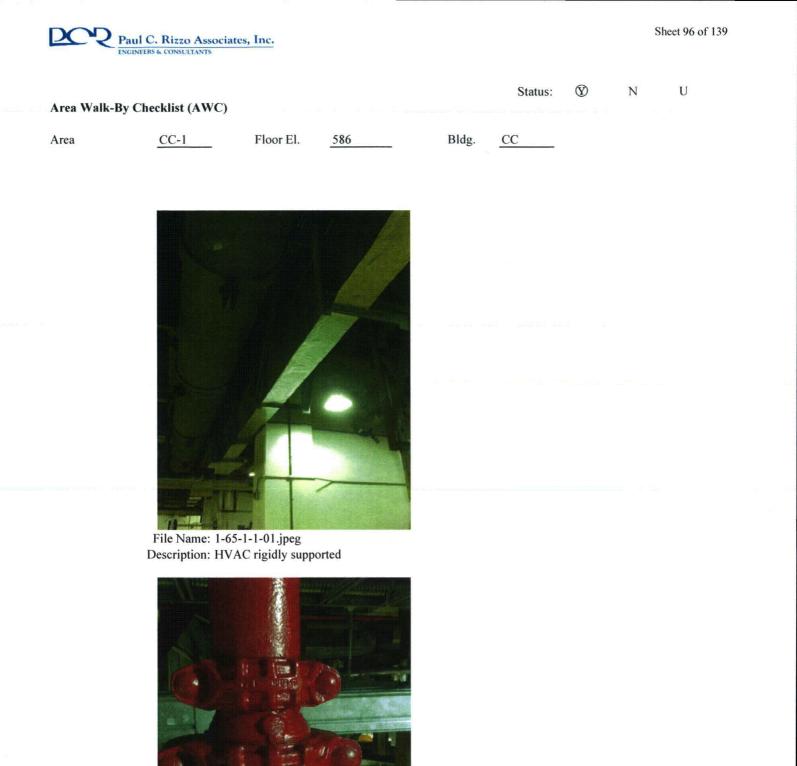
Other supporting or relevant documents and photos (if any):



File Name: 1-59-1-1-01.jpeg Description: General view of room



File Name: 1-60-1-1-01.jpeg Description: General view of room



File Name: 1-66-1-1-01.jpeg Description: Victaulic fire protection piping



Area Walk-By Checklist (AWC)

Area

<u>CC-1</u>

Floor El. 586

Bldg. <u>C</u>

CC

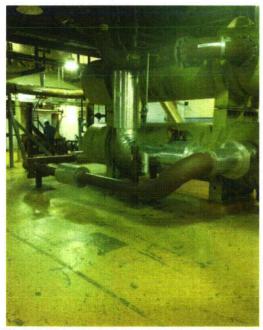
Status:

(Y)

Ν



File Name: 1-67-1-1-01.jpeg Description: Rod hung fire protection piping



File Name: 1-70-1-1-01.jpeg Description: General view of B area

Status:	(Y)	Ν	U

Area Walk-By Checklist (AWC)

Δ	re	20	
11	13	-0	

<u>CC-1</u>

Floor El.

586

Bldg.

CC



File Name: 1-71-1-1-01.jpeg Description: Cast iron pipe



File Name: 1-74-1-1-01.jpeg Description: Air dryer rack (1P52-D003B) missing anchorage (similar issue 1P52-D003A)



					Status:	(Y)	Ν	U	
Area Walk-H	By Checklist (AWC)								
Area	CC-1	Floor El.	586	Bldg.	CC				



File Name: 1-75-1-1-01.jpeg Description: Anchorage for air dryer racks (at top)

	aul C. Rizzo Associa	tes, Inc.					5	Sheet 100 of 139
4					State	us: 🕅	N	U
Area Walk-By	y Checklist (AWC)							
Area	<u>CO-620</u>	Floor El.	620	Bldg.	<u>CO</u>			a.
This checklist space below ea	or Completing Chec may be used to docur ach of the following of ce is provided at the	nent the results juestions may be	e used to record	the results of jud	dgments and		he	
					Y	N	U	N/A
	rage of equipment in dverse seismic condi			arily	X		1	
opening cab			without necess					
2 Does anchor	rage of equipment in	the area annear t	to be free of sid	mificant	Y X	N	U	N/A
degraded co		ule alea appeal		sinneant				1
	anchors identified in a or seismic issues.	instrument racks	s base. Judged	not to be a conce	ern			
		*			Y	N	U	N/A
raceways and seismic cond conditions of	visual inspection from d HVAC ducting app litions (e.g., condition f cable trays appear to a the area were identi	ear to be free of a of supports is a b be inside accept	potentially adv adequate and fi ptable limits)?	/erse	X			
					Y	Ν	U	N/A
interactions	ear that the area is fre- with other equipment			-	X		I	
	ring floor grating fou tightened nuts are p			not to be signific	cant			
Related equipr 1B21N0067C 1B21N0073C	nent on SWEL for th	is area:						

	11 C. Rizzo Associa NEERS & CONSULTANTS	ites, Inc.					S	heet 101 of	139
Area Walk-By (Checklist (AWC)				Status:	Ø	N	U	
Area	<u>CO-620</u>	Floor El.	620	Bldg.	<u>CO</u>				
interactions th	ects that the area is fre at could cause floo ntified regarding fl	ding or spray in			Y X	N	U an ar shar	N/A	r Line melli tiler m
interactions that	that the area is fre at could cause a fire atified regarding fi	e in the area?	adverse seismic		Y X	N	U	N/A	l
interactions as equipment, and		sekeeping practic ations (e.g., scaf	ces, storage of porta folding, lead shield		Y X	N	U	N/A	
	ted for and found neet the safety function		conditions that coul ment in the area?	d	Y X	N	U		

Some small diameter piping observed that crosses over to drywell wall support. This piping was judged to have adequate flexibility to accommodate the very small seismic anchor movement loads expected at El. 620.

Comments (Additional pages may be added as necessary)

Evaluated by:

Eddie M. Guerra

Brian A. Lucarelli

Date:

Date:

8/26/2012

8/26/2012



Area Walk-By Checklist (AWC)

Area

<u>CO-620</u>

Bldg. CO

Status:

(Y)

Ν

Other supporting or relevant documents and photos (if any):

620



Floor El.

