C-1

# C Seismic Walkdown Checklists (SWCs)

Table C-1 provides a description of each item, anchorage verification confirmation, a list of Area Walk-By Checklists associated with each item, comments, and page numbers of each Seismic Walkdown Checklist.

ID	DESCRIPTION	Anchorage Configuration Confirmed?	Area Walk- by	Comments	Page
	MCC 1A21 460V,3PH,3W,60HZ FOR TURBINE BUILDING	Y	9	Bus Outage	
1A21A- 460V	MCC 1A21A 460V,3P,3W,60HZ FOR REACTOR BUILDING	Y	8		C- 8
1A21B- 460V	MCC 1A21B 460V,3P,3W,60HZ FOR REACTOR BUILDING	Y	7	Bus Outage	
1A23- 460V	MCC 1A23 460V,3PH,3W,60HZ FOR REACTOR BUILDING	Y	9	Bus Outage	
1A2-460V	460V UNIT SUBSTATION 1A2 FOR REACTOR BUILDING	Ν	11	Equipment always energized. Opening of doors will introduce undue safety and operational hazard	
1A2-460V XF	USS 1A2-460V TRANSFORMER 4160-480V/277V 3PH 60HZ	Y	11		C- 11
1C	4160V BUS 1C SWITCHGEAR	N/A	28	Bus Outage	
305- 125\06-15	SCRAM ACCUMULATOR-H2O	N/A	13		C - 15
305- 125\06-19	SCRAM ACCUMULATOR-H2O	N/A	13		C - 18
305- 125\26-11	SCRAM ACCUMULATOR-H2O	N/A	8		C - 21
305- 125\26-19	SCRAM ACCUMULATOR-H2O	N/A	8		C - 24
6R	MAIN CONTROL RM PANEL 6R REACTOR PROTECTION CH.1	Y	27		C - 27
7R	MAIN CONTROL RM PANEL 7R REACTOR PROTECTION CH.2	Y	27		C - 29
BATTER Y BANK C	VITAL BANK 'C' STATION BATTERY (LEAD ACID)	Y	25		C - 31
BTCHG C1	'C' STATION BATTERY SOLID STATE STATIC CHARGER C1	Y	26		C - 37
CIP-3	CONTINUOUS INSTRUMENT PNL NO.3 208/120V,3PH,4W,60HZ	Y	12		C - 40

# Table C-1. Summary of Seismic Walkdown Checklists

	· · · · · · · · · · · · · · · · · · ·				
. ID	DESCRIPTION	Anchorage Configuration Confirmed?	Area Walk- by	Comments	Page
CV-305- 126\10-31	CRD INLET SCRAM VALVE (North)	N/A	13		Ċ - 44
CV-305- 126\10-39	CRD INLET SCRAM VALVE (North)	N/A	13		C - 47
CV-305- 126\30-03	CRD INLET SCRAM VALVE (South)	N/A	8		C - 50
CV-305- 126\30-07	CRD INLET SCRAM VALVE (South)	N/A	8		C - 53
CV-305- 127\06-15	CRD OUTLET SCRAM VALVE (North)	N/A	13	、 	C - 56
CV-305- 127\22-31	CRD OUTLET SCRAM VALVE (North)	N/A	13		C - 59
CV-305- 127\30-03	CRD OUTLET SCRAM VALVE (South)	N/A	8		C - 62
CV-305- 127\30-07	CRD OUTLET SCRAM VALVE (South)	N/A	8		C - 65
DC-C 125V	125VDC POWER PANEL DC-C CENTER 'C'	Y	26	Bus Outage	
DC-F	125VDC POWER PANEL DC-F	Y	12		C - 68
DG-1 BATTER Y BANK	DIESEL GENERATOR UNIT #1 STARTING BATTERIES	N	1		C - 72
DG-1 BATTER Y CHARGE R	DIESEL GENERATOR UNIT #1 BATTERY CHARGER	N	1		C - 75
DG-1 SWGR	DIESEL GENERATOR #1 UNIT SWITCHGEAR	Ý	1		C - 78
DPIS- IB0005A1	EMERGENCY CONDENSER NE01A HIGH SYSTEM FLOW SWITCH	Y	6		C - 81
DPT-6- IA0091B	FUEL ZONE LEVEL 'B' WIDE RANGE LEVEL TRANSMITTER	Y	6		C - 84
ER18A	CORE SPRAY/AUTO DEPRESS'N SYSTEM RELAY LOGIC PANEL	Y	12		C - 87
FN-56-4	"A" 480 SWGR RM SUPPLY FAN	Y	14		C - 90

ID	DESCRIPTION	Anchorage Configuration Confirmed?	Area Walk- by	Comments	Page
FN-732-1	USS 1A2-460V TRANSFORMER COOLING FAN	Y	16	,	C - 93
FN-732-2	USS 1A2-460V TRANSFORMER COOLING FAN	Y	16		C - 96
FN-732-3	USS 1A2-460V TRANSFORMER COOLING FAN	Y	16		C - 99
H-18-1C	AUGMENTED SPENT FUEL POOL HEAT EXCHANGER(NN02-C)	Y	21	SWEL 2	C - 102
H-21-1A	CONTAINMENT SPRAY SYS HEAT EXCHANGER 1-1	Y	13		C - 105
IP-4	120VAC INSTRUMENT PANEL 4 - 208/120V,3PH,4W	Y	12		C - 108
IT-4A	TRANSFORMER FROM MCC 1A2- 460V TO IP-4	Y	12		C - 112
LI-18-170	SKIMMER SURGE TANK'A'FUEL POOL LEVEL INDICATOR	N/A	20	SWEL 2	C - 116
LIS- RE0018A	REACTOR VESSEL LOW LEVEL	Y	15		C - 119
LIS- RE0018C	REACTOR VESSEL LOW LEVEL	Y	15		C - 121
LS-53B	SPENT FUEL POOL LOW WATER LEVEL SWITCH	Y	20	SWEL 2	C - 123
LS-862- 10B	LO-LO LEVEL (START NORMAL PUMP) ON TANK T-39-003	N/A	1		C - 126
LS-862- 10C	HI-HI LEVEL(PUMP CUT-OFF) ON TANK T-39-003	N/A	1		C - 129
LSP-1A2	LOCAL SHUTDOWN PANEL- USS 1A2 PUMP/BREAKER CONTROL	Y	16		C - 132
LT- RE0005B	REACTOR VESSEL LOW WATER LEVEL REACTOR SCRAM	Y	17		C - 135
M-39-1	EMERGENCY DIESEL GENERATOR #1	Y	1		C - 137
P-18-1B	SPENT FUEL POOL COOLING PUMP (NN01-B)	Y	21	SWEL 2	C - 140
P-18-1C	AUGMENTED SPENT FUEL POOL PUMP (NN01-C)	Y	21	SWEL 2	C - 143
P-20-1A	CORE SPRAY PUMP NZ01-A	Y	18		C - 146
P-20-1A (NZ01A)	CORE SPRAY PUMP "A" - SYS. I	Y	18		C - 149
P-20-2A	CORE SPRAY BOOSTER PUMP NZ03-A	Y	6		C - 152
P-3-3A	EMERGENCY SERVICE WATER PUMP 1-1 (52A)	Y	4		C - 155

ID	DESCRIPTION	Anchorage Configuration Confirmed?	Area Walk- by	Comments	Page
P-39-13	FUEL OIL PUMP TO DAY TANK T- 39-3	N	1		C - 158
P-39-17	DIESEL GENERATOR UNIT #1 ENGINE DRIVEN FUEL PUMP	N	1		C - 161
P-39-19	M-39-1 LEFT BEARING COOLING WATER PUMP	N/A	1		C - 164
P-39-25	AC TURBO LUBE OIL PUMP	N	2		C - 167
PI-18-82	AUGMENTED SFP COOLING PMP NN01-C DISCHARGE PRESSURE	N/A	21	SWEL 2	C - 170
	ACCUMULATORS GAS PRESSURE INDICATOR	N/A	13		C - 173
	ACCUMULATORS GAS PRESSURE INDICATOR	N/A	8		C - 176
PS-1	480/120VAC TRANSFORMER TO PROTECTION SYS PANELS 1&2	N	24		C - 179
PS-18-79	ASFP COOLING PUMP NN01-C LOW SUCTION PRESSURE TRIP	N/A	21	SWEL 2	C - 182
PS- IA0083A	EMRV NR108A HIGH PRESSURE SWITCH	Y	15		C - 185
PS- IA0083C	EMRV NR108C HIGH PRESSURE SWITCH	Y	17		C - 187
PS- RE0017A	LOW REACTOR PRESS. SWITCH READIES CORE SPRAY VALVES	Y	15		C - 189
PS- RV0046A	DRYWELL HIGH PRESSURE SWITCH-AUTO STARTS PUMPS	Y	6		C - 191
RK-1	REACTOR PROTECTION SYSTEM 1A,2A INSTRUMENT RACK A,B	Y	15		C - 194
RK-3	INSTRUMENT RACK RECIRC'N PUMP REACTOR PROTECTION	Y	6		C - 196
RK-411-1	MSIV'S SOLENOID AIR VALVE & EQUIPMENT MOUNTING RACK	N/A		Outage	
ROTARY INVERTE R\AC	AC GENERATOR FOR 120V AC SUPPLY FOR CIP-3	Y	5		C - 199
SO-305- 117\06-15	CHANNEL I SCRAM AIR PILOT SOLENOID VALVE(GROUP 1) (North)	N/A	13		C - 202
SO-305- 117\06-19	CHANNEL I SCRAM AIR PILOT SOLENOID VALVE(GROUP 2) (North)	N/A	13		C - 205

					<u> </u>
ID		Anchorage Configuration Confirmed?	Area Walk- by	Comments	Page
SO-305- 117\30-03	CHANNEL I SCRAM AIR PILOT SOLENOID VALVE(GROUP 2) (South)	N/A	8		C - 208
SO-305- 117\30-07	CHANNEL I SCRAM AIR PILOT SOLENOID VALVE(GROUP 3) (South)	N/A	8		C - 211
SO-305- 120\06-15	DIRECTIONAL FLOW CONTROL WITHDRAW SOLENOID VALVE (North)	N/A	13		C - 214
SO-305- 120\30-03	DIRECTIONAL FLOW CONTROL WITHDRAW SOLENOID VALVE (South)	Y	8		C - 217
	DIRECTIONAL FLOW CONTROL INSERT SOLENOID VALVE (North)	N/A	13		C - 220
SO-305- 121\06-19	DIRECTIONAL FLOW CONTROL INSERT SOLENOID VALVE (South)	N/A	13		C - 223
T-39-2	DIESEL GENERATOR FUEL OIL STORAGE TANK	Y	3		C - 226
T-39-3	DIESEL GENERATOR UNIT #1 FUEL OIL DAY TANK	N	1		C - 230
T-39-5	M-39-1 COOLING WATER TANK	N	1		C - 233
TI-18-267	ASFP HEAT EXCHANGER NN02C OUTLET TEMPERATURE	N	21	SWEL 2	C - 236
V-1-10	MAIN STEAM LINE'B' OUTLET ISOLATION VALVE(NS04-B)	N/A		Outage	۰.
V-1-106	MAIN STEAM LINE 'A' DRAIN VALVE	N/A		Outage	
V-1-160	SAFETY RELIEF VALVE NR28D (SOUTH HEADER)	N/A		Outage	
V-1-164	SAFETY RELIEF VALVE NR28H (NORTH HEADER)	N/A		Outage	
V-1-173	ELECTROMATIC RELIEF VALVE NR108-A(SOUTH HEADER)	N/A		Outage	
V-1-175	ELECTROMATIC RELIEF VALVE NR108-C(NORTH HEADER)	N/A		Outage	
V-1-177	ELECTROMATIC RELIEF VALVE NR108-E(SOUTH HEADER)	N/A		Outage	
V-15-120	SOUTH SCRAM DISCHARGE HDR VENT VALVE(NC53-A)	N/A	. 8		C - 239
V-15-133	NORTH SCRAM DISCHG VOLUME DRAIN VALVE(NC52-A)	N/A	13		C - 242
V-16-1	CU INLET ISOLATION VALVE	N/A		Outage	

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ID	DESCRIPTION	Anchorage Configuration Confirmed?	Area Walk- by	Comments	Page
V-1-7	MAIN STEAM LINE'A' OUTLET ISOLATION VALVE(NS03-A)	N/A		Outage	
V-17-1	SDC LOOP 'A' PUMP SUCTION	N/A	22		C - 24
V-17-212	SDC LOOP'A' OUTLET HEADER VENT VALVE	N/Á	23		C - 248
V-18-112	ASFP COOLING PUMP NN01-D CASING VENT VALVE	N/A	21	SWEL 2	C - 25
V-18- 1266	FUEL POOL MAKEUP ISOLATION	N/A	21	SWEL 2	C - 254
V-18-19	AUGMENTED FUEL POOL COOLING OUTLET VALVE	N/A	21	SWEL 2	C - 25
V-18-2	AUGMENTED SPENT FUEL POOL SYSTEM INLET VALVE	N/A	21	SWEL 2	C - 26
V-18-3	SFP COOLING PUMP (NN01-A) SUCTION ISOLATION VALVE	N/A	21	SWEL 2	C - 26
V-18-47	DRAIN FROM REACTOR WELL BACK TO FUEL POOL PUMPS	N/A	21	SWEL 2	C - 26
V-18-74	AUGMENTE FUEL POOL CLG PUMP NN01-D DISCHARGE VALVE	N/A	21	SWEL 2	C - 26
V-18-80	PI-18-88 ISOLATION VALVE	N/A	21	SWEL 2	C - 27
V-18-81	PS-18-0080 ISOLATION ROOT VALVE	N/A	21	SWEL 2	C - 27
V-18-88	AUGMENTED FPC SYSTEM VENT VALVE	N/A	21	SWEL 2	C - 27
V-18-92	AUGMENTED FUEL POOL CLG THROTTLE VALVE	N/A	21	SWEL 2	C - 28
V-20-12	CORE SPRAY PUMP DISCHARGE VALVE(SYSTEM I)	N/A	6		C - 28
V-20-15	"A" CONTAINMENT ISO. VALVE - SYS. I	N/A	6		C - 28
V-20-3	CORE SPRAY PUMP "A" SUCTION VALVE FROM TORUS	N/A	18		C - 29
V-21-75	CONTAINMENT ISOLATION FOR TORUS WATER CLEAN-UP	N/A	19		C - 29
V-39-109	EDG1 PRIMING PUMP SUCTION VALVE	N	1		C - 29
V-39-110	EDG1 PRIMING PUMP DISCHARGE VALVE	N	. 1		C - 29
V-39-2	ISOLATION VALVE FOR TANK T- 39-002 OUTLET	N/A	3		C - 30
VACP-1	120V VITAL AC POWER PANEL 208/120V,3PH,4W,60HZ	Y	10		C - 30
VACP-1 XF	120V VITAL AC POWER PANEL TRANSFORMER 480/208/120V	Y	10		C - 30

Status: Y N U

Seismic	Walkdown	Checklist	(SWC)
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	Equipment ID No.: 1A21A-460V	
	Equipment Class: (1) Motor Control Centers	
	Equipment Description: MCC 1A21A 460V,3P,3W,60HZ FOR REACTOR BUILDING	
	Project: Oyster Creek SWEL	
Locatio	on (Bldg, Elev, Room/Area): RB, 23.00 ft, 08	
	Manufacturer/Model:	
Instruc	ctions for Completing Checklist	
SWEL	hecklist may be used to document the results of the Seismic Walkdown of an item of equipment on t . The space below each of the following questions may be used to record the results of judgments is . . Additional space is provided at the end of this checklist for documenting other comments.	
<u>Ancho</u>	brage	
1.	Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Yes
2.	Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3.	Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4.	Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
5.	Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	Yes
6.	Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

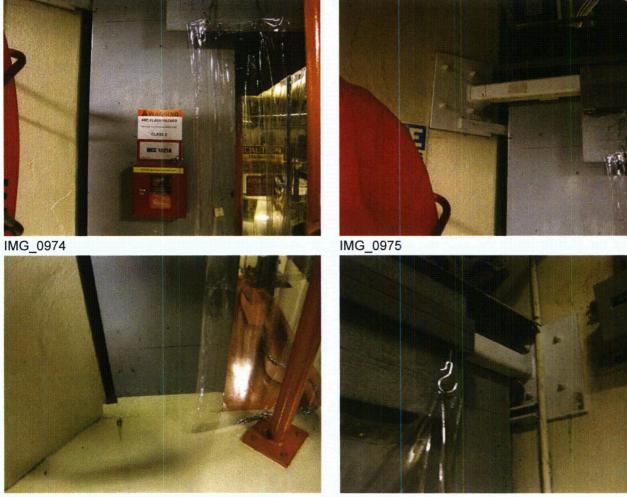
Seism	ic Walkdown Checklist	(SWC)		Status: Y N U
· .	Equipment ID No.:			
	Equipment Class:			
	Equipment Description:	MCC 1A21A 460V,3P,3W,60HZ	FOR REACTOR BUILD	DING
Interac	ction Effects	i and and a second s		
7.	Are soft targets free fro	m impact by nearby equipment o	structures?	Yes
8.		nt, distribution systems, ceiling tile t likely to collapse onto the equip		Yes
9.	Do attached lines have	adequate flexibility to avoid dama	age?	Yes
, 10.		ismic interaction evaluations, is e mic interaction effects?	quipment free of	Yes
		d found no adverse seismic cond ety functions of the equipment?	itions that could	Yes
	· · · · ·			
1A2A-	al Anchorage was compl 460V-MCC	eted during online walk down. Ex	_	cumented in SQ-OC-
Evalua	ated by:	Mark S. Etre Mark S. Etre Seth W. Ba	Date:	10/10/2012
	So	Bur Seth W. Ba	ker	10/10/2012

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1A21A-460V
Equipment Class:	(1) Motor Control Centers
Equipment Description:	MCC 1A21A 460V,3P,3W,60HZ FOR REACTOR BUILDING

#### **Photos**



IMG\_0978

12Q0108.80-R-001 Correspondence No.: RS Shee	I, Rev. 1
Sciemic Welkdown Checklist (SWC)	]N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1A2-460V XF	
Equipment Class: (4) Transformers	
Equipment Description: USS 1A2-460V TRANSFORMER 4160-480V/277V 3PH 60HZ	
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area): RB, 23.00 ft, 11	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on SWEL. The space below each of the following questions may be used to record the results of judgments findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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	Equipment ID No.	: 1A2-460V XF		
	Equipment Class	: (4) Transformers		
	Equipment Description	USS 1A2-460V TRANSFORMER 41	160-480V/277V 3PH	1 60HZ
ntera	ction Effects			
7.	Are soft targets free f	rom impact by nearby equipment or stru	uctures?	Ye
8.		ent, distribution systems, ceiling tiles an not likely to collapse onto the equipmen		Ye
9.	Do attached lines hav	ve adequate flexibility to avoid damage?	?	Ye
10.		seismic interaction evaluations, is equip eismic interaction effects?	oment free of	Ye
<u>) 2ther</u> 11.	Adverse Conditions Have you looked for	and found no adverse seismic condition	ns that could	Ye
	adversely affect the s	afety functions of the equipment?		
Extern JSS F Nearb	Rev 0 ly masonry block Wall is	pleted during online walk down. See Se s braced. Calculation C-1302X-322C-A0 address NRC IE Bulletin 80-11.		
_	<b>A</b>	1185		. :
Evalua	ated by:	Mark S. Etre Mark S. Etre Seth W. Baker	Date:	10/10/2012

Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1A2-460V XF
Equipment Class:	(4) Transformers
Equipment Description:	USS 1A2-460V TRANSFORMER 4160-480V/277V 3PH 60HZ

## Photos





IMG\_0859

IMG\_0864



IMG\_0869

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1A2-460V XF

Equipment Class: (4) Transformers

Equipment Description: USS 1A2-460V TRANSFORMER 4160-480V/277V 3PH 60HZ

**SQUG SEWS** 

EBASCO SERVICES INCORPORATED Two World Trade Center, New York, N.Y. 10048

April 29, 1981

GPU Services Incorporated Attention: Mr. Leon Caribian 100 Interpace Parkway Parsippany, NJ 07054

Dear Leon:

Re: OYSTER CREEK NUCLEAR STATION FINAL SUBMITTAL OF MASONRY WALL EVALUATION CALCULATION BOOKS

I am sending to you together with this letter, 20 volumes of calculation books and 11 volumes of computer output. This will mark the end of our involvement for the re-evaluation of the Safety-Related Concrete Masonry Walls as required by NRC IE Bulletin 80-11.

Should you have any questions regarding the calculations and sketches, please do not hestitate to call. We will be glad to help.

Very truly yours,

Oder by an Ë E Odar Assistant Chief Civil Engineer

GW:dl

cc: K D Chiu G Wu

C1302X322CA06 VOL 1, 19810427, REEVALUATION OF CONCRETE MASONRY WALL NRC IE BULLETIN 80-11 GENERAL

		Status: Y N U
Seismic Walkdown Checklist (	SWC)	
Equipment ID No.:	305-125\06-15	
Equipment Class:	(21) Tanks and Heat Exchangers	
Equipment Description:	SCRAM ACCUMULATOR-H2O	•
Projec	t: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area	i): RB, 23.00 ft, 13	
Manufacturer/Mode	əl;	
Instructions for Completing Ch		
SWEL. The space below each o	ocument the results of the Seismic Walkdown of an item o of the following questions may be used to record the resul- vided at the end of this checklist for documenting other co	ts of judgments and
Anchorage		
<ol> <li>Is anchorage configuration of SWEL items requiring</li> </ol>	on verification required (i.e., is the item one of the 50% such verification)?	No
2. Is the anchorage free of	bent, broken, missing or loose hardware?	Not Applicable
2. Is the unchorage nee of	bent, broken, missing of loose hardware :	Not Applicable
3. Is the anchorage free of	corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of	visible cracks in the concrete near the anchors?	Not Applicable
	uration consistent with plant documentation? (Note: es if the item is one of the 50% for which an anchorage is required.)	Not Applicable
<ol><li>Based on the above anc potentially adverse seisn</li></ol>	horage evaluations, is the anchorage free of nic conditions?	Yes

Seismic Walkdown Checklist	(SWC)	Status: Y N U	
Equipment ID No.:	(21) Tanks and Heat Exchangers	. <u></u>	
	SCRAM ACCUMULATOR-H2O		
Interaction Effects	SCRAM ACCOMOLATOR-120		
	om impact by nearby equipment or structures?	Yes	
	ent, distribution systems, ceiling tiles and lighting, and	Yes	
	ot likely to collapse onto the equipment?	Yes	
	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes	
Other Adverse Conditions			
-	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes	
Comments			
See Calculation C-1302-225-E	310-049, Rev. 0		
See Calculation C-1302-225-E	310-050, Rev. 0		
See drawing BR 4059, sheet 3	<b>i</b>		
Equipment was verified as consistent with SQ-OC-HCU-305-XX-XX, Rev. 1			

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Seismic Walkdow	n Checklist	(SWC)		Status: Y N U
Equipm	ent ID No.:	305-125\06-15		
Equipr	nent Class:	(21) Tanks and Heat Exchangers		
Equipment D	Description:	SCRAM ACCUMULATOR-H2O		
Evaluated by:	Man/	Mark Etre Mark Etre Bur Seth Baker	Date:	10/15/12

# **Photos**



IMG\_0756

Status: Y Seismic Walkdown Checklist (SWC)	]N U
Equipment ID No.: 305-125\06-19 Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: SCRAM ACCUMULATOR-H2O	
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area): RB, 23.00 ft, 13	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on SWEL. The space below each of the following questions may be used to record the results of judgments findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	N.,
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	No
2. Is the anchorage free of bent, broken, missing or loose hardware? Not App	olicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not App	olicable
4. Is the anchorage free of visible cracks in the concrete near the anchors? Not App	olicable
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: Not App This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	olicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 305-125\06-19	
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: SCRAM ACCUMULATOR-H2O	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, a masonry block walls not likely to collapse onto the equipment?	ind Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
Comments	
Calculation C-1302-225-E310-049, Rev. 0	
See Calculation C-1302-225-E310-050, Rev. 0	
See drawing BR 4059, sheet 3	
Equipment was verified as consistent with SQ-OC-HCU-305-XX-XX, Rev. 1	

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				Status: Y N U
Seismic Walkdov	vn Checklist	(SWC)		
Equipr	ment ID No.:	305-125\06-19		
Equip	ment Class:	(21) Tanks and Heat Exchangers		
Equipment	Description:	SCRAM ACCUMULATOR-H2O		
Evaluated by:	Man	S The Mark Etre	Date:	10/15/12
	So	Ben Seth Baker		10/15/12

**Photos** 



IMG\_0749

Seismic Walkdown Checklist (		Status: Y N U
Equipment ID No.:		
	(21) Tanks and Heat Exchangers	
Equipment Description:	SCRAM ACCUMULATOR-H2O	
Projec	t: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area	): _RB, 23.00 ft, 08	
Manufacturer/Mode	d:	
SWEL. The space below each o	cument the results of the Seismic Walkdown of an item f the following questions may be used to record the resu	Ilts of judgments and
Anchorage	vided at the end of this checklist for documenting other of	comments.
	on verification required (i.e., is the item one of the 50% such verification)?	No
2. Is the anchorage free of	bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of	corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of	visible cracks in the concrete near the anchors?	Not Applicable
	rration consistent with plant documentation? (Note: es if the item is one of the 50% for which an anchorage is required.)	Not Applicable
<ol> <li>Based on the above anc potentially adverse seisn</li> </ol>	horage evaluations, is the anchorage free of nic conditions?	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 305-125\26-11	
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: SCRAM ACCUMULATOR-H2O	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
<u>Comments</u>	
Accumulator was missing label.	
See Calculation C-1302-225-E310-049, Rev. 0	
See Calculation C-1302-225-E310-050, Rev. 0	
See drawing BR 4059, sheet 3	
Equipment was verified as consistent with SQ-OC-HCU-305-XX-XX, Rev. 1	

				Status: Y N U
Seismic Walkdov	wn Checklist	(SWC)		
Equip	ment ID No.:	305-125\26-11		
Equipment Class:		(21) Tanks and Heat Exchangers		
Equipment	Description:	SCRAM ACCUMULATOR-H2O		
Evaluated by:	Man	S The Mark Etre	Date:	10/15/12
	Sa	Ber Seth Baker		10/15/12

**Photos** 



IMG\_0783

IMG\_0784

Seismic Walkdown Checklist (S	WC)	Status: Y N U
Equipment ID No.: 3	05-125\26-19	
· · · · · · · · · · · · · · · · · · ·	21) Tanks and Heat Exchangers	
Equipment Description: S	CRAM ACCUMULATOR-H2O	
Project	: Oyster Creek SWEL	in a second the difference of the second terms of
Location (Bldg, Elev, Room/Area)	RB, 23.00 ft, 08	
Manufacturer/Model		
Instructions for Completing Che	ecklist	
SWEL. The space below each of	ument the results of the Seismic Walkdown of an item o the following questions may be used to record the result ided at the end of this checklist for documenting other co	ts of judgments and
Anchorage		
<ol> <li>Is anchorage configuratio of SWEL items requiring s</li> </ol>	n verification required (i.e., is the item one of the 50% such verification)?	No
2. Is the anchorage free of b	ent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of c	orrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of v	isible cracks in the concrete near the anchors?	Not Applicable
	ation consistent with plant documentation? (Note: s if the item is one of the 50% for which an anchorage s required.)	Not Applicable
<ol><li>Based on the above anch potentially adverse seism</li></ol>	orage evaluations, is the anchorage free of ic conditions?	Yes

		12Q0108.80-R-001, Rev. 1
· · · · · · · · · · · · · · · · · · ·		Correspondence No.: RS-12-177 Sheet 2 of 3
Seismic Walkdown Checklist	(\$)M(C)	Status: Y N U
Seismic Walkuown Checkiist	(SWC)	
Equipment ID No.:	305-125\26-19	
Equipment Class:	(21) Tanks and Heat Exchangers	
Equipment Description:	SCRAM ACCUMULATOR-H2O	
Interaction Effects		
7. Are soft targets free fro	m impact by nearby equipment or structures?	Yes
	· · · · ·	
	nt, distribution systems, ceiling tiles and lighting, an	d Yes
masonry block walls no	ot likely to collapse onto the equipment?	
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
10. Based on the above se	eismic interaction evaluations, is equipment free of	Yes
	smic interaction effects?	
Other Adverse Conditions 11. Have you looked for ar	ad found no advorse seismic conditions that could	Yes
•	nd found no adverse seismic conditions that could fety functions of the equipment?	103
	· · · · · · · · · · · · · · · · · · ·	
<u>Comments</u>		
See Calculation C-1302-225-E	310-049, Rev. 0	
See Calculation C-1302-225-E	310-050, Rev. 0	
See drawing BR 4059, sheet 3		
Equipment was verified as con	sistent with SQ-OC-HCU-305-XX-XX, Rev. 1	

.... .