File Name: 1-59-1-1-13.jpeg Description: General view



File Name: 1-65-1-1-13.jpeg Description: Corrosion in instrument rack anchorage



Area Walk-By Checklist (AWC)					Status:	(N	U
Area	CO-620	Floor El.	620	Bldg.	СО			



File Name: 1-66-1-1-13.jpeg Description: Loose nut for securing grating.



File Name: 1-71-1-13.jpeg Description: Mild corrosion identified in anchorage

	C. Rizzo Associa	((5) , (1) ,						heet 104 c
					Status	: 🕅	N	U
rea Walk-By C	hecklist (AWC)							
rea	<u>CO-642</u>	Floor El.	642	Bldg.	<u>CO</u>		_	
his checklist may bace below each	of the following q	ment the results juestions may be	of the Area Walk-I used to record the list for documenti	results of judg	ments and fi		8	
					Y	N	U	N/A
			to be free of without necessarily					
					Y	N	U	N/A
Does anchorage degraded condit		the area appear	to be free of signifi	cant	X			
lightly corroded	1 Th 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a wall support j	ded strut is ignore for a 1/2" diameter		OK due to sn Y X	nall demar N	nd loads. U	N/A
raceways and H seismic conditio conditions of ca	and the second	ear to be free of n of supports is a b be inside accept	potentially adverse dequate and fill stable limits)?				L	1
D	4	C			Y X	N	U	N/A
			adverse seismic spa ., ceiling tiles and	itiai				
	d anan muun and	MOV in this and						
Drip tray observed ipe and judged C		MOV in this are	a. Tray is attached	to overnead				

et 104 of 120



Sheet 105 of 139

Area Walk-By C	hecklist (AWC)				Status: 🕅	N	U ,
Area	<u>CO-642</u>	Floor El.	642	Bldg.	<u></u>		
Interaction Effec	ts		en an anna an Anna ann an Anna Anna Anna			 	
interactions that	that the area is free t could cause flood tified regarding flood	ding or spray in			Y N X		N/A
interactions that	that the area is free could cause a fire <i>tified regarding fir</i>	in the area?	adverse seismic		Y N X	U	N/A
interactions ass equipment, and	temporary installa	ekeeping practi ations (e.g., scat	adverse seismic ces, storage of porta ffolding, lead shield <i>quately restrained</i>		Y N X	U	N/A
	d for and found not t the safety function		conditions that coul ment in the area?	d	Y N X	U	
Comments (Addi	tional pages may b	be added as nec	essary)				
	Iditi	Mhalt	1				
Evaluated by:	Eddie M. Guer	ra		Date:	8/26/2012		
	En	HÛ					
	Brian A. Lucar	elli		Date:	8/26/2012	<u>11</u>	



Status: 🕅 N U

Area Walk-By Checklist (AWC)

Area

CO-642

Floor El.

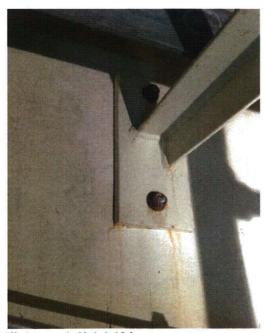
Bldg. CO

Other supporting or relevant documents and photos (if any):

642



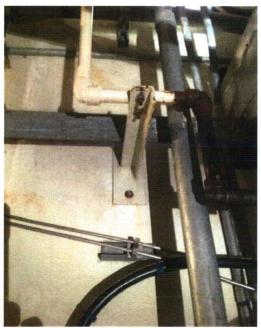
File Name: 1-59-1-1-12.jpeg Description: General view



File Name: 1-60-1-1-12.jpeg Description: Surface corrosion identified



					Status:	 Ν	U	
Area Walk-B	y Checklist (AWC)							
Area	<u>CO-642</u>	Floor El.	642	Bldg.	СО			



File Name: 1-65-1-1-12.jpeg Description: Surface corrosion identified



File Name: 1-67-1-1-12.jpeg Description: Surface corrosion identified



					Status:	(Y)	Ν	U
Area Walk-B	y Checklist (AWC)							
Area	CO-642	Floor El.	642	Bldg.	СО			



File Name: 1-68-1-1-12.jpeg Description: Surface corrosion identified



File Name: 1-69-1-1-12.jpeg Description: General view



Area Walk-By Ch	hecklist (AWC)				Status:	Ŷ	N	U	
Area	<u>CO-642</u>	Floor El.	642	Bldg.	CO				



File Name: 1-70-1-1-12.jpeg Description: Ladders tied

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				S	Sheet 110 of 139
		Status	: 🕅	N	U
Area Walk-By Checklist (AWC)					
Area EW-1 Floor El. 586	Bldg.	EW	-		
Instructions for Completing Checklist This checklist may be used to document the results of the Area W space below each of the following questions may be used to recor Additional space is provided at the end of this checklist for docum	d the results of judgr	ments and fi			
		Y	N	U	N/A
 Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without neces opening ophinate)? 	sarily	X			
opening cabinets)? In the concrete pad for Pump 0P54C0002, surface spalling was of Additionally, 2 of the $4 \sim 5/8"$ anchor bolts have an edge distance conditions are judged OK, as the pump is rigidly supported at the which will provide additional restraint.	of ~ 4 inches. These				
2. Does anchorage of equipment in the area appear to be free of s	ionificant	Y	N	U	N/A
2. Does anchorage of equipment in the area appear to be nee of side degraded conditions? Corrosion observed in the base plate for 2H51-P753B judged OK would not impact any nearby components. Corrosion observed in Skid judged OK since it is top restrained and a very light skid.	because falling			n na	
		Y	N	U	N/A
3. Based on a visual inspection from the floor, do the cable/condu- raceways and HVAC ducting appear to be free of potentially ad seismic conditions (e.g., condition of supports is adequate and f conditions of cable trays appear to be inside acceptable limits)? <i>Rigidly supported raceways identified in the area, spanning</i> ~10 <i>j</i> <i>conduit for H51-P010A observed to have friction-type clamps wite</i> <i>clamps. Friction clamps judged OK due to very small imposed low</i>	verse ill ft. Attached top entry h no restraining	X X	er van Ooren (Bernard en Service		
		Y	N	U	N/A
4. Does it appear that the area is free of potentially adverse seism interactions with other equipment in the area (e.g., ceiling tiles		X			
lighting)? Fluorescent light fixture is rigidly supported. Lights appear to be influence and judged not likely to cause spatial interaction. Over interaction source. Space heater judged OK due to lateral restra	head bridge crane n	ot a credibl	-		
Related equipment on SWEL for this area: 0H51P1310 0P49D0001A 0P49F0502A 1P45C0001B 1P45F0130B 1P45F0660 1R24S0032					