				Status: Y N U
Seismic Walkdov	vn Checklist	(SWC)		
Equipment ID No.:		305-125\26-19		
Equipment Class:		(21) Tanks and Heat Exchangers		
Equipment	Description:	SCRAM ACCUMULATOR-H2O		
Evaluated by:	Man	S Ever Mark Etre	Date:	10/15/12
	So	Ben Seth Baker		10/15/12

Photos



	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 6R	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: MAIN CONTROL RM PANEL 6R REACTOR PROTECTION	N CH.1
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area):TB, 46.00 ft, 27	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of e SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other com	of judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Soismic Walkdow	n Checklist (SWC)	s: YNU
	nent ID No.: 6R	
	nent Class: (20) Instrumentation and Control Panels and Cabinets	
T <sub>P</sub>		· .
Equipment D		
	rgets free from impact by nearby equipment or structures?	Yes
	ead equipment, distribution systems, ceiling tiles and lighting, and lock walls not likely to collapse onto the equipment?	Yes
9. Do attache	ed lines have adequate flexibility to avoid damage?	Yes
	the above seismic interaction evaluations, is equipment free of adverse seismic interaction effects?	Yes
	onditions looked for and found no adverse seismic conditions that could affect the safety functions of the equipment?	Yes
<u>Comments</u>		
Able to verify acces walkdown.	ev 03 ssible anchorage in (inside) back of cabinet. Interior inspection completed during	online
Evaluated by:	Mark Etre Date: 10/10/12          Mark Etre       Date: 10/10/12         JunBar       Seth Baker       10/10/12	- · ·
	Sun Bur Seth Baker 10/10/12	

Status:	Y	Ν	U
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	Equipment ID No.: 7R	
	Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
I	Equipment Description: MAIN CONTROL RM PANEL 7R REACTOR PROTECTION CH.2	
	Project: Oyster Creek SWEL	
Locatio	on (Bldg, Elev, Room/Area): TB, 46.00 ft, 27	
	Manufacturer/Model:	
Instruc	ctions for Completing Checklist	
SWEL.	necklist may be used to document the results of the Seismic Walkdown of an item of equipment on th . The space below each of the following questions may be used to record the results of judgments and s. Additional space is provided at the end of this checklist for documenting other comments.	
Ancho	prage	
1.	Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Yes
2.	Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3.	Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4.	Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
5.	Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	Yes
6.	Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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/alkdown Checklist Equipment ID No.: Equipment Class: ipment Description: <u>n Effects</u> e soft targets free fro e overhead equipme asonry block walls no	7R (20) Instrur MAIN CON m impact by nt, distributio	ITROL RM nearby eq	PANEL 7R RE uipment or stru , ceiling tiles an	ACTOR PROT ctures? d lighting, and		H.2	Yes
Equipment Class: ipment Description: <u>n Effects</u> e soft targets free fro e overhead equipme asonry block walls no	(20) Instrur MAIN CON m impact by nt, distributio	ITROL RM nearby eq	PANEL 7R RE uipment or stru , ceiling tiles an	ACTOR PROT ctures? d lighting, and		H.2	
ipment Description: <u>n Effects</u> e soft targets free fro e overhead equipme asonry block walls no	MAIN CON m impact by nt, distributio	ITROL RM nearby eq	PANEL 7R RE uipment or stru , ceiling tiles an	ACTOR PROT ctures? d lighting, and		H.2	
n Effects e soft targets free fro e overhead equipme asonry block walls no	m impact by nt, distributic	nearby eq on systems	uipment or stru , ceiling tiles an	ctures? d lighting, and		11.4	
e soft targets free fro e overhead equipme asonry block walls no	nt, distributic	on systems	, ceiling tiles an	d lighting, and			
asonry block walls no		-					Yes
asonry block walls no		-					Yes
attached lines have							100
	adequate fle	exibility to a	avoid damage?				Yes
ised on the above se tentially adverse seis				ment free of			Yes
•				s that could			Yes
<u>s</u>							
C-7R Rev 02							
ify accessible ancho	rage in (insid	de) back of	cabinet. Interio	r inspection co	mpleted du	ring online	
Manf	& End	Mark	Etre	Da	ite: 10/10	//12	
So	nB	m s	Seth Baker		10/10	)/12	
	ve you looked for an versely affect the sa <u>s</u> C-7R Rev 02 ify accessible ancho	ive you looked for and found no a versely affect the safety function <u>s</u> C-7R Rev 02 ify accessible anchorage in (insid	by: Mark	eve you looked for and found no adverse seismic conditions versely affect the safety functions of the equipment? <u>S</u> C-7R Rev 02 ify accessible anchorage in (inside) back of cabinet. Interio	by: Mark Etre Da	by: Mark Etre Date: 10/10	by: Mark Etre Date: 10/10/12

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Seismic Walkdown Checklist	(SWC) Stat	us: YNU
Equipment ID No.:	BATTERY BANK C	
Equipment Class:	(15) Batteries on Racks	
Equipment Description:	VITAL BANK 'C' STATION BATTERY (LEAD ACID)	
Proje	ect: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Are	ea): TB, 23.00 ft, 25	
Manufacturer/Mod	lei:	
Instructions for Completing C	Checklist	
SWEL. The space below each	locument the results of the Seismic Walkdown of an item of equipn of the following questions may be used to record the results of jud ovided at the end of this checklist for documenting other comment	gments and
<u>Anchorage</u>		
<ol> <li>Is anchorage configuration of SWEL items requirin</li> </ol>	tion verification required (i.e., is the item one of the 50% g such verification)?	Yes
2. Is the anchorage free o	f bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free o	f corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free o	of visible cracks in the concrete near the anchors?	Yes
	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Yes
<ol> <li>Based on the above an potentially adverse seis</li> </ol>	nchorage evaluations, is the anchorage free of smic conditions?	Yes

Seism	ic Walkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:	BATTERY BANK C	
	· · · •	(15) Batteries on Racks	
	Equipment Description:	VITAL BANK 'C' STATION BATTERY (LEAD ACID)	· · · · · · · · · · · · · · · · · · ·
Intera	ction Effects		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
8.	• • •	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment?	Yes
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.		ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
<u>Other</u>	Adverse Conditions		
	•	d found no adverse seismic conditions that could fety functions of the equipment?	Yes
Comm See S	<u>1ents</u> Q-OC-BATTERY BANK	C Rev 01	

Tech Eval A2057072-08 Rev 0, concluded that the 0.5" gap on the end rails is acceptable.

	Man S End		40/40/40
Evaluated by:	Mark Etre	Date:	10/10/12
	Sun Ben Seth Baker		10/10/12

Status: Y	N U
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### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	BATTERY BANK C
Equipment Class:	(15) Batteries on Racks
Equipment Description:	VITAL BANK 'C' STATION BATTERY (LEAD ACID)

### **Photos**



IMG\_1052



IMG\_1055



IMG\_1062



IMG\_1053



IMG\_1058

Status:	Y	N	U
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# Seismic Walkdown Checklist (SWC)

Equipment ID No.: BATTERY BANK C

Equipment Class: (15) Batteries on Racks

Equipment Description: VITAL BANK 'C' STATION BATTERY (LEAD ACID)

#### SQUG SEWS

.

	PAGE 000
B	C R Printout
ECR NUMBER: _OC _04-00923 _000_	ECR TYPE: IEC
	PRINT DATE/TIME: <u>11/04/04</u> <u>06:11</u> REQUIRED DATE: <u>11/10/04</u>
ASSIGNED INDV: <u>BERFERMAN, MARVIN</u> INITIATOR: <u>KALENAK</u>	ECR STATUS: <u>APPVD</u>
REQUEST ORG: <u>OWSP</u> A/R NO: <u>A2008592</u>	BCR STATUS: <u>APPVD</u> STATUS DATE: <u>11/04/04</u> INIT. DATE: <u>11/03/04</u>
PROJECT NO:	A/R STATUS: ASIGND
A/R SUBJECT: 204 12642: REPLACEME	ENT OF "C" STATION BATTERIES
A. IDENTIFICATION:	
SYSTEM: 735 COMP ID: OC 1	1 735 E BT C STATION BATTERIES
INIT OPER: QA CLASS: TECH SPEC: REOD IN MODES:	ES: <u>3</u> ID/DATE: <u>MPB0</u> <u>11/03/04</u>
PAGES ATTACHED: Y NO. OF PAGE	S: <u>3</u> ID/DATE: <u>MPB0 11/03/04</u>
PROBLEM DESCRIPTION and PROPOSE	D DISPOSITION:
INSTALLED STATION "C" BATTERIES, HAVE BEEN REPLACED BY GNB MODEL AND REPLACEMENT BATTERIES WERE F LOGISTICS INC. (NLI). THIS IEC ENCES IN THE TWO MODELS USING TH PROVIDED BY NLI (CALC. # ERC-53,	NCN-17. THE ORIGINAL FURNISHED BY NUCLEAR WILL RECONCILE DIFFER- HE REPLACEMENT EVALUATION
B. EVALUATION:	
50.59 REVIEW REQD: <u>N</u> ORIG 50.5	59 REVIEW AFFECTED: 50.59 SE REQD:
REPORTABLE: <u>N</u> DATE/TIME: STATION PROC/PROGRAM REVIEW COMP	PLT: CAUSE: I
FINAL OPERABILITY: COMP:	PLT: CAUSE: _I : SYSTEM: PLANT: SSV DATE/TIME:
SCHED CODE/WINDW:	
ADVANCED WORK AUTH: FINAL D	DISP: INTERIM DISP:
APPROVED DISPOSITION:	
DESCRIPTION AND SCOPE	
NOTE1: IT IS UNACCEPTABLE TO PRO UATES CHANGES TO FIT/FORM/FUNCTI PARAMETERS OUTSIDE OF DESIGN TOI SOLUTIONS. THESE CHANGES INCLUE COMPLEX PIPE ROUTING, SEISMIC CA PROCESS PARAMETERS, POWER REQUIR ING, MONITORING, AND OPERATIONS CRITERIA. THESE CHANGES WILL BE	ION AND PROCESS/LOGIC/ LERANCES OR PRE-ENGINEERED DE, BUT ARE NOT LIMITED TO ALCULATIONS, SETPOINTS, REMENTS, ELECTRICAL LOAD- OR LICENSING/DESIGN PROCESSED OR SUPPLEMENTED
00923. Rev 0 20041104 BI ANKET AF	
	R FOR ITEM EQUIVALENCY EVAL (IEEIEC)

Status: Y N U

Seismic Walkdown	Checklist (SWC)
------------------	-----------------

Equipment ID No.: BATTERY BANK C

Equipment Class: (15) Batteries on Racks

Equipment Description: VITAL BANK 'C' STATION BATTERY (LEAD ACID)