ENGIN	EERS & CONSULTANTS					0			
Area Walk-By (Checklist (AWC)	19 1			Status:	Y	N	U	
Area	<u>EW-1</u>	Floor El.	586	Bldg.	EW				
nteraction Effe	cts						-	<u>.</u>	
interactions that otential Flood S		oding or spray in a: Pressure Main	the area? tenance Tank (0P5		Y X led fire protec	N etion	U	N/A	100 m 1000 m 100 m
iping is well sup	pported. No conce	erns identified reg	garding flood sour	ces.					
interactions that	that the area is from t could cause a fine the transformation of the transformation of transform	re in the area?	adverse seismic		Y X	N	U	N/A	
					Y	N	U	N/A	
interactions as equipment, and Very tall tempora	temporary instal	sekeeping practi llations (e.g., scat ted in area. Tem	ces, storage of por ffolding, lead shiel porary unrestraine judged OK due to	ding)? ed storage	X	N	I		
			conditions that cou ment in the area?	ıld	Y X	N	U]	
Comments (Add	itional pages may	be added as nec	essary)						
	det	Munat	2 2 2						
Evaluated by:	Eddie M. Gu	erra		Date:	8/26/2	2012	, '		
	En	Hll							
	Brian A. Luca	arelli		Date:	8/26/2	2012			

Sheet 111 of 139

Paul C. Rizzo Associates, Inc.



Status: 🕅 N U

Area Walk-By Checklist (AWC)

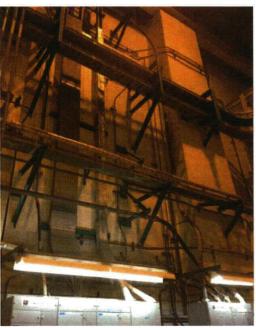
Area

EW-1

Floor El.

Bldg. EW

Other supporting or relevant documents and photos (if any):



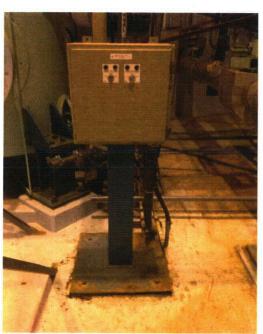
File Name: 1-59-1-1-05.jpeg Description: Raceways rigidly supported



File Name: 1-60-1-1-05.jpeg Description: General view of room



					Status:	(N	U	
Area Walk-By	Checklist (AWC)								
Area	EW-1	Floor El.	586	Bldg	FW				



File Name: 1-65-1-1-05.jpeg Description: View of 2H5I-P753B anchorage condition



File Name: 1-66-1-1-05.jpeg Description: Close up of anchorage condition



	~			
Status:	(\mathbf{Y})	N	U	

Area Walk-By Checklist (AWC)

Area

EW-1

586

Floor El.

Bldg.

EW



File Name: 1-67-1-1-05.jpeg Description: Scaffolding staging area



File Name: 1-69-1-1-05.jpeg Description: General view of room



Status: 🕅 N U

Area Walk-By Checklist (AWC)

Area

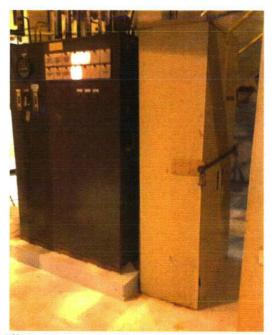
EW-1

Floor El. 586

Bldg. <u>EW</u>



File Name: 1-70-1-1-05.jpeg Description: Surface corrosion identified



File Name: 1-71-1-1-05.jpeg Description: Storage container identified next to H51-P010A

Paul ENGINE	C. Rizzo Associates	s, Inc.					S	heet 116 of	139
Area Walk-By Ch	necklist (AWC)				Status:	\odot	N	U	
Area	FH-2a	Floor El.	599	Bldg.	IB				
This checklist may space below each o	Completing Checkl be used to docume of the following que s provided at the en	ent the results o estions may be	used to record the	results of judg	ments and fir				
					Y	N	U	N/A	
1. Does anchorage	of equipment in the	e area appear to	be free of		X				
opening cabinet					Y	N	U	N/A	
2. Does anchorage degraded condit	of equipment in the	e area appear to	be free of signific	cant	X				
	osion observed in bo	ase plate, judge	d not to be a conc	ern.	Y	N	U	N/A	
3. Based on a visua	al inspection from t	he floor, do the	cable/conduit				U		
raceways and HV seismic condition conditions of cab	VAC ducting appeal ns (e.g., condition of ble trays appear to b <i>ntified to be well br</i>	r to be free of p f supports is ac e inside accept	ootentially adverse lequate and fill			101 - 21 101 - 21 101			
	hat the area is free on other equipment in			tial	Y X	N	U	N/A	
Related equipment 0G41A0002A	t on SWEL for this	area:							

Pau ENGIN	1 C. Rizzo Associat	tes, Inc.						S	heet 117 of 139
Area Walk-By C	Checklist (AWC)					Status:	Ŷ	N	U
Area	FH-2a	Floor El.	599		Bldg.	IB			
interactions tha Potential Flood S Cleaning Tank (1	cts that the area is free at could cause flood Sources in the Area L59A0002), and F No concerns identif	ding or spray in CRD Flush To uel Pool Coolin	the area? ank (1L59A00 g & Clean-U	001), CRD Ip Surge Ta		Y X	N	U	N/A
interactions that	that the area is free t could cause a fire <i>tified regarding fir</i>	in the area?	adverse seisn	nic		Y X	N	U	N/A
interactions as	that the area is free sociated with hous I temporary installa	ekeeping practi	ces, storage o	of portable	?	Y X	N	U	N/A
adversely affe	ed for and found no ct the safety function itional pages may b	ons of the equip	ment in the a			Y X	N	U	l
	ditte	White							
Evaluated by:	Eddie M. Guer	ra			Date:	8/26/	2012		

Entfll

Brian A. Lucarelli

Date:

8/26/2012



Status: 🕅 N

Area Walk-By Checklist (AWC)

Area

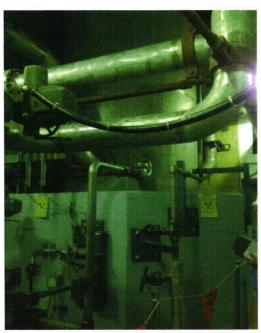
FH-2a

Floor El.