*** ACTION REQUEST ***       PAGE: 01         A/R TYPE : CM ECR       A/R NUMBER : A2057072         REQUEST ORG : OEPE       A/R STATUS : ASIGND         REQUEST DATE: 10MAR03       STATUS DATE: 03NOV04         REQUESTED BY: HECK, MICHAEL       LAST UPDATE: 20NOV04         PRINT DATE : 20NOV04       PRINT DATE : 20NOV04
EVALUATION NBR:       08       ORIG DATE ASSIGNED:         EVALUATING ORG:       OEDM       EVAL DUE DATE:         EVAL ASIGND TO:       NIOGI, SUJIT       DATE ASSIGNED:         EVAL REQUEST ORG:       OEDE       060CT04         EVAL REQUESTOR:       HECK, MIKE       EVAL STATUS :
EVAL REQUESTOR:
EVAL DESC: PERFROM SOUG WALKDOWN OF NEW C BATTERY AFTER INSTALLATION. ADD TO YOUR SCHEDULE. FHR FHR 060CT04 SNN1 18NOV04
ENGINEERING RESPONSE: SNN1 18NOV04 SNN1 18NOV04 REASON FOR EVALUATION/SCOPE: SNN1 18NOV04
SOUG WALK DOWN OF THE 'C' BATTERY WAS PERFORMED AND SNN1 18NOV04
APPROXIMATELY 1/2 INCH GAP BETWEEN THE HORIZONTAL SNN1 18NOV04 RAIL AND THE BATTERY CELLS. THE SEISMIC SNN1 18NOV04 OUALIFICATION OF THE BATTERY WITH THE RACK WAS SNN1 18NOV04 PERFORMED AT THE WILE LABORATORIES AND IS SNN1 18NOV04
DOCUMENTED IN REFERENCE 1. THE SEISMIC TESTING WAS SNN1 18NOV04 PERFORMED WITHOUT ANY GAP BETWEEN THE BATTERY CELLS SNN1 18NOV04 AND THE RACK HORIZONTAL RAILS. REASON FOR THIS SNN1 18NOV04
EVALUATION IS TO JUSTIFY SEISMIC QUALIFICATION OF SNN1 18NOV04 THE BATTERY AND THE BATTERY RACK WITH THE 1/2-INCH SNN1 18NOV04 GAP. SNN1 18NOV04 SNN1 18NOV04
THIS RESPONSE WILL BE PROVIDED IN THE FORM OF A         SNN1 18NOV04           TECHNICAL EVALUATION PREPARED IN ACCORDANCE WITH         SNN1 18NOV04           CC-AA-309-101 REV 7.         SNN1 18NOV04
SNN1 18NOV04         DETAILED EVALUATION:         SNN1 18NOV04         SNN1 18NOV04
THE BATTERY RACK IS LOCATED AT TURBINE BUILDING EL.       SNN1 18NOV04         23'-6".       THE RACK IS A PRIMARILY BOLTED STRUCTURE       SNN1 18NOV04         AND IS BOLTED TO THE FLOOR (REFERENCE 2) PROVIDES       SNN1 18NOV04         THE PLAN, SECTIONS AND DETAILS OF THE RACK. FROM       SNN1 18NOV04         REFERENCE 3 DAMPING VALUE FOR BOLTED STRUCTURE IS       SNN1 18NOV04
THE FLAM, SECTIONS AND DETAILS OF THE MACK. TRUE         INNU TONOTOF           REFERENCE 3 DAMPING VALUE FOR BOLTED STRUCTURE IS         SNN1 18NOV04           7% FOR SSE. THE PEAK ACCELERATIONS AT THAT         SNN1 18NOV04           LOCATION FOR 7% DAMPING FROM REFERENCE 4 IS 0.35G         SNN1 18NOV04
7% FOR SSE. THE PEAK ACCELERATIONS AT THAT       SNN1 18NOV04         10CATION FOR 7% DAMPING FROM REFERENCE 4 IS 0.35G       SNN1 18NOV04         IN THE HORIZONTAL DIRECTIONS AND 0.24G IN THE       SNN1 18NOV04         VERTICAL DIRECTION, THE BATTERY CELLS ARE MADE OF       SNN1 18NOV04         PLASTIC (REFERENCE 5). FROM REFERENCE 6,       SNN1 18NOV04         CONFUCTION OF FROM REFERENCE 6,       SNN1 18NOV04
PLASTIC (REFERENCE 5). FROM REFERENCE 6,       SNN1 18NOV04         COEFFICIENT OF FRICTION BETWEEN STEEL, AND       SNN1 18NOV04         POLYSTYRENE OR BAKELITE IS 0.3. THE WEIGHT OF THE       SNN1 18NOV04         BATTERY CELL IS 269 POUNDS (REFERENCE 5). THERE       SNN1 18NOV04         ARE 15 CELLS PER RACK. THE LENGTH OF THE RACK IS       SNN1 18NOV04         APPROXIMATELY 10 FEET (REFERENCE 2). TOTAL WEIGHT       SNN1 18NOV04         OF THE CELLS IS 15 X 269 = 4035 POUNDS. THEREFORE,       SNN1 18NOV04         HORIZONTAL FORCE ON THE RACK DUE TO HORIZONTAL       SNN1 18NOV04
APPROXIMATELY 10 FEET (REFERENCE 2). TOTAL WEIGHT SNN1 18NOV04 OF THE CELLS IS 15 X 269 = 4035 POUNDS. THEREFORE, SNN1 18NOV04 HORIZONTAL FORCE ON THE RACK DUE TO HORIZONTAL SNN1 18NOV04

A2057072 E08, Rev NA, 20041120, PERFORM SQUG WALKDOWN OF NEW C BATTERY

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	BATTERY BANK C
Equipment Class:	(15) Batteries on Racks
Equipment Description:	VITAL BANK 'C' STATION BATTERY (LEAD ACID)
ERMS - Department Transmittal	Page 2 of 4

Doc Number: SQ-OC-BATTERY BANK C

Sheet: Date: 10/17/2011

Mjr Rev: 000 Mnr Rev:

Dept Trans: D177718 Facility: OYS SRRS ID: 3A.114 Doc Type: SQB Sub Type: Addl Type:

DocTitle: DIVISION C BATTERIES



http://edmsapp.exeloncorp.com/erms/dept/depttrans/print

10/21/2011

SQ-OC-BATTERY BANK C, Rev 001, 20111017, DIVISION C BATTERIES

Seismic Walkdown Checklis	+ (SMC)	Status: Y N U
Equipment ID No.:	a definition of the second s	·
Equipment Class:		<u> </u>
Equipment Description:	'C' STATION BATTERY SOLID STATE STATIC CHARGER	C1
Proj	ject: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Ar	ea): TB, 23.00 ft, 26	and Westman 1
Manufacturer/Mo	idel:	
SWEL. The space below each findings. Additional space is p	<b>Checklist</b> document the results of the Seismic Walkdown of an item of ea n of the following questions may be used to record the results o provided at the end of this checklist for documenting other comm	of judgments and
Anchorage		
<ol> <li>Is anchorage configuration of SWEL items requiring the second seco</li></ol>	ation verification required (i.e., is the item one of the 50% ng such verification)?	Yes
2. Is the anchorage free	of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free	of corrosion that is more than mild surface oxidation?	Yes
4 Is the anchorage free	of visible cracks in the concrete near the anchors?	Yes
-	iguration consistent with plant documentation? (Note: plies if the item is one of the 50% for which an anchorage on is required.)	Yes
<ol> <li>Based on the above a potentially adverse se</li> </ol>	nchorage evaluations, is the anchorage free of ismic conditions?	Yes

Seismic Walkd	own Checklist	SWC)		Status: Y N U
Equ	ipment ID No.:	BTCHG C1		
Equ	upment Class:	(16) Inverters		
Equipme	nt Description:	'C' STATION BATTERY SOLI	D STATE STATIC CHARG	ER C1
Interaction Effe	ects		· ·	
7. Are soft	targets free fro	n impact by nearby equipment	or structures?	Yes
		t, distribution systems, ceiling t likely to collapse onto the equi		Yes
9. Do atta	ched lines have	adequate flexibility to avoid dar	nage?	Yes
•				
		smic interaction evaluations, is nic interaction effects?	equipment free of	Yes
Other Adverse	Conditions			
11. Have yo	ou looked for an	I found no adverse seismic con ty functions of the equipment?		Yes
<u>Comments</u> See SQ-OC-BT	CHG C1 & C2	Rev 00		· · ·
Evaluated by:	Man	S Cho Mark Etre	Date:	10/10/12
	So	Bur Seth Bake	er	10/10/12

Ctotuc:		N	11
Status:	I	IN	U

# Seismic Walkdown Checklist (SWC)

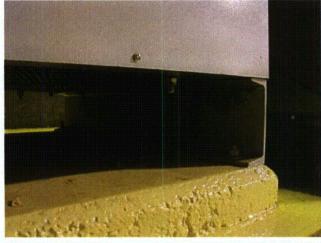
Equipment ID No.:	BTCHG C1
Equipment Class:	(16) Inverters
Equipment Description:	'C' STATION BATTERY SOLID STATE STATIC CHARGER C1

#### Photos



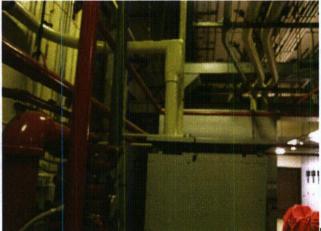


MG\_1068



MG\_1072

MG\_1069



MG\_1073

Seismic Walkdown Checklist (		Status: Y N U
Equipment ID No.:		
	(14) Distribution Panels	
	CONTINUOUS INSTRUMENT PNL NO.3 208/120V,3PH,4W	 / 60HZ
Proje		,00112
Location (Bldg, Elev, Room/Area		<u>.</u>
Manufacturer/Mode		
Instructions for Completing C		
This checklist may be used to do SWEL. The space below each of	ocument the results of the Seismic Walkdown of an item of eq of the following questions may be used to record the results of wided at the end of this checklist for documenting other comm	f judgments and
<u>Anchorage</u>		
<ol> <li>Is anchorage configurat of SWEL items requiring</li> </ol>	on verification required (i.e., is the item one of the 50% such verification)?	Yes
2. Is the anchorage free of	bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of	corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of	visible cracks in the concrete near the anchors?	Yes
	uration consistent with plant documentation? (Note: es if the item is one of the 50% for which an anchorage n is required.)	Yes
<ol><li>Based on the above and potentially adverse seis</li></ol>	chorage evaluations, is the anchorage free of mic conditions?	Yes

.

Seismic Walkdown Checklist		tus: Y N U
Equipment ID No.:	CIP-3	
· · · · ·	(14) Distribution Panels	
Equipment Description:		HZ
Interaction Effects		
7. Are soft targets free from	m impact by nearby equipment or structures?	Yes
	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment?	Yes
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
	ismic interaction evaluations, is equipment free of smic interaction effects?	Yes
•	d found no adverse seismic conditions that could fety functions of the equipment?	Yes
<u>Comments</u> See Seismic Qualification SQ-C Calculation C-1302X-322C-A06 NRC IE Bulletin 80-11.	DC-CIP-3 Rev 0 S qualifies the Oyster Creek safety-related masonry walls for seisn	nic to address
	Mark Etre Date: 10/10/ Date: 10/10/ Date: 10/10/	

Status:	Y	N	U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	CIP-3
Equipment Class:	(14) Distribution Panels
Equipment Description:	CONTINUOUS INSTRUMENT PNL NO.3 208/120V,3PH,4W,60HZ

# Photos





MG\_0874

MG\_0875



MG\_0879

		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	CIP-3	
Equipment Class:	(14) Distribution Panels	
Equipment Description:	CONTINUOUS INSTRUMENT PNL NO.3 208/120V,3	3PH,4W,60HZ
SQUG SEWS		
EBASCO SERVICES INCORPO		
Two World Trade Center, New York, N.Y. 1004	3	
	April 29, 1981	
GPU Services Incorpora Attention: Mr. Leon Ga 100 Interpace Parkway Parsippany, NJ 07054	ted fibian	
Dear Leon:		
Re: OYSTER CREEK NUCLI FINAL SUBMITTAL OI EVALUATION CALCUL	MASONRY WALL	
DOOKS AND IT VOLUMES OF	ether with this letter,20 volumes of calculation computer output. This will mark the end of our evaluation of the Safety-Related Concrete Masonry C IE Bulletin 80-11.	
Should you have any que please do not hestitate	stions regarding the calculations and sketches, to call. We will be glad to help.	
	Very truly yours,	
	E Star by gur	
	E Odar Assistant Chief Civil Engineer	
GW: d1		
cc: K D Chiu G Wu		
•		
,		
 C1302X322CA06 VOL 1 1081	0427, REEVALUATION OF CONCRETE MASONRY V	VALL NRC IF BUILLETIN

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Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: CV-305-126\10-31	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CRD INLET SCRAM VALVE (North)	
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area): RB, 23.00 ft, 13 Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other con	of judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

C-44

.

Seismic Walkdown Checklis	t (SWC)	Status: Y N U
Equipment ID No.:	CV-305-126\10-31	
	(7) Fluid-Operated Valves	·······
Equipment Description:	CRD INLET SCRAM VALVE (North)	
Interaction Effects		· · ·
7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes
	ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?	Yes
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of ismic interaction effects?	Yes
Other Adverse Conditions	· · · · · · · · · · · · · · · · · · ·	
-	nd found no adverse seismic conditions that could afety functions of the equipment?	Yes
<u>Comments</u>	· · · · ·	
See Calculation's C-1302-225	-E310-049, Rev. 0 and C-1302-225-E310-050, Rev. 0	
SQ-OC-HCU-305-XX-XX, Rev	1	
101	1187	
Evaluated by:	Mark Etre Date	: 10/10/12
Se	Mark Etre Date	10/10/12

Status:	Y	Ν	U
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#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	CV-305-126\10-31		
Equipment Class:	(7) Fluid-Operated Valves		
Equipment Description:	CRD INLET SCRAM VALVE (North)		

# **Photo**



IMG\_0731

Seismic	Walkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:	CV-305-126\10-39	
	•	(7) Fluid-Operated Valves	
E	quipment Description:	CRD INLET SCRAM VALVE (North)	
	Proje	ct: Oyster Creek SWEL	
Location	(Bldg, Elev, Room/Are	a): RB, 23.00 ft, 13	•
	Manufacturer/Mod	el:	
Instruct	ions for Completing C	hecklist	
SWEL.	The space below each	ocument the results of the Seismic Walkdown of an item of the following questions may be used to record the res ovided at the end of this checklist for documenting other	ults of judgments and
Anchor			
	Is anchorage configurat of SWEL items requirin	ion verification required (i.e., is the item one of the 50% g such verification)?	No
2.	Is the anchorage free o	f bent, broken, missing or loose hardware?	Not Applicable
2		formation that is more than mild surface evidation?	Not Applicable
3.	is the anchorage free o	f corrosion that is more than mild surface oxidation?	Not Applicable
		r i 11. an la istra constructo a secolo se el secolo de secolo secolo se el secolo se el secolo se el secolo s	
4.	Is the anchorage free o	f visible cracks in the concrete near the anchors?	Not Applicable
		uration consistent with plant documentation? (Note: ies if the item is one of the 50% for which an anchorage n is required.)	Not Applicable
	Based on the above an potentially adverse seis	chorage evaluations, is the anchorage free of mic conditions?	Yes

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Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: CV-305-126\10-39	
Equipment Class: (7) Fluid-Operated Valves	· · · · ·
Equipment Description: CRD INLET SCRAM VALVE (North)	
<u>Interaction Effects</u> 7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
· · · · · · · · · · · · · · · · · · ·	
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
adversely affect the safety functions of the equipment?	
<u>Comments</u> In-line equipment.	
m-me equipment.	
See Calculation's C-1302-225-E310-049, Rev. 0 and C-1302-225-E310-050, Rev. 0	
SQ-OC-HCU-305-XX-XX, Rev 1	
m 1 1 st	
Evaluated by: Mark Etre Date: 10	0/10/12
Evaluated by: Mark Etre Date: 10	0/10/12

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Status:	Y	N	U
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# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	CV-305-126\10-39	
Equipment Class:	(7) Fluid-Operated Valves	
Equipment Description:	CRD INLET SCRAM VALVE (North)	