Bldg.

IB

Other supporting or relevant documents and photos (if any):



File Name: 1-59-2-1-22.jpeg Description: General view



File Name: 1-60-2-1-22.jpeg Description: Mild surface corrosion identified



Area Walk-By Checklist (AWC)

A	١	r	e	a	

FH-2a

Floor El.

599

Bldg. IB

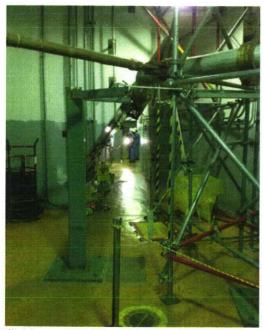
(Y)

Ν

Status:



File Name: 1-65-2-1-22.jpeg Description: General view



File Name: 1-66-2-1-22.jpeg Description: General view

	Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS									
Area Walk-By Checklis	t (AWC)			Status:	(N	U			
Area <u>FH-</u>	3a Floor El	620	Bldg.	FH						
This checklist may be use space below each of the f	uctions for Completing Checklist checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The below each of the following questions may be used to record the results of judgments and findings. cional space is provided at the end of this checklist for documenting other comments. es anchorage of equipment in the area appear to be free of the following (if visible without necessarily									
					N	U	N/A			
				X						
opening cabinets)? 2. Does anchorage of equ	2 60 a taga 13 ani so	. (24. "25.146)(23.	ан каралтан ана а 1 тап	Y X	N	U	N/A			
degraded conditions?				Y	N	U	N/A			
3. Based on a visual inspo raceways and HVAC d seismic conditions (e.g. conditions of cable tray <i>Piping and HVAC ducts i</i>	ucting appear to be free , condition of supports s appear to be inside ac	of potentially adverse is adequate and fill ceptable limits)?		X						
4. Does it appear that the interactions with other lighting)? Rod-hung space heater o have adequate flexibility	equipment in the area (bserved in area. Attacl	e.g., ceiling tiles and ned ~1 $1/2''$ diameter pipe		Y X	N	U	N/A			

Sheet 120 of 139

Related equipment on SWEL for this area: 1C11F0083 1P57A0003A



A noo Wally Dy Cl	hooklist (AWC)				Status:	\heartsuit	Ν	U
Area Walk-By Cl Area	<u>FH-3a</u>	Floor El.	620	Bldg.	FH			
Interaction Effect	ts	11 Your Doll on Williams			X	N		21/4
5. Does it appear t interactions that	hat the area is fre t could cause floo			ai e ai ae mer		N	U	N/A
Welded fire protect flood sources.	ction piping is rig	idly supported. 1	No concerns ide	entified regarding				
6. Does it appear t interactions that No concerns ident	could cause a fire	e in the area?	adverse seismic		Y X	N	U	N/A
	hat the area is fre ociated with hous temporary install	sekeeping praction	ces, storage of	portable	Y X	N	U	N/A
Temporary scaffol judged not to be a		quately braced.	Cart in the are	a not restrained, bu	ť			
8. Have you looke adversely affec	d for and found n t the safety functi				Y X	N	U	
Comments (Addit	ional pages may	be added as nece	essary)					
	ditte	Munat						
Evaluated by:	Eddie M. Gue	rra		Date:	8/26/20	012		
	En	4fl						
	Brian A. Luca	relli		Date:	8/26/20	012		



Status: 🕅 N

Area Walk-By Checklist (AWC)

Area

FH-3a

Floor El.

Bldg. FH

Other supporting or relevant documents and photos (if any):



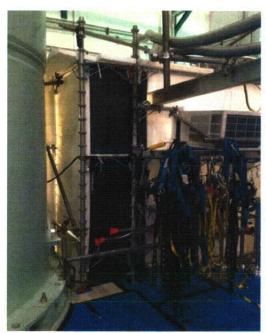
File Name: 1-59-2-1-17.jpeg Description: General view



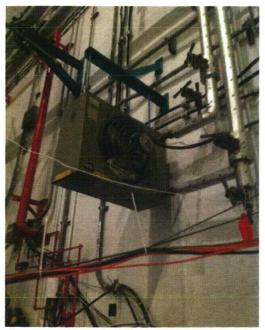
File Name: 1-65-2-1-17.jpeg Description: General view



					Status:	\odot	N	U	
Area Walk-B	By Checklist (AWC)								
Area	FH-3a	Floor El.	620	Bldg.	FH				



File Name: 1-67-2-1-17.jpeg Description: Scaffolding clamped to tank



File Name: 1-69-2-1-17.jpeg Description: Rod hung space heater

PCS	Paul C. Rizzo Associ	iates, Inc.					S	heet 124 of 13
					Status:	(N	U
	By Checklist (AWC)		10 al.a. <u>- ann an an an an an</u> an		985 (jina, su			
Area	IB-1a	Floor El.	574	Bldg.	IB			
This checklis space below	for Completing Cho t may be used to doct each of the following pace is provided at the	ument the results questions may b	e used to record th	he results of judg	gments and find			
					Y	N	U	N/A
	orage of equipment in				X		[
potentially opening ca	adverse seismic con binets)?	ditions (if visible	without necessari	lly				
					Y	N	U	N/A
2. Does anche degraded c	orage of equipment in conditions?	n the area appear	to be free of sign	ficant	X			
					Y	N	U	N/A
raceways a seismic cor	a visual inspection from nd HVAC ducting ap aditions (e.g., condition of cable trays appear	pear to be free of on of supports is a	potentially adver adequate and fill	se	X	- Quint - Agenti - Agenti	L	
					Y	N	U	N/A
	pear that the area is fr s with other equipme				X			
Related equip 0G41C0003A	oment on SWEL for t	his area:						
0G41C0003E	3							
0G41F0542A 0G41F0542B 0G41F0545A								
0G41F0545B 0G41F0546A								
0G41F0546E								

Sheet 125 of 139

DOD	Del C Die Antie I
EXX	Paul C. Rizzo Associates, Inc.
	ENGINEERS & CONSULTANTS

	Status:	(i)	Ν	U
Area Walk-By Checklist (AWC)				
Area <u>IB-1a</u> Floor El. <u>574</u> Bldg.	<u>IB</u>	izma orozanica		
nteraction Effects				
Door it appare that the area is free of notantially advance estimic	Y X	N		N/A
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?				
	Y	N	U	N/A
	Y	Ν	U	N/A
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	X			iner a second
No concerns identified regarding fire sources.				
	Y	N	U	N/A
7. Does it appear that the area is free of potentially adverse seismic	Y X	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)? Temporary scaffolding in area is well tied off.	Y X	<u>N</u>	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?