#### **Photo**



IMG\_0734

Status: Y N U

Seismic Walkdown Checklist	t (SWC)	1
Equipment ID No.:	CV-305-126\30-03	
Equipment Class:	(7) Fluid-Operated Valves	
Equipment Description:	CRD INLET SCRAM VALVE (South)	· · · · · · · · · · · · · · · · · · ·
Proj	ect: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Are	ea):RB, 23.00 ft, 08	•
Manufacturer/Mo	del:	
SWEL. The space below each findings. Additional space is pr	Checklist document the results of the Seismic Walkdown of an item of of the following questions may be used to record the results rovided at the end of this checklist for documenting other co	s of judgments and
Anchorage 1. Is anchorage configura of SWEL items requirir	ation verification required (i.e., is the item one of the 50% ng such verification)?	No
2. Is the anchorage free of	of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free o	of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of	of visible cracks in the concrete near the anchors?	Not Applicable
	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
<ol> <li>Based on the above an potentially adverse sei</li> </ol>	nchorage evaluations, is the anchorage free of smic conditions?	Yes

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Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: CV-305-126\30-03	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CRD INLET SCRAM VALVE (South)	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and	Yes
masonry block walls not likely to collapse onto the equipment?	
0 De etterhed lines have adequate flavibility to avoid demogra?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Tes
10. Based on the above seismic interaction evaluations, is equipment free of	Yes
potentially adverse seismic interaction effects?	
Other Adverse Conditions	Vee
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
Comments	
In-line equipment.	
See Calculation's C-1302-225-E310-049, Rev. 0 and C-1302-225-E310-050, Rev. 0	
SQ-OC-HCU-305-XX-XX, Rev 1	
mal & Ent	
Evaluated by: Mark Etre Date: _1	0/10/12
Evaluated by: Mark Etre Date: 1	
Seth Baker 1	0/10/12

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		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	CV-305-126\30-03	
Equipment Class:	(7) Fluid-Operated Valves	
Equipment Description:	CRD INLET SCRAM VALVE (South)	

### **Photos**





MG\_0805

MG\_0806

Status:	V	I N	- 11
Status.	I	IN	U

Seismic Walkdown Checklist (SWC)	
Equipment ID No.:CV-305-126\30-07	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CRD INLET SCRAM VALVE (South)	
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area):RB, 23.00 ft, 08	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of e SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other com	of judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	No
2. In the encharges free of best broken missing or lesse bordward?	Not Appliable
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
5. Is the anchorage configuration consistent with plant documentation? (Note:	Not Applicable
This question only applies if the item is one of the 50% for which an anchorage	Not Applicable
configuration verification is required.)	
6. Based on the above anchorage evaluations, is the anchorage free of	Yes
potentially adverse seismic conditions?	

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		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	CV-305-126\30-07	
Equipment Class:	(7) Fluid-Operated Valves	i i i i i i i i i i i i i i i i i i i
	CRD INLET SCRAM VALVE (South)	
Interaction Effects		
7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes
	nt, distribution systems, ceiling tiles and lightin ot likely to collapse onto the equipment?	g, and Yes
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free smic interaction effects?	e of Yes
Other Adverse Conditions		
•	nd found no adverse seismic conditions that co fety functions of the equipment?	uld Yes
<u>Comments</u> In-line equipment.		
See Calculation's C-1302-225-	E310-049, Rev. 0 and C-1302-225-E310-050,	Rev. 0
SQ-OC-HCU-305-XX-XX, Rev	1	
Evaluated by:	Mark Etre MBun Seth Baker	Date: 10/10/12
So	Bur Seth Baker	10/10/12

C-54

		Status:	Υ	N U
Seismic Walkdown Checklist	(SWC)			
Equipment ID No.:	CV-305-126\30-07			
Equipment Class:	(7) Fluid-Operated Valves			
Equipment Description:	CRD INLET SCRAM VALVE (South)			

#### **Photos**





MG\_0788

MG\_0789

Status: Y N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No.: CV-305-127\06-15	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CRD OUTLET SCRAM VALVE (North)	
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area): RB, 23.00 ft, 13	
Manufacturer/Model:	····
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of SWEL. The space below each of the following questions may be used to record the result findings. Additional space is provided at the end of this checklist for documenting other contents.	Its of judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	No
·	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
	Not Applicable
5. Is the anchorage configuration consistent with plant documentation? (Note:	Not Applicable
This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	
6. Based on the above anchorage evaluations, is the anchorage free of	Yes
potentially adverse seismic conditions?	

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: CV-305-127\06-15	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CRD OUTLET SCRAM VALVE (North)	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
<u>Comments</u> See Calculation's C-1302-225-E310-049, Rev. 0 and C-1302-225-E310-050, Rev. 0 SQ-OC-HCU-305-XX-XX, Rev 1	· .
Evaluated by: Mark Etre Date: 1	10/10/12
Sun Ber Seth Baker 1	10/10/12

Status:	Y	N	U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	CV-305-127\06-15			
Equipment Class:	(7) Fluid-Operated Valves			
Equipment Description:	CRD OUTLET SCRAM VALVE (North)			

### **Photo**



IMG\_0743

Status:	Υ	Ν	U

Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	CV-305-127\22-31	
Equipment Class:	(7) Fluid-Operated Valves	
Equipment Description:	CRD OUTLET SCRAM VALVE (North)	
Proje	ect: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Are	ea): RB, 23.00 ft, 13	
Manufacturer/Moc	del:	
SWEL. The space below each findings. Additional space is pr	Checklist locument the results of the Seismic Walkdown of an item of equ of the following questions may be used to record the results of ovided at the end of this checklist for documenting other comm	judgments and
Anchorage 1. Is anchorage configura of SWEL items requirin	tion verification required (i.e., is the item one of the 50% g such verification)?	No
2. Is the anchorage free o	of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free o	of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free o	of visible cracks in the concrete near the anchors?	Not Applicable
	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
<ol> <li>Based on the above an potentially adverse seis</li> </ol>	nchorage evaluations, is the anchorage free of smic conditions?	Yes

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	ic Walkdown Checklist (SV				
	Equipment ID No.: C	/-305-127\22-31			
	Equipment Class: (7)	) Fluid-Operated Valves		· · · · · · · · · · · · · · · · · · ·	
	Equipment Description: CF	RD OUTLET SCRAM VALVE (North	ר)		
<u>interac</u>	ction Effects				
7.	Are soft targets free from ir	npact by nearby equipment or struc	:tures?		
8.	• •	distribution systems, ceiling tiles and ely to collapse onto the equipment?			
9.	Do attached lines have ade	equate flexibility to avoid damage?			
10.	Based on the above seism potentially adverse seismic	ic interaction evaluations, is equipm ; interaction effects?	ent free of	х.	
<u>Other</u>	Adverse Conditions				
11.	-	ound no adverse seismic conditions functions of the equipment?	that could		
Comm	nents				
In-line	equipment.				
See C	alculation's C-1302-225-E31	0-049, Rev. 0 and C-1302-225-E31	0-050, Rev. 0		
SQ-00	C-HCU-305-XX-XX, Rev 1				
Evalua	ated by:	Mark Etre	Date:	10/10/12	
	Sin	Bur Seth Baker		10/10/12	

		Status:	Y	Ν	U
Seismic Walkdown Checklist	(SWC)				
Equipment ID No.:	CV-305-127\22-31				
Equipment Class:	(7) Fluid-Operated Valves				
Equipment Description:	CRD OUTLET SCRAM VALVE (North)				





Status:	Y	Ν	U
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Seismi	ic Walkdown Checklist	(SWC)	
	,	CV-305-127\30-03	
		(7) Fluid-Operated Valves	
		CRD OUTLET SCRAM VALVE (South)	<u> </u>
Locatio	-	ect: Oyster Creek SWEL	<u>, , ,</u>
Localio	on (Bldg, Elev, Room/Are Manufacturer/Moo		
Instruc	tions for Completing C		
This ch SWEL.	necklist may be used to c The space below each	document the results of the Seismic Walkdown of an item of of the following questions may be used to record the resul rovided at the end of this checklist for documenting other co	ts of judgments and
Ancho			
1.	Is anchorage configura of SWEL items requirin	ition verification required (i.e., is the item one of the 50% g such verification)?	No
2.	Is the anchorage free c	of bent, broken, missing or loose hardware?	Not Applicable
3.	Is the anchorage free c	of corrosion that is more than mild surface oxidation?	Not Applicable
4.	Is the anchorage free c	of visible cracks in the concrete near the anchors?	Not Applicable
5.		guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
6.	Based on the above ar potentially adverse seis	nchorage evaluations, is the anchorage free of smic conditions?	Yes

Seismic Walkdown Checklist	(SWC)	·	Status: 🗋	<u>'</u> N U
· · · · · ·	CV-305-127\30-03			
	(7) Fluid-Operated Valves			
Equipment Description:			,	
Interaction Effects				
	om impact by nearby equipment or structures?	·		Yes
	ent, distribution systems, ceiling tiles and lighting, a ot likely to collapse onto the equipment?	and		Yes
9. Do attached lines have	e adequate flexibility to avoid damage?			Yes
	eismic interaction evaluations, is equipment free of smic interaction effects?	:		Yes
Other Adverse Conditions				
11. Have you looked for a	nd found no adverse seismic conditions that could fety functions of the equipment?			Yes
•				
<u>Comments</u> In-line equipment.				
See Calculation's C-1302-225-	E310-049, Rev. 0 and C-1302-225-E310-050, Rev	v. 0		
SQ-OC-HCU-305-XX-XX, Rev	1			
Evaluated by:	Mark Etre Mark Etre	Date:	10/10/12	
Se	Ber Seth Baker		10/10/12	

		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	CV-305-127\30-03	
Equipment Class:	(7) Fluid-Operated Valves	
Equipment Description:	CRD OUTLET SCRAM VALVE (South)	

### Photo



IMG\_0811

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: CV-305-127\30-07	
Equipment Class: (7) Fluid-Operated Valve	
Equipment Description: CRD OUTLET SCRAM	
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area): RB, 23.00 ft, 08	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the SWEL. The space below each of the following questions findings. Additional space is provided at the end of this c	may be used to record the results of judgments and
<u>Anchorage</u>	
<ol> <li>Is anchorage configuration verification required ( of SWEL items requiring such verification)?</li> </ol>	i.e., is the item one of the 50% No
2. Is the anchorage free of bent, broken, missing or	loose hardware? Not Applicable
3. Is the anchorage free of corrosion that is more th	an mild surface oxidation? Not Applicable
4. Is the anchorage free of visible cracks in the con	crete near the anchors? Not Applicable
<ol> <li>Is the anchorage configuration consistent with plant of the item is one of the configuration verification is required.)</li> </ol>	
6. Based on the above anchorage evaluations, is the potentially adverse seismic conditions?	he anchorage free of Yes

		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	CV-305-127\30-07	
Equipment Class:	(7) Fluid-Operated Valves	
Equipment Description:	CRD OUTLET SCRAM VALVE (South)	
Interaction Effects		
7. Are soft targets free fro	m impact by nearby equipment or structures?	Yes
	nt, distribution systems, ceiling tiles and lighting, and It likely to collapse onto the equipment?	Yes
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
	ismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other Adverse Conditions		
11. Have you looked for ar	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes
<u>Comments</u>		
In-line equipment.		
See Calculation's C-1302-225-	E310-049, Rev. 0 and C-1302-225-E310-050, Rev. 0	
SQ-OC-HCU-305-XX-XX, Rev	1	

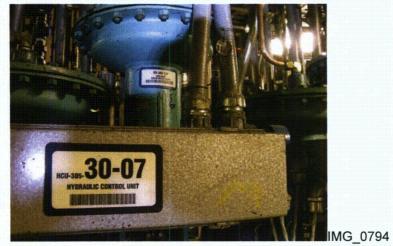
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Evaluated by:	Man S End Mark Etre	Date:	10/10/12	
	Son Bun Seth Baker		10/10/12	

		Status:	Y	Ν	U	
Seismic Walkdown Checklist	(SWC)					
Equipment ID No.:	CV-305-127\30-07					
Equipment Class:	(7) Fluid-Operated Valves					
Equipment Description:	CRD OUTLET SCRAM VALVE (South)					

#### Photo



Seismic Walkdown Checklist (		U
Equipment ID No.: _		
Equipment Class:	(14) Distribution Panels	
Equipment Description:	125VDC POWER PANEL DC-F	
Projec	ct: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area	a):RB, 23.00 ft, 12	
Manufacturer/Mode	əl:	
Instructions for Completing Cl	hecklist	
SWEL. The space below each of	ocument the results of the Seismic Walkdown of an item of equipment on the of the following questions may be used to record the results of judgments and vided at the end of this checklist for documenting other comments.	
<u>Anchorage</u>		
<ol> <li>Is anchorage configurati of SWEL items requiring</li> </ol>	on verification required (i.e., is the item one of the 50% Ye such verification)?	÷S
2. Is the anchorage free of	bent, broken, missing or loose hardware? Ye	es
3. Is the anchorage free of	corrosion that is more than mild surface oxidation?	es
4. Is the anchorage free of	visible cracks in the concrete near the anchors? Ye	es
	es if the item is one of the 50% for which an anchorage	es
<ol> <li>Based on the above and potentially adverse seisr</li> </ol>		es

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		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	DC-F	
Equipment Class:	(14) Distribution Panels	·
Equipment Description:	125VDC POWER PANEL DC-F	
Interaction Effects		
7. Are soft targets free fro	m impact by nearby equipment or structures?	Yes
8. Are overhead equipme	nt, distribution systems, ceiling tiles and lighting, and	Yes
masonry block walls no	ot likely to collapse onto the equipment?	
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
10. Based on the above se	sismic interaction evaluations, is equipment free of	Yes
potentially adverse seis	smic interaction effects?	
Other Adverse Conditions		
	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes
auversely allect the sa		
Commente		
Comments See Seismic Qualification No. 3	SQ-OC-DC-F. Rev 000	
Unsecured thermometer above	e panel was resolved by Operations and is being tracked b	y IR 1406823.
Calculation C-1302X-322C-A0 NRC IE Bulletin 80-11.	6 qualifies the Oyster Creek safety-related masonry walls f	or seismic to address
200 1	1185	

Evaluated by:	Man S Che Mark Etre	Date:	10/10/12
	Sun Ber Seth Baker		10/10/12

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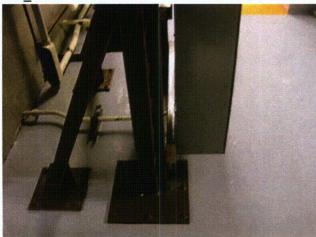
Osisania Walladaran Obeeldist		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	DC-F	
Equipment Class:	(14) Distribution Panels	
Equipment Description:	125VDC POWER PANEL DC-F	

# **Photos**



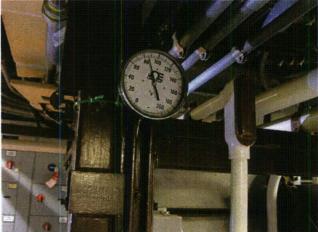


MG\_0895



MG\_0897

MG\_0896



MG\_0904

	c Walkdown Checklist (SW		
	Equipment ID No.: DC-	-F	
	Equipment Class: (14)	) Distribution Panels	
E	Equipment Description: 125	SVDC POWER PANEL DC-F	
QUG	SEWS		
	EBASCO SERVICES INCORPORATE Two World Trade Center, New York, N.Y. 10048	D EBASCO	
0	Two work Trade Center, New York, N.Y. 10048		
		April 29, 1981	
	GPU Services Incorporated Attention: Mr. Leon Garibian 100 Interpace Parkway Parsippany, NJ 07054	n	
	Dear Leon:		
	Re: OYSTER CREEK NUCLEAR ST FINAL SUBMITTAL OF MASO EVALUATION CALCULATION	DNRY WALL	
	books did it actuiles of comp	with this letter,20 volumes of calculation outer output. This will mark the end of our mation of the Safety-Related Concrete Masonry Bulletin 80-11.	
	Should you have any questions please do not hestitate to ca	s regarding the calculations and sketches, all. We will be glad to help.	
		Very truly yours,	
		E Star by gu	
		E Odar Assistant Chief Civil Engineer	
	GW:d1		
	cc: K D Chiu G Wu		
D			
		le la	

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C-71

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: DG-1 BATTERY BANK	
Equipment Class: (15) Batteries on Racks	,
Equipment Description: DIESEL GENERATOR UNIT #1 STARTING BATTERIES	
Project: Oyster Creek SWEL	· · · · · · · · · · · · · · · · · · ·
Location (Bldg, Elev, Room/Area): DG BLDG, 23.00 ft, 01	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item o SWEL. The space below each of the following questions may be used to record the result findings. Additional space is provided at the end of this checklist for documenting other contents.	ts of judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Ł

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: DG-1 BATTERY BANK	
Equipment Class: (15) Batteries on Racks	
Equipment Description: DIESEL GENERATOR UNIT #1 STARTING BATTERIES	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
Comments See SQ-OC-M-39-001 Rev 06	
) - Russ	D/10/12 D/10/12

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C-73

Status:	V	N L
Status.	1	

## Seismic Walkdown Checklist (SWC)

Equipment ID No.:	DG-1 BATTERY BANK
Equipment Class:	(15) Batteries on Racks
Equipment Description:	DIESEL GENERATOR UNIT #1 STARTING BATTERIES

### **Photos**





MG\_1145

MG\_1149

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: DG-1 BATTERY CHARGER	
Equipment Class: (16) Inverters	
Equipment Description: DIESEL GENERATOR UNIT #1 BATTERY CHARGER	
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area): DG BLDG, 23.00 ft, 01	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of ea SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comm	of judgments and
Anchorage	No
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Solomia V	Nalkdown Chooklist (SMC)	Status: Y N U
Seismic	Valkdown Checklist (SWC)	
	Equipment ID No.: DG-1 BATTERY CHARGER	
	Equipment Class: (16) Inverters	
	uipment Description: DIESEL GENERATOR UNIT #1 BATTERY CHARGER	
<u>Interactio</u>		· ·
7. Ai	re soft targets free from impact by nearby equipment or structures?	Yes
8. A	re overhead equipment, distribution systems, ceiling tiles and lighting, and	Yes
	asonry block walls not likely to collapse onto the equipment?	
9. D	o attached lines have adequate flexibility to avoid damage?	Yes
	ased on the above seismic interaction evaluations, is equipment free of otentially adverse seismic interaction effects?	Yes
P		
	verse Conditions	:
	ave you looked for and found no adverse seismic conditions that could dversely affect the safety functions of the equipment?	Yes
<u>Commen</u>		
See SQ-C	DC-M-39-001 Rev 06	
Evaluated	I by: Mark Etre Date: 1	0/10/12
	I by: Mark Etre Date: 1	
	Sundawn Seth Baker 1	0/10/12

Status:	Y	N	U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.:	DG-1 BATTERY CHARGER
Equipment Class:	(16) Inverters
Equipment Description:	DIESEL GENERATOR UNIT #1 BATTERY CHARGER

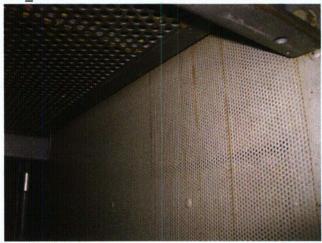
#### **Photos**





MG\_1184

MG\_1185



MG\_1186

Status: Y N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No.: DG-1 SWGR	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: DIESEL GENERATOR #1 UNIT SWITCHGEAR	
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area): DG BLDG, 23.00 ft, 01	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equip SWEL. The space below each of the following questions may be used to record the results of jud findings. Additional space is provided at the end of this checklist for documenting other commen	dgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
	100
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
	•
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage</li> </ol>	Yes
configuration verification is required.)	
6. Based on the above anchorage evaluations, is the anchorage free of	Yes
potentially adverse seismic conditions?	

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: DG-1 SWGR	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	·
Equipment Description: DIESEL GENERATOR #1 UNIT SWITCHGEAR	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
<ul> <li>Other Adverse Conditions</li> <li>11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?</li> </ul>	Yes
Comments See Seismic Qualification No. SQ-OC-DG-1-SWGR	
) - Russ	10/10/12

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	DG-1 SWGR
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	DIESEL GENERATOR #1 UNIT SWITCHGEAR

## **Photos**





MG\_1190



MG\_1196

MG\_1195

Status:	N	- 11
otatus.	11	0

Seismic Walkdown Checklist (SWC)	
Equipment ID No.: DPIS-IB0005A1	
Equipment Class: (18) Instruments on Racks	
Equipment Description: EMERGENCY CONDENSER NE01A HIGH SYSTEM FLOW SWIT	СН
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area):RB, 51.00 ft, 06	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipme SWEL. The space below each of the following questions may be used to record the results of judgr findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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Seismic Walkdown Checklis	(SWC)	Status: Y N U
Equipment ID No.:		
	(18) Instruments on Racks	<u> </u>
	EMERGENCY CONDENSER NE01A HIGH SYSTEM FLO	OW SWITCH
Interaction Effects		
7. Are soft targets free fre	om impact by nearby equipment or structures?	Yes
• •	nt, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?	Yes
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other Adverse Conditions		·
11. Have you looked for a	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes
	· ·	
<u>Comments</u> See SQUG SEWS (SQ-OC-RI	(03) Rev 000	
Evaluated by:	Rus	10/10/12 10/10/12

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	DPIS-IB0005A1
Equipment Class:	(18) Instruments on Racks
Equipment Description:	EMERGENCY CONDENSER NE01A HIGH SYSTEM FLOW SWITCH

# Photo



IMG\_0680

Status:	Y	N	U
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Seismic Walkdown Checklist (SWC)	
Equipment ID No.: DPT-6-IA0091B	
Equipment Class: (18) Instruments on Racks	
Equipment Description: FUEL ZONE LEVEL 'B' WIDE RANGE LEVEL TRANSMITTER	
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area):RB, 51.00 ft, 06	· ·
Manufacturer/Model:	10 <b>1</b>
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipmer SWEL. The space below each of the following questions may be used to record the results of judgm findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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Seismic Walkdow	n Checklist (SWC)	Status: Y N U
Equipm	ent ID No.: DPT-6-IA0091B	
• •	nent Class: (18) Instruments on Racks	
•	Description: FUEL ZONE LEVEL 'B' WIDE RANGE LEVEL TRANSMIT	TTER
Interaction Effects		· · · · · · · · · · · · · · · · · · ·
7. Are soft tar	gets free from impact by nearby equipment or structures?	Yes
	ead equipment, distribution systems, ceiling tiles and lighting, and lock walls not likely to collapse onto the equipment?	Yes
9. Do attache	d lines have adequate flexibility to avoid damage?	Yes
	he above seismic interaction evaluations, is equipment free of adverse seismic interaction effects?	Yes
Other Adverse Co	nditions	
-	ooked for and found no adverse seismic conditions that could affect the safety functions of the equipment?	Yes
Comments See SQUG SEWS	(SQ-OC-RK03) Rev 000	
See Seismic Qualif	fication SQ-OC-DPT-6-IA0091B Rev 0	
Evaluated by:	Man S Ere Date:	10/10/12
	Sun Beth Baker	10/10/12

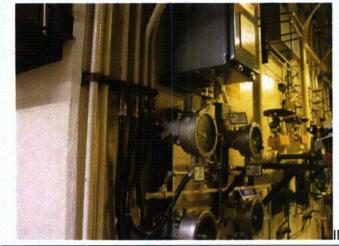
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Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.:	DPT-6-IA0091B
Equipment Class:	(18) Instruments on Racks
Equipment Description:	FUEL ZONE LEVEL 'B' WIDE RANGE LEVEL TRANSMITTER

## **Photos**



IMG\_0688

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Status: Y N U

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Equipment ID No.: ER18A	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: CORE SPRAY/AUTO DEPRESS'N SYSTEM RELAY LOGIC I	PANEL
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area): RB, 23.00 ft, 12	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equ SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comme	judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage</li> </ol>	Yes
configuration verification is required.)	
6. Based on the above anchorage evaluations, is the anchorage free of	Yes
potentially adverse seismic conditions?	

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		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	ER18A	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	CORE SPRAY/AUTO DEPRESS'N SYSTEM RELAY LO	GIC PANEL
Interaction Effects 7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes
	ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?	Yes
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other Adverse Conditions		
11. Have you looked for a	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes
<u>Comments</u>		
See Seismic Qualification SQ-	OC-ER-18A Rev 1	
Calculation C-1302X-322C-A0 NRC IE Bulletin 80-11.	6 qualifies the Oyster Creek safety-related masonry walls for	or seismic to address
Evaluated by:	Mark Etre Date: Date:	10/10/12

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.:	ER18A
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	CORE SPRAY/AUTO DEPRESS'N SYSTEM RELAY LOGIC PANEL

#### **Photos**





MG\_0907

MG\_0908



MG\_0910

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: FN-56-4	
Equipment Class: (9) Fans	
Equipment Description: "A" 480 SWGR RM SUPPLY FAN	
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area): RB, 23.00 ft, 14	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of easy SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comm	of judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdown Checklist		Status: Y N U
Equipment ID No.:		
Equipment Class:		
	"A" 480 SWGR RM SUPPLY FAN	<u> </u>
Interaction Effects		
7. Are soft targets free fro	m impact by nearby equipment or structures?	Yes
• •	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment?	Yes
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
	ismic interaction evaluations, is equipment free of smic interaction effects?	Yes
-	d found no adverse seismic conditions that could fety functions of the equipment?	Yes
<u>Comments</u> See SQ-OC-FN-56-0004 Rev (	0	
Evaluated by:	Mark Etre Date	10/10/12 10/10/12

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	FN-56-4	
Equipment Class:	(9) Fans	
Equipment Description:	"A" 480 SWGR RM SUPPLY FAN	
Photos		

#### PI





MG\_0981

MG\_0982

Status: Y N U

Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	FN-732-1	
Equipment Class:	(9) Fans	
Equipment Description:	USS 1A2-460V TRANSFORMER COOLING FAN	
Proje	ct: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Are	a):RB, 23.00 ft, 16	
Manufacturer/Mod	el:	
Instructions for Completing C		
SWEL. The space below each	ocument the results of the Seismic Walkdown of an item of equipment of the following questions may be used to record the results of judgme ovided at the end of this checklist for documenting other comments.	
Anchorage 1. Is anchorage configurat of SWEL items requiring	ion verification required (i.e., is the item one of the 50% g such verification)?	Yes
2. Is the anchorage free o	bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free o	f corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free o	f visible cracks in the concrete near the anchors?	Yes
	uration consistent with plant documentation? (Note: es if the item is one of the 50% for which an anchorage n is required.)	Yes
<ol><li>Based on the above an potentially adverse seis</li></ol>	chorage evaluations, is the anchorage free of mic conditions?	Yes

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Seism	ic Walkdown	Checklist	(SWC)				Status:	YNU
			FN-732-1					
			(9) Fans	<u> </u>			<u> </u>	
	• •			OV TRANSFO	ORMER COOL	ING FAN		
	ction Effects	<u> </u>						
7.	Are soft targ	ets free fro	om impact by r	nearby equipm	nent or structur	es?		Yes
8.			nt, distribution ot likely to colla		ling tiles and lig equipment?	phting, and		Yes
9.	Do attached	lines have	adequate flex	kibility to avoid	I damage?			Yes
10.			eismic interacti smic interactio		s, is equipmen	t free of		Yes
Other	Adverse Con	ditions						
11.	Have you lo	oked for a	nd found no ac fety functions		c conditions that ent?	at could		Yes
							N.	
Comm See Se	<u>nents</u> Q-OC-ER-732	-092 Rev	00			· · · · · · · · · · · · · · · · · · ·		
Evalua	ated by:	Man	1 S End	Mark Etre	)	Date:	10/10/12	
	_	Sc	nBe	Seth	Baker		10/10/12	
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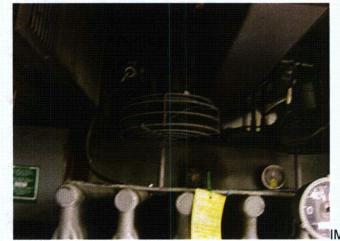
C-94

Status:	Y	NL	J

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	FN-732-1
Equipment Class:	(9) Fans
Equipment Description:	USS 1A2-460V TRANSFORMER COOLING FAN