Comments (Additional pages may be added as necessary)

the MA 12

Evaluated by:

Eddie M. Guerra

Brian A. Lucarelli

Date:

Date:

8/26/2012

8/26/2012

X



Status: 🕅 N U

Area Walk-By Checklist (AWC)

Area

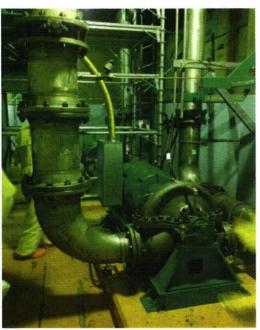
IB-1a

Floor El.

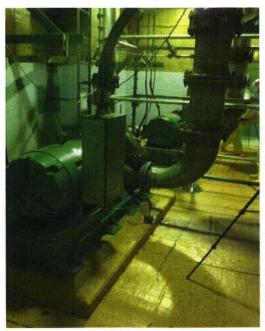
Bldg. IB

Other supporting or relevant documents and photos (if any):

574



File Name: 1-59-1-1-21.jpeg Description: General view



File Name: 1-60-1-1-21.jpeg Description: General view

	ul C. Rizzo Associat	tes, Inc.					5	Sheet 127 of 139
Area Walk-By	Checklist (AWC)				Status:	(N	U per liter to species dir. Sel spec
Area	<u>IB-2</u>	Floor El.	599	Bldg.	IB			
This checklist m space below eac	• Completing Check ay be used to docum h of the following q e is provided at the e	nent the results uestions may be	e used to record t	he results of judg	ments and fin			
	ge of equipment in t verse seismic condit ets)?			ily	Y X	N	U	N/A
2. Does anchora degraded cond	ge of equipment in t litions?	he area appear t	to be free of sign	ificant	Y X	N	U	N/A
raceways and I seismic conditi conditions of c <i>Cable trays id</i>	sual inspection from HVAC ducting appe ions (e.g., condition vable trays appear to dentified with long re- components in the pot	ar to be free of of supports is a be inside accep od hung support	potentially adver dequate and fill table limits)? <i>ts. This is judged</i>	d adequate as the		N	<u>U</u>	N/A
interactions w lighting)?	that the area is free ith other equipment area but not near ar	in the area (e.g.	., ceiling tiles and	1	Y X	<u>N</u>	U	N/A
Related equipme 1P57F0015A	ent on SWEL for this	s area:						

	I C. Rizzo Assoc	ciates, Inc.					8	Sheet 128 of 13
Area Walk-By (Checklist (AWC	.)			Status:	Ŷ	N	U
Area	IB-2	Floor El.	599	Bldg.	IB			
Interaction Effe	octs	and the second second second second			Y	N	- U	N/A
interactions the Potential Flood S Feed Tank (0G4)	at could cause fle Sources in the Ar 1D0004), and Bo	free of potentially ooding or spray in rea: Precoat Tank ody Feed Tank Mix ns identified regar	the area? (0G41A0001), F ser (0G41D0005)). Fire protection	X er (0G41D000.	3), Body		
					Y	N	U	N/A
interactions that Potential Fire So	at could cause a f sources in the Area	free of potentially a fire in the area? <i>a: Flammable Store area fire sources</i> .		PIB-218 and IB-	X			
interactions as	ssociated with ho	free of potentially busekeeping practi allations (e.g., scat	ces, storage of p		Y X	N	U	N/A
•		l no other seismic ctions of the equip			Y X	N	U]
Comments (Add	litional pages ma	ay be added as nec	essary)					
	di	to Minast	2					
Evaluated by:	Eddie M. G	uerra		Date:	8/26/2	012	- 1 ⁰	
	En	Afl						
	Brian A. Lu	carelli		Date:	8/26/2	012		



Aroa Walk-I	By Checklist (AWC)				Status:	(Y)	N	U	
Alca Walk-I	by Checklist (AWC)								
Area	IB-2	Floor El.	599	Bldg.	IB				

Other supporting or relevant documents and photos (if any):



File Name: 1-59-2-1-14.jpeg Description: General view



File Name: 1-60-2-1-14.jpeg Description: Maintenance equipment identified in the area



					Status:	Ŷ	N	U	
Area Walk-l	By Checklist (AWC)								
Area	IB-2	Floor El.	599	Bldg.	IB				



File Name: 1-65-2-1-14.jpeg Description: View of cable trays in the area

	aul C. Rizzo Associat GINEERS & CONSULTANTS	es, Inc.							Sheet 131 of 139
Area Walk-By	Checklist (AWC)					Status:	Y	\mathbb{N}	U
Area	<u>IB-2 (2)</u>	Floor El.	599	Bldg.	IB				
This checklist n space below eac	or Completing Check may be used to docum ch of the following q ce is provided at the e	nent the results uestions may be	used to record t	he results of judg	gments				
						Y	N	U	N/A
1. Does anchora	age of equipment in t	he area appear t	o be free of			X	19	U	
	dverse seismic condit			ily				<u></u>	-
						v	N	I	NI/A
2. Does anchora	age of equipment in t	he area appear t	o be free of sign	ificant	[$\frac{Y}{X}$	N	U	N/A
	isual inspection from					Y X	N	U	N/A
seismic condi conditions of	HVAC ducting appe tions (e.g., condition cable trays appear to the area were identif	of supports is a be inside accept	dequate and fill table limits)?	se					
	ar that the area is free with other equipment					Y X	N	U	N/A
Related equipm 1P43F0055	ent on SWEL for this	s area:							