**Photo** 



IMG\_1001

Status Seismic Walkdown Checklist (SWC)	: <b>Y</b> N U
Equipment ID No.: FN-732-2	
Equipment Class: (9) Fans	
Equipment Description: USS 1A2-460V TRANSFORMER COOLING FAN	
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area): RB, 23.00 ft, 16	
Manufacturer/Model:	
Instructions for Completing Checklist	• • • •
This checklist may be used to document the results of the Seismic Walkdown of an item of equipmen SWEL. The space below each of the following questions may be used to record the results of judgm findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Colomia Malkdown Chooklint		Status: Y N U
Seismic Walkdown Checklist		
Equipment ID No.:		
Equipment Class:		
Equipment Description: Interaction Effects	USS 1A2-460V TRANSFORMER COOLING FAN	
	m impact by nearby equipment or structures?	Yes
	nt, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?	Yes
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other Adverse Conditions		
11. Have you looked for a	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes
<u>Comments</u>		
See SQ-OC-ER-732-092 Rev	00	
Evaluated by:	Mark Etre Date:	10/10/12
St	Seth Baker	10/10/12

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Status:	Y	Ν	U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: FN-732-2

Equipment Class: (9) Fans

Equipment Description: USS 1A2-460V TRANSFORMER COOLING FAN

### **Photo**



IMG\_1002

Seismic	Walkdown Checklist		Status: Y N U
	Equipment ID No.:		
	Equipment Class:		
E		USS 1A2-460V TRANSFORMER COOLING FAN	
		ct: Oyster Creek SWEL	
Location	Bldg, Elev, Room/Are		
	Manufacturer/Mod		
Instruct	ions for Completing C	hecklist	i
SWEL.	The space below each	ocument the results of the Seismic Walkdown of an item of equot of the following questions may be used to record the results of by ided at the end of this checklist for documenting other comm	judgments and
Anchora			
	Is anchorage configura of SWEL items requirin	ion verification required (i.e., is the item one of the 50% g such verification)?	Yes
		······································	
2.	Is the anchorage free o	f bent, broken, missing or loose hardware?	Yes
	Ū		
_			X
. 3.	is the anchorage free o	f corrosion that is more than mild surface oxidation?	Yes
4.	Is the anchorage free o	f visible cracks in the concrete near the anchors?	Yes
,			
		uration consistent with plant documentation? (Note:	Yes
	This question only appl configuration verificatio	ies if the item is one of the 50% for which an anchorage n is required.)	
		· · · · · · · · · · · · · · · · · · ·	
6.	Based on the above an	chorage evaluations, is the anchorage free of	Yes
	potentially adverse seis		

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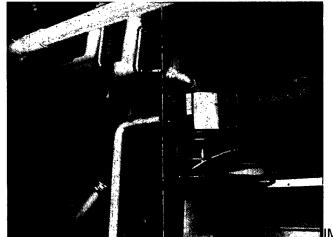
		Status: Y N U
Seismic Walkdown Checklis		
Equipment ID No.:		
Equipment Class:		· · · · · · · · · · · · · · · · · · ·
	USS 1A2-460V TRANSFORMER COOLING FAN	
Interaction Effects 7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes
	ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?	Yes
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
-	nd found no adverse seismic conditions that could afety functions of the equipment?	Yes
Comments See SQ-OC-ER-732-092 Rev	00	
Evaluated by:	Mark Etre Date	e: 10/10/12 10/10/12

Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	FN-732-3
Equipment Class:	(9) Fans
Equipment Description:	USS 1A2-460V TRANSFORMER COOLING FAN

## <u>Photo</u>



IMG\_1005

Seismic Walkdown Checklist	(SWC)	NU
Equipment ID No.:		
· · ·	(21) Tanks and Heat Exchangers	
	AUGMENTED SPENT FUEL POOL HEAT EXCHANGER(NN02-C)	
	ect: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Are		
Manufacturer/Mod	lei:	
SWEL. The space below each	Checklist locument the results of the Seismic Walkdown of an item of equipment on of the following questions may be used to record the results of judgments ovided at the end of this checklist for documenting other comments.	
Anchorage		
<ol> <li>Is anchorage configuration of SWEL items requiring</li> </ol>	tion verification required (i.e., is the item one of the 50% g such verification)?	Yes
2. Is the anchorage free o	of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free o	of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free o	of visible cracks in the concrete near the anchors?	Yes
	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Yes
<ol><li>Based on the above an potentially adverse seis</li></ol>	nchorage evaluations, is the anchorage free of smic conditions?	Yes

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Seismic Walkdown Checklis	t (SWC)	Status: Y N U
Equipment ID No.:		· .
Equipment Class:	(21) Tanks and Heat Exchangers	
Equipment Description:	AUGMENTED SPENT FUEL POOL HEAT EXCHANGER(	NN02-C)
Interaction Effects		
7. Are soft targets free fr	om impact by nearby equipment or structures?	Yes
	ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?	Yes
9. Do attached lines hav	e adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of ismic interaction effects?	Yes
Other Adverse Conditions		
•	nd found no adverse seismic conditions that could afety functions of the equipment?	Yes

## **Comments**

See Augmented Spent Fuel Pool Cooling System Qualification. C-1302-251-5320-009, Dated 6/11/1984.

	Man S End		
Evaluated by:	Mark Etre	Date:	10/10/12
	) - R		· · · · · · · · · · · · · · · · · · ·
	Sun Bern Seth Baker		10/10/12

Status:	V	N L
Status.	I	

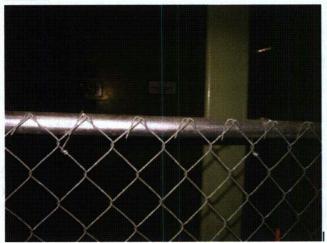
# Seismic Walkdown Checklist (SWC)

Equipment ID No.: H-18-1C

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: AUGMENTED SPENT FUEL POOL HEAT EXCHANGER(NN02-C)

#### **Photos**





MG\_1246

MG\_1247



MG\_1248

Status: Y N U

Seismic Wa	kdown C	Checklist (	SWC)
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Equipment ID No.: H-21-1A	
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: CONTAINMENT SPRAY SYS HEAT EXCHANGER 1-1	
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area): RB, 23.00 ft, 13	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment of SWEL. The space below each of the following questions may be used to record the results of judgment findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
5. Is the anchorage configuration consistent with plant documentation? (Note:	Yes
This question only applies if the item is one of the 50% for which an anchorage	163
configuration verification is required.)	
6 Pasad on the above anchorage evaluations, is the anchorage free of	Vaa
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

J

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	H-21-1A	
· · · · · · · · · · · · · · · · · · ·	(21) Tanks and Heat Exchangers	
Equipment Description:	CONTAINMENT SPRAY SYS HEAT EXCHANGER 1-1	
Interaction Effects		
7. Are soft targets free fro	m impact by nearby equipment or structures?	Yes
• •	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment?	Yes
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
	ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
Other Adverse Conditions		
•	d found no adverse seismic conditions that could ety functions of the equipment?	Yes
Comments		

Supports are consistent with Calculation C-1302-241-E310-107 Rev 0

Surface Oxidation on Bolts at the Base Plates. The degraded bolts had previously been identified in 2000 and is being tracked by IR 1403183. Gusset plates were added to the Heat Exchanger base to make up for the deficient bolts. The gusset plate modifications are detailed in Calculation C-1302-241-E310-107 Rev 0 Movable security barrier adjacent to the Heat Exchanger is chained to the column and chalked.

See Seismic Qualification SQ-OC-H-21-001A Rev 0

Evaluated by:	Man S The Mark Etre	Date:	10/10/12
	Sun Bun Seth Baker		10/10/12

		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	H-21-1A	
Equipment Class:	(21) Tanks and Heat Exchangers	
Equipment Description:	CONTAINMENT SPRAY SYS HEAT EXCHANGER 1-1	

#### **Photos**



MG\_0704



MG\_0711

MG\_0706



MG\_0720

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: IP-4	
Equipment Class: (14) Distribution Panels	,
Equipment Description: 120VAC INSTRUMENT PANEL 4 - 208/120V,3PH,4W	
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area): RB, 23.00 ft, 12	·
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of ec SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comm	of judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: IP-4	
Equipment Class: (14) Distribution Panels	
Equipment Description: 120VAC INSTRUMENT PANEL 4 - 208/120V,3PH,4W	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and	Yes
masonry block walls not likely to collapse onto the equipment?	
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10 Board on the above asigmic interaction evoluctions, is equipment free of	Vee
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could	Yes
adversely affect the safety functions of the equipment?	
· · · · · · · · · · · · · · · · · · ·	
<u>Comments</u>	
See Seismic Qualification SQ-OC-IP-4, Rev 000	
Verification of anchorage by feeling bolts in Unistrut	
Calculation C-1302X-322C-A06 qualifies the Oyster Creek safety-related masonry walls for	or seismic to address
NRC IE Bulletin 80-11.	
m. 1 1 EST	
Evaluated by: Date: Date:	10/10/12
Evaluated by: Mark Etre Date:	
Seth Baker	10/10/12

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Seismic Walkdown Checklist	(SWC) Status: Y N L
Equipment ID No.:	IP-4
Equipment Class:	(14) Distribution Panels
Equipment Description:	120VAC INSTRUMENT PANEL 4 - 208/120V,3PH,4W

**Photos** 





MG\_0883



MG\_0885

MG\_0884

nic Walkdown Checklist	(SWC)		Status: Y
Equipment ID No.:	IP-4	· · ·	
	(14) Distribution Panels	s	
Equipment Description:		- T PANEL 4 - 208/120V,3PH,4W	
SEWS		T   / (()     + - 200/1200,01   1,400	
	·		
EBASCO SERVICES INCORP Two World Trade Center, New York, N.Y. 100-		EBASCO	
	April 29, 1981		
· .			
GPU Services Incorpora Attention: Mr. Leon Ga 100 Interpace Parkway Parsippany, NJ 07054	ited Iríbian		
Dear Leon:			
Re: OYSTER CREEK NUCL FINAL SUBMITTAL O EVALUATION CALCUL	F MASONRY WALL		
poore and it antimide 0	gether with this letter,20 v. f computer output. This wil -evaluation of the Safety-Re RC IE Bulletin 80-11.		
Should you have any qu . please do not hestitate	estions regarding the calcula a to call. We will be glad t	ations and sketches, to help.	
	Very truly yours	s,	
	8 Oder	by an	
	E Odar Assistant Chief		
GW:dl			
cc: K D Chiu G Wu			
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C1302X322CA06 VOL 1, 19810427, REEVALUATION OF CONCRETE MASONRY WALL NRC IE BULLETIN 80-11 GENERAL

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: IT-4A	
Equipment Class: (4) Transformers	<u> </u>
Equipment Description: TRANSFORMER FROM MCC 1A2-460V TO IP-4	
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area): RB, 23.00 ft, 12	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equ SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comme	judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	IT-4A	
Equipment Class:	(4) Transformers	
Equipment Description:	TRANSFORMER FROM MCC 1A2-460V TO IP-4	19199 -
Interaction Effects		
7. Are soft targets free fro	m impact by nearby equipment or structures?	Yes
	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment?	Yes
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
9. Do allached intes have	adequate heribility to avoid damage?	165
10. Based on the above se	sismic interaction evaluations, is equipment free of	Yes
	smic interaction effects?	
Other Adverse Conditions		
•	nd found no adverse seismic conditions that could	Yes
adversely affect the sa	fety functions of the equipment?	
· .		
Comments See Seismic Qualification SQ-		
Calculation C-1302X-322C-A0 NRC IE Bulletin 80-11	6 qualifies the Oyster Creek safety-related masonry wal	s for seismic to address
m. I	1 est	
Evaluated by:	Mark Etre Date	: 10/10/12
So	Mark Etre Date	10/10/12

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	Status: Y N L
Seismic Walkdown Checklist	(SWC)
Equipment ID No.:	IT-4A
Equipment Class:	(4) Transformers
Equipment Description:	TRANSFORMER FROM MCC 1A2-460V TO IP-4

#### **Photos**





MG\_0888

MG\_0891



MG\_0893

N U

Seism	ic Walkdown Checklist	(SWC)	Status: Y
	Equipment ID No.:	IT-4A	
	Equipment Class:	(4) Transformers	
	Equipment Description:	TRANSFORMER FROM MCC 1A2-460V TO IP-4	
SQUC	SEW		
	EBASCO SERVICES INCORPO		
<b>:</b>	Two World Trade Center, New York, N.Y. 1004	6	

#### April 29, 1981

GPU Services Incorporated Attention: Mr. Leon Garibian 100 Interpace Parkway Parsippany, NJ 07054

Dear Leon:

Re: OYSTER CREEK NUCLEAR STATION FINAL SUBMITTAL OF MASONRY WALL EVALUATION CALCULATION BOOKS

I am sending to you together with this letter, 20 volumes of calculation books and 11 volumes of computer output. This will mark the end of our involvement for the re-evaluation of the Safety-Related Concrete Masonry Walls as required by NRC IE Bulletin 80-11.

Should you have any questions regarding the calculations and sketches, please do not hestitate to call. We will be glad to help.