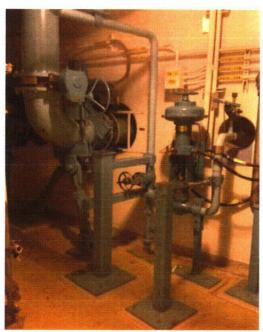
Area Walk-By C	hecklist (AWC)				Status:	Y	Ø	U
Area	<u>IB-2 (2)</u>	Floor El.	599	Bldg.	IB	ali kila II.I.I Hadamaadaani jiy		
nteraction Effec	ets				Y	N	U	N/A
interactions that	that the area is free t could cause floo tified regarding flo	ding or spray in			X	Alfer aller Syearabler 2	12	
					Y	N	U	N/A
interactions that Potential Fire Sou	that the area is free could cause a fire urces in the Area: identified regardi	e in the area? Flammable Stor		IB-218 and IB-	X			
					Y	N X	U	N/A
Scaffold structure caffold on the ne he valve or nearl address an unauth 8. Have you looke	temporary install identified as bein arby MOV judgea by pipe lines. How horized modificati	ng used as a supp I not a concern s ever, a condition fon to the plant for to other seismic o	port system for a ince it will not in a report (CR 201 for a chiller unit. conditions that co	Chiller Unit. Fal duce a significar 2-12373) was iss puld	nt damage to	N	U	
	ct the safety functi							
	ditte	Mhraft	L.					
Evaluated by:	Eddie M. Gue	rra		Date:	8/26/2	012		
	Eu	Hll						
	Brian A. Luca	HLU ırelli	1	Date:	8/26/2	012		
	Brian A. Luca	HU irelli	1	Date:	8/26/2	012		
	Brian A. Luca	HU relli	1	Date:	8/26/2	012		

Sheet 132 of 139

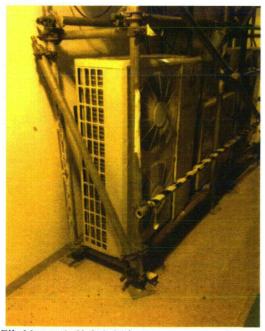


Area Walk-By C	Checklist (AWC)				Status:	Y	Ø	U
Area	<u>IB-2 (2)</u>	Floor El.	599	Bldg.	IB			

Other supporting or relevant documents and photos (if any):



File Name: 1-59-3-1-14.jpeg Description: General View



File Name: 1-60-3-1-14.jpeg Description: Scaffold structure for chiller unit

Area Walk-	-By Checklist (AWC)			St	atus:	(N	ι
Area	IB-3a	Floor El.	620	Bldg.	IB				
This checkli space below	s for Completing Chains ist may be used to doc each of the following space is provided at the	ument the results questions may b	e used to record t	he results of jud	dgments a			E	
y a kar sadaddaraaraa y		en de lakaren gerraamata gerrag sara era sen en	an na Sharakara na sana sanakara.				N	U	N/
	horage of equipment i y adverse seismic con cabinets)?			ily)				
	horage of equipment i conditions?	n the area appear	to be free of sigr	ificant			N	U	N/
raceways seismic co conditions	a visual inspection fro and HVAC ducting ap onditions (e.g., conditi s of cable trays appear r found to be rigidly so	opear to be free of on of supports is to be inside acce	f potentially adve adequate and fill	rse			N	U Tool to Section 200	N/
	ppear that the area is f ns with other equipme				>		N	U	N/

	ul C. Rizzo Assoc NEERS & CONSULTANTS	ciates, Inc.					S	heet 135 of 13
Area Walk-By	Checklist (AWC)			Status:	8	N	U
Area	<u>IB-3a</u>	Floor El.	620	Bldg.	IB			
Interaction Effe					Y	N	U	N/A
interactions th Potential Flood	at could cause flo Source in the Are				X protection pipi	ng is	in <u>the state</u>	liti și de
					Y	N	U	N/A
	that the area is finance of the second se	ree of potentially ire in the area?	adverse seismic		x			
Fire protection p fire sources.	piping is welded w	vith rigid support.	s. No concerns iden	ntified regardin	g			
					Y	N	U	N/A
interactions a equipment, an	ssociated with ho d temporary insta	allations (e.g., sca	adverse seismic ices, storage of port ffolding, lead shiel tial adverse conditi	ding)?	X			
			conditions that cou oment in the area?	ld	Y X	N	U	
Comments (Add	litional pages mag	y be added as nec	essary)					
	da	to Mhm It	2					
Evaluated by:	Eddie M. Gu	ierra		Date:	8/26/2	012	•	
	Fr	ALU						
	Brian A. Luc	carelli		Date:	8/26/2	012	.	



Area Walk-By Checklist (AWC)

Area

IB-3a

Floor El.

Bldg. IB

Other supporting or relevant documents and photos (if any):



File Name: 1-59-1-1-09.jpeg Description: General view



File Name: 1-60-1-1-09.jpeg Description: View of containers in the area

						Status:	(Ν	
Area Walk-By Ch	ecklist (AWC)								
Area	<u>IB-4</u>	Floor El.	665	Bld	g. <u>I</u>	В			
Instructions for Co	ompleting Chec	klist							
This checklist may space below each o	f the following q	uestions may be	e used to record t	he results of j	judgmei	nts and fi	items. The ndings.		
Additional space is	provided at the e		tist for documer	ting other co	mments				
1. Does anchorage of	of equinment in t	he area annear t	o he free of		Г	Y X	N	U	1
potentially adver- opening cabinets	se seismic condit			ily	L				1
						Y	N	U	
2. Does anchorage of degraded condition		he area appear t	to be free of sign	ificant		X			
						Y	N	U	
 Based on a visual raceways and HV seismic condition conditions of cabl 	AC ducting appe s (e.g., condition	ear to be free of of supports is a	potentially adver dequate and fill	se		X		1	
HVAC ducts in the o	area were identij	fied to be rigidly	supported.						
4. Does it appear the	at the area is free	of potentially a	idverse seismic s	natial	Г	Y X	N	U	Г
interactions with lighting)?				and the second	L				1
Related equipment of 1P42A0001B	on SWEL for thi	s area:							

トイ	Paul C. Rizzo Associates, Ir	ıc.
	ENGINEERS & CONSULTANTS	

Area Walk-By Cl	hecklist (AWC)				Statu	is: 🕅	N	U
Area	<u>IB-4</u>	Floor El.	665	Bldg.	IB		11. 11.11.11.11.11.11.11.11.11.11.11.11.	
Interaction Effec	ts	si Si si	n an		V	N	U	N/A
5. Does it appear t interactions that No concerns ident	t could cause floo	ding or spray in			Y X	<u>N</u>	I	
6. Does it appear t	hat the area is free	of notentially	dverse seismic		Y	N	U	N/A
	could cause a fire arces in the Area:	in the area? Flammable Stor	age Cabinets b		en e			
					Y	N	U	N/A
7. Does it appear t interactions ass	hat the area is free sociated with hous				X			
	temporary installa	ations (e.g., scaf	folding, lead sh					
		- 100.2-0.5	an - ann a - 1- maannaadh maria		Y	N	U	1
 8. Have you looke adversely affec 	t the safety functi				X		1	J
Comments (Addi	tional pages may	be added as neco	essary)					
	ditte	Munat						
Evaluated by:	Eddie M. Gue	rra		Date:	8/2	26/2012		
	Eu	4 LU						
	Brian A. Luca			Date:	8/2	26/2012	_	



IB-4

ecklist (AWC) Status:

N U

Area Walk-By Checklist (AWC)

Area

Floor El.

Bldg.

IB

Other supporting or relevant documents and photos (if any):



File Name: 1-59-1-1-11.jpeg Description: General view



File Name: 1-60-1-1-11.jpeg Description: View of HVAC duct wall penetration

APPENDIX D: COMPONENT LIST FOR ANCHORAGE CONFIGURATION CHECK

N

Component ID	References
0G41C0003A	Drawing 18_0019-00000_004
0G41C0003B	Drawing 18_0019-00000_004
0H51P0039	Document SP-594, page 3
0H51P0193	Document SP-594, page 3
0M23C0001A	Drawing 68-0112
0M23C0002A	Drawing 68-0112
0P47B0001A	Drawing 414-046, Auxiliary Plan "K"
0P47C0001A	Drawing 414-046, Foundation Plan "G"
0P49D0001A	Drawing 220027-00001_008
0R24S0020	Document "Class 1E MCC Seismic Qualification"
1C41A0003	Drawing 413-0237, Equipment Foundation "N"
1C41C0001A	Drawing 11-017
1E12B0001B	Drawing 210016-00000_005
1E12B0001D	Drawing 210016-00000_005
1E12C0002B	Drawing 210005-00000_004
1E21C0001	Drawing 190004-00000_005
1E22C0001	Drawing 200039-00001_000
1E22S0001	Drawing 417-0067, Foundation Plan "B"
1E22S0005	Calculation 40:71
1E51B0002	Drawing 25-0007-00002
1H51P0871	Document 1-6-7, page 170
1M39B0001B	Drawings 690157-00000_006, 480326- 00000_002 and 87254-026-54
1M39B0003	Drawing D-512-021
1M39B0006	Drawing D-512-021 and D-512-022
1M43C0001A	Detail D Drawing 517-0024
1M43C0002B	Detail D drawing 517-0024
1P42A0001B	Drawing 413-0237, Equipment Foundation "J"
1P42B0001B	Drawing 414-0046, Foundation Plan "E"
1P42C0001B	Drawing 414-0046, Foundation Plan "D"
1P45C0001B	Document SQ-146
1P57A0003A	Drawing 415-0107, Detail "A"
1R22S0006-E04	Drawing 058-0596-0000
1R24S0028	Document "Class 1E MCC Seismic Qualification"
1R24S0032	Document "Class 1E MCC Seismic Qualification"

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Component ID	References
1R25S0033	Document 1-6-7, page 186-187
1R42S0024	Document 1-6-7, page 92-96
1R43S0001B	Drawing 417-0066, Foundation Plan "A"
1R45C0002B	Drawing 417-0069, Foundation Plan "M"
1R46B0001A	Drawing 570009-0000_004
1R46B0002B	Drawing 570009-00000_004

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APPENDIX E: PERRY NUCLEAR POWER PLANT SEISMIC INFORMATION (EXCERPTS FROM UFSAR)

E-1

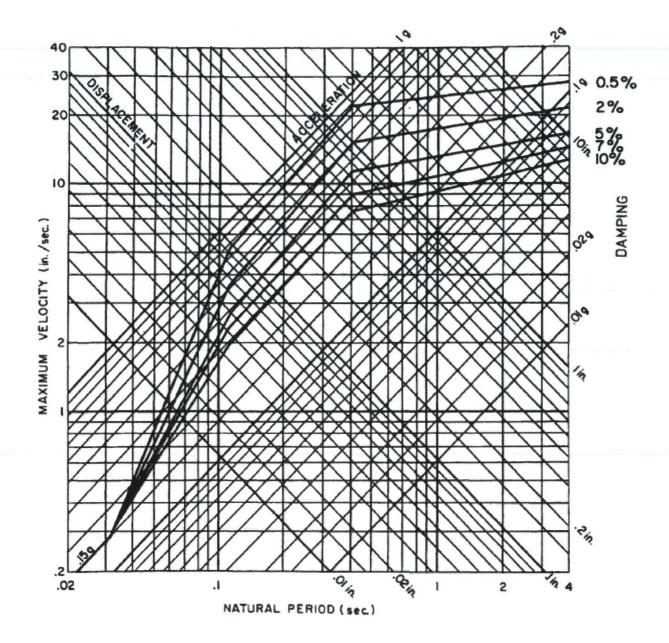
TABLE 3.7-2

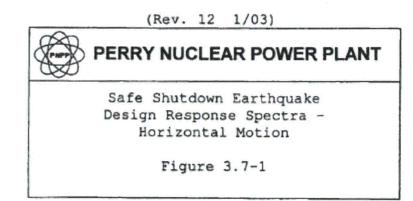
ι

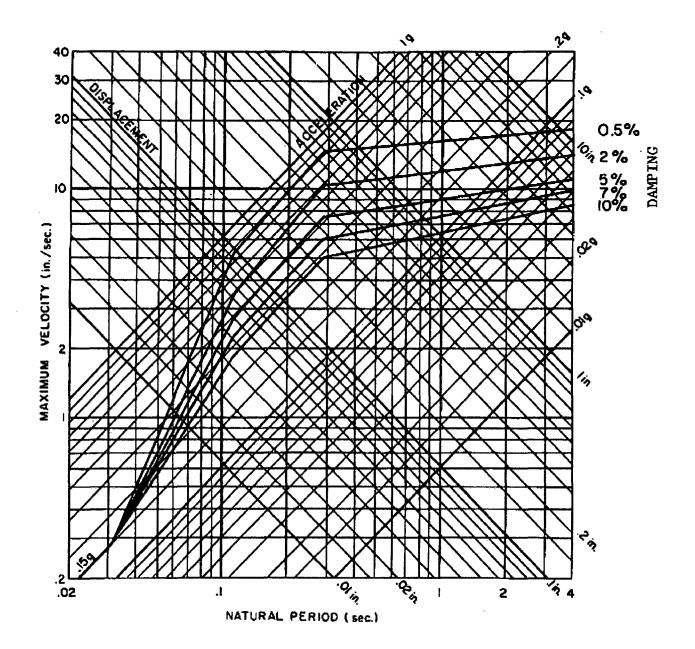
METHODS USED FOR SEISMIC ANALYSIS OF CATEGORY I STRUCTURES

Category I <u>Structure</u>	Modeling Techniques for Structures and Foundations	Damping	Method of Analysis
Reactor Building	Lumped masses and half space equivalent soil spring constant	Soil-structure interacted composite model damping	Time history analysis
Auxiliary Building	Same as above	Same as above	Same as above
Control Building	Same as above	Same as above	Same as above
Intermediate and Fuel Handling Buildings	Same as above	Same as above	Same as above
Radwaste Building	Same as above	Same as above	Same as above
Diesel Generator Building	Finite element	Soil-structure interacted composite model damping	Time history analysis
Emergency Service Water Pumphouse	Lumped masses and half space equivalent soil spring constant	Same as above	Same as above
Offgas Building	Finite element	Same as above	Same as above

Revision 12 January, 2003

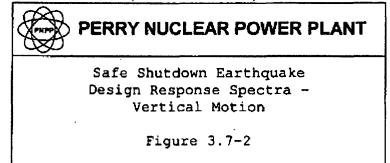






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APPENDIX F: PERRY IPEEE VULNERABILITIES

ITEM NUMBER	IPEEE IDENTIFIED SPATIAL VULNERABILITY		REFERENCE	RESOLUTION PRESCRIBED	CURRENT STATUS OF RESOLUTION
	1 Control room spatial issues:	Panel P872: one reference table and one drawing rack adjacent to panel	PNPP Potential Issue Form 98- 0036	relocate table and drawings- believe done by time of 98-0036	Not complete- CR 2012- 12331 written; items relocated
		Panel P871- adjacent tables	FCR 24871 for resolution	relocate tables- believe done by time of 98-0036	Complete
		P800: shelves	calc 36:01.3.2.5.16 rev 3	secured at top- inhibited from rolling	Complete
1		P870: phone stand	PNPP Potential Issue Form 98- 0036	98-0036 states phone stand is not on wheels as originally thought- no overturning- therefore no problem-leave as is	Complete
		P969, P904, P970: shelve units on top of table	calc 36:01.3.2.5.16 rev 3	shelves attached to partition wall to prevent overturning	Complete
		P870:Phone	PNPP Potential Issue Form 98- 0036	phone attached to stand to prevent falling	Complete
		P601: cart and monitor	PIFRA 98-0036- 002	used only during outages	Complete
	P619: stored monitor	PNPP Potential Issue Form 98- 0036 and calc 36:01.3.2.5.16 rev 3	stated not to be on wheels and should not overturn- used during outages	Complete	
		P619: cart	PNPP Potential Issue Form 98- 0036	cart removed	Complete
2	Maintenance Test Bench		calc 2.13.9 rev 0	lock wheels	proper bench storage verified
3	Operations Electrical Locker		FCR 024978 and PIFRA 98- 0036-003	move cart	CR 2012-12222 issued; cart moved 8/7/12
4	Switchgear trolleys		PIFRA 98-0036- 003	maintain trolleys in center of bus, hook hoist	trolleys verified in center of busses with hoist hooked in place

F-1

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Relays		,					
Evaluated for IPEEE							
Relays Chos	Relays Chosen from 1E22-S0001, HPCS Div. 1						
D	iesel Generator C	Control	·				
Relay No.	Relay Normal Status	Evaluation	Reason				
K1	De-Energized	Chatter Acceptable	Function is not required during the period of strong motion and chatter will not result in this function being available after strong shaking				
K2	De-Energized	Chatter Acceptable	Function is not required during the period of strong motion and chatter will not result in this function being available after strong shaking. If the DG is not initially operating, no effect, if it is operating, it may have voltage fluctuations				
К7	De-Energized	Chatter Acceptable	Function is not required during the period of strong motion and chatter will not result in this function being available after strong shaking				
K9	Energized	Operator Action Required	Operator Action required to reset K15 (Engine Trip Lock Out Relay) CR 2012-12331 written				
K10	Energized	Operator Action Required	Operator Action required to reset K15 (Engine Trip Lock Out Relay) CR 2012-12331 written				
K11	Energized	Operator Action Required	Operator Action required to reset K15 (Engine Trip Lock Out Relay) CR 2012-12331 written				
K12	Energized	Operator Action Required	Operator Action required to reset K15 (Engine Trip Lock Out Relay) CR 2012-12331 written				
K14	De-Energized	Operator Action Required	Operator Action required to reset EH13 (DG Breaker) CR 2012-12331 written				
K16	De-Energized	Chatter Acceptable	De-energized circuit or indication only, will return to normal after shaking				
K18	De-Energized	Chatter Acceptable	Function is not required during the period of strong motion and chatter will not result in this function being available after strong shaking				
K28	Energized	Chatter Acceptable	Indication only, will return to normal after shaking				
K35	De-Energized	Chatter Acceptable	De-energized circuit				
K40	Energized	Chatter Acceptable	Indication only, will return to normal after shaking				
K41	Energized	Chatter Acceptable	Indication only, will return to normal after shaking				
K42	Energized	Chatter Acceptable	Indication only, will return to normal after shaking				
K55	De-Energized	Chatter Acceptable	De-energized circuit				
<u> </u>							
Conclusion from IPEEE							
Chatter has no	Chatter has no significant impact to the HPCS diesel generator control circuits, thereby not affecting the						
	ability for the plant to safely shutdown. Chatter of the low ruggedness relays is acceptable because the functions of the relay contacts are not						
required during the period of strong motion and chatter will also not affect availability. Contacts associated with de-energized circuits AND/OR for indication only will return to a normal state after strong shaking subsides.							
	Any problematic relays requiring operator action are easily identifiable and can be manually reset.						
surg problematic relays requiring operator action are easily identifiable and can be manually reset.							