Very truly yours,

Ë Jahr toy gu E Odar

Assistant Chief Civil Engineer

GW:d1

cc: K D Chiu G Wu

C1302X322CA06 VOL 1, 19810427, REEVALUATION OF CONCRETE MASONRY WALL NRC IE BULLETIN 80-11 GENERAL

Status:	Υ	l N	U
olalus.			0

# Seismic Walkdown Checklist (SWC)

Equipment ID No.: LI-18-170	
Equipment Class: (18) Instruments on Racks	
Equipment Description: SKIMMER SURGE TANK'A'FUEL POOL LEVEL INDICAT	OR
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area): RB, 119.00 ft, 20	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other cor	s of judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: LI-18-170	
Equipment Class: (18) Instruments on Racks	
Equipment Description: SKIMMER SURGE TANK'A'FUEL POOL LEVEL INDICATO	DR
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
<u>Comments</u> In-Line/Free Standing	
See VM-OC-0157 Rev 4	
Dresser Part Number 60-1379AS-02I 15	
Evaluated by: Mark Etre Date: 10	0/10/12
Simble Seth Baker 10	0/10/12

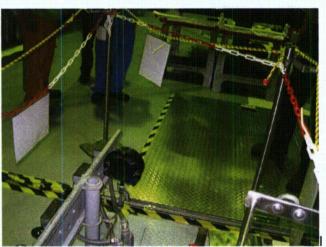
Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	LI-18-170
Equipment Class:	(18) Instruments on Racks
Equipment Description:	SKIMMER SURGE TANK'A'FUEL POOL LEVEL INDICATOR

**Photo** 





MG\_1229

MG\_1231

Status: Y N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No.: LIS-RE0018A	
Equipment Class: (18) Instruments on Racks	
Equipment Description: REACTOR VESSEL LOW LEVEL INDICATING SWITCH	
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area):RB, 51.00 ft, 15	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment SWEL. The space below each of the following questions may be used to record the results of judgme findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
· :	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
: 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage	Yes
configuration verification is required.)	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: LIS-RE0018A	
Equipment Class: (18) Instruments on Racks	. <u></u>
Equipment Description: REACTOR VESSEL LOW LEVEL INDICATING SWITCH	
Interaction Effects	X
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of	Yes
potentially adverse seismic interaction effects?	
	с.
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
Comments	
See SQ-OC-RK01 Rev 02	
mIIET	
Evaluated by: Date: _1	0/15/12
Evaluated by: Mark Etre Date: 1	0/15/12
Setti Baker	0/15/12

		· ·	
Status:	Υ	Ν	U

# Seismic Walkdown Checklist (SWC) Equipment ID No.: LIS-RE0018C Equipment Class: (18) Instruments on Racks Equipment Description: REACTOR VESSEL LOW LEVEL INDICATING SWITCH Project: Oyster Creek SWEL Location (Bldg, Elev, Room/Area): RB, 51.00 ft, 15 Manufacturer/Model: Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% Yes of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Yes 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Yes 4. Is the anchorage free of visible cracks in the concrete near the anchors? Yes 5. Is the anchorage configuration consistent with plant documentation? (Note: Yes This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: LIS-RE0018C	
Equipment Class: (18) Instruments on Racks	
Equipment Description: REACTOR VESSEL LOW LEVEL INDICATING SWITCH	
Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions 11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
<u>Comments</u> See SQ-OC-RK01 Rev 02	
Sun Ber Seth Baker	10/15/12

tatus: Y N U

Yes

Yes

Yes

Yes

Yes

Yes

Seismic Walkdown Checklist (SWC)	s: Y N
Equipment ID No.: LS-53B	
Equipment Class: (18) Instruments on Racks	
Equipment Description: SPENT FUEL POOL LOW WATER LEVEL SWITCH	
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area): RB, 119.00 ft, 20	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipme SWEL. The space below each of the following questions may be used to record the results of judgr findings. Additional space is provided at the end of this checklist for documenting other comments.	ments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Y
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Y
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y

Status:	Y	Ν	U

Seismic Walkdown Checklist (SWC)	
Equipment ID No.: LS-53B	
Equipment Class: (18) Instruments on Racks	
Equipment Description: SPENT FUEL POOL LOW WATER LEVEL SWITCH	
Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions 11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
<u>Comments</u> See VM-OC-5740 Rev 1	
Mercoid PG-3-P1	
Evaluated by: Mark Etre Date: 10/10/12          Mark Etre       Date: 10/10/12         Mark Etre       Date: 10/10/12	

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	LS-53B	
Equipment Class:	(18) Instruments on Racks	
Equipment Description:	SPENT FUEL POOL LOW WATER LEVEL SWITCH	

# **Photos**





MG\_1237

MG\_1238

Seism	ic Walkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:	LS-862-10B	
	Equipment Class:	(0) Other	
	Equipment Description:	LO-LO LEVEL (START NORMAL PUMP) ON TANK	Г-39-003
	Proje	ct: Oyster Creek SWEL	
Locatio	on (Bldg, Elev, Room/Are	a): DG BLDG, 23.00 ft, 01	
	Manufacturer/Mod	el:	
This ch SWEL finding	The space below each s. Additional space is pr	hecklist ocument the results of the Seismic Walkdown of an ite of the following questions may be used to record the re ovided at the end of this checklist for documenting othe	esults of judgments and
Ancho		ion verification required (i.e., is the item one of the 50%	% No
1.	of SWEL items requirin		
2.	Is the anchorage free o	bent, broken, missing or loose hardware?	Not Applicable
3.	Is the anchorage free o	corrosion that is more than mild surface oxidation?	Not Applicable
4.	Is the anchorage free o	visible cracks in the concrete near the anchors?	Not Applicable
5.		uration consistent with plant documentation? (Note: es if the item is one of the 50% for which an anchorag n is required.)	Not Applicable e
6.	Based on the above an potentially adverse seis	chorage evaluations, is the anchorage free of mic conditions?	Yes

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м. С	·	Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	LS-862-10B	
Equipment Class:	(0) Other	·
Equipment Description:	LO-LO LEVEL (START NORMAL PUMP) ON TANK T-39-	003
Interaction Effects		
7. Are soft targets free fro	m impact by nearby equipment or structures?	Yes
	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment?	Yes
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
	ismic interaction evaluations, is equipment free of smic interaction effects?	Yes
•	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes
Comments		
See SQ-OC-M-39-001 Rev 06		
In-Line equipment		
Evaluated by:	Mark Etre Date: 1	0/10/12
So	Seth Baker 1	0/10/12

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	LS-862-10B
Equipment Class:	(0) Other
Equipment Description:	LO-LO LEVEL (START NORMAL PUMP) ON TANK T-39-003

# **Photo**



IMG\_1141

Seismic Walkdown Checklist (SV	NC)	Status: Y N U
Equipment ID No.: LS	S-862-10C	
Equipment Class: (0		
Equipment Description: H	I-HI LEVEL(PUMP CUT-OFF) ON TANK T-39-003	
Project:	Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area):	DG BLDG, 23.00 ft, 01	an a
Manufacturer/Model:		
Instructions for Completing Che	cklist	
SWEL. The space below each of t findings. Additional space is provid	ument the results of the Seismic Walkdown of an item the following questions may be used to record the res ded at the end of this checklist for documenting other	ults of judgments and
Anchorage		N.
<ol> <li>Is anchorage configuration of SWEL items requiring st</li> </ol>	verification required (i.e., is the item one of the 50% uch verification)?	No
2. Is the anchorage free of be	ent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of co	prrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of vi	sible cracks in the concrete near the anchors?	Not Applicable
	ation consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage s required.)	Not Applicable
<ol><li>Based on the above anchor potentially adverse seismic</li></ol>	prage evaluations, is the anchorage free of conditions?	Yes

quipment ID No.: Equipment Class: ment Description: Effects Fort targets free fro overhead equipme onry block walls no ttached lines have	(0) Other HI-HI LEVE om impact by ent, distributio ot likely to col e adequate fle	EL(PUMP C nearby equ on systems, llapse onto t exibility to av	ipment or str ceiling tiles a the equipmer void damage	uctures? Ind lighting, a ht?	and	· · · · · · · · · · · · · · · · · · ·	Yes Yes
Equipment Class: ment Description: Effects soft targets free fro overhead equipme onry block walls no ttached lines have	(0) Other HI-HI LEVE om impact by ent, distributio ot likely to col e adequate fle	EL(PUMP C nearby equ on systems, llapse onto t exibility to av	ipment or str ceiling tiles a the equipmer void damage	uctures? Ind lighting, a ht?	and	· · · · · · · · · · · · · · · · · · ·	Yes
ment Description: ffects for targets free from overhead equipments onry block walls not ttached lines have ttached lines have	HI-HI LEVE om impact by ent, distributio ot likely to col e adequate fle eismic interac	nearby equ on systems, llapse onto t exibility to av	ipment or str ceiling tiles a the equipmer void damage	uctures? Ind lighting, a ht?	and		Yes
Effects soft targets free fro overhead equipme onry block walls no ttached lines have	om impact by ent, distributio ot likely to col e adequate fle eismic interac	nearby equ on systems, llapse onto t exibility to av	ipment or str ceiling tiles a the equipmer void damage	uctures? Ind lighting, a ht?	and		Yes
oft targets free fro overhead equipme onry block walls no ttached lines have	ent, distributio ot likely to col e adequate fle eismic interac	on systems, llapse onto t exibility to av	ceiling tiles a the equipmer void damage tions, is equip	nd lighting, and tighting, and tighting, and tighting, and the tighting of the			Yes
onry block walls no ttached lines have d on the above se	ot likely to col e adequate fle eismic interac	llapse onto t exibility to av	the equipmer void damage <sup>r</sup> tions, is equip	nt? ?			Yes
d on the above se	eismic interac	ction evaluat	tions, is equip				
				ment free o			
					f		Yes
se Conditions	nd found no a	adverse seis	smic condition	ns that could			Yes
rsely affect the sa							
M-39-001 Rev 06	; ;						
ment			· ·				
Man	S End	Mark E	Etre		Date:	10/10/12	
. )	nB	ur se	eth Baker			10/10/12	
	oment		ment Manf & Eber Mark I Mark I	oment	ment Manf S Ebe Mark Etre	ment Manf S Ever Mark Etre Date:	ment 

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Status:	Y	N	U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	LS-862-10C
Equipment Class:	(0) Other
Equipment Description:	HI-HI LEVEL(PUMP CUT-OFF) ON TANK T-39-003

# **Photo**



IMG\_1141

Status:	Υ	Ν	U

Seismic Walkdown Checklist (SWC)	
Equipment ID No.: LSP-1A2	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: LOCAL SHUTDOWN PANEL- USS 1A2 PUMP/BREAKER CONTR	OL
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area): RB, 23.00 ft, 16	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment SWEL. The space below each of the following questions may be used to record the results of judgm findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
	100
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
	100
·	
5. Is the anchorage configuration consistent with plant documentation? (Note:	Yes
This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	
6. Based on the above anchorage evaluations, is the anchorage free of	Yes
potentially adverse seismic conditions?	100

Seismic	c Walkdown Checklist	(SWC)			Status: 🗋	YNU
	Equipment ID No.:	LSP-1A2				
			ntation and Control	Panels and Cabinets		
E	Equipment Description:				ER CONTROL	
	tion Effects					
7.	Are soft targets free fro	m impact by ne	earby equipment or	structures?		Yes
	Are overhead equipme masonry block walls no					Yes
9.	Do attached lines have	adequate flexi	bility to avoid dama	ge?		Yes
10.	Based on the above se potentially adverse seis		-	uipment free of		Yes
	Adverse Conditions					
	Adverse Conditions Have you looked for ar adversely affect the sa			ions that could		Yes
Comme See SQ	ents 2-OC-LSP-1A2 Rev 02					
Evaluat	red by:	's ers TBu	Mark Etre	Date:	10/10/12	
	So	r Bu	Seth Baker		10/10/12	

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Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	LSP-1A2
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	LOCAL SHUTDOWN PANEL- USS 1A2 PUMP/BREAKER CONTROL

#### **Photos**



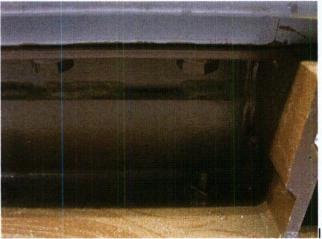
MG\_1009



MG\_1011







MG\_1015

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: LT-RE0005B	
Equipment Class: (18) Instruments on Racks	<u> </u>
Equipment Description: REACTOR VESSEL LOW WATER LEVEL REAC	TOR SCRAM
Project: Oyster Creek SWEL	a dan sa addition a sa addi
Location (Bldg, Elev, Room/Area): RB, 51.00 ft, 17	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of a SWEL. The space below each of the following questions may be used to record t findings. Additional space is provided at the end of this checklist for documenting	he results of judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the of SWEL items requiring such verification)?</li> </ol>	e 50% Yes
of SWEL items requiring such verification)?	
	Yaa
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation	n? Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
	100
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Not This question only applies if the item is one of the 50% for which an anchorage</li> </ol>	
configuration verification is required.)	лауе
	·
6. Based on the above anchorage evaluations, is the anchorage free of	Yes
potentially adverse seismic conditions?	

Seism	ic Walkdown Checklist	t (SWC)	Status: Y N
	Equipment ID No.:		
		(18) Instruments on Racks	
		REACTOR VESSEL LOW WATER LEVEL REACTOR	R SCRAM
	ction Effects		
7.	Are soft targets free fro	om impact by nearby equipment or structures?	Yes
8.		ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?	Ye
9.	Do attached lines have	e adequate flexibility to avoid damage?	Ye
10.		eismic interaction evaluations, is equipment free of smic interaction effects?	Ye
	Adverse Conditions		
· 11.	-	nd found no adverse seismic conditions that could ifety functions of the equipment?	Ye
		· ·	
Comm See S	<u>tents</u> Q-OC-RK02 Rev 00	· · · ·	-
Horizo	ntal Hairline linear indicans of ACI-349 guideling	ations (Cracks) on Drywell exterior behind RK02. Accep	table per review of the
guideli		1 1 25	
<u> </u>	ated by:	Mark Etre Date	e: 10/10/12

19 19	Status:	Y N U
Seismic Walkdown Checklist (S	WC)	
Equipment ID No.: M	I-39-1	
Equipment Class: (1	17) Engine-Generators	
Equipment Description: E	MERGENCY DIESEL GENERATOR #1	
Project:	Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area):	DG BLDG, 23.00 ft, 01	
Manufacturer/Model:		
Instructions for Completing Che	cklist	
SWEL. The space below each of	ument the results of the Seismic Walkdown of an item of equipment the following questions may be used to record the results of judgme ded at the end of this checklist for documenting other comments.	
Anchorage 1. Is anchorage configuration of SWEL items requiring s	n verification required (i.e., is the item one of the 50% such verification)?	Yes
2. Is the anchorage free of b	ent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of c	orrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of vi	isible cracks in the concrete near the anchors?	Yes
5. Is the anchorage configura	ation consistent with plant documentation? (Note:	Yes

5. Is the an This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

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

Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: M-39-1	
Equipment Class: (17) Engine-Generators	
Equipment Description: EMERGENCY DIESEL GENERATOR #1	
Interaction Effects	· · · ·
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
Comments	
See SQ-OC-M-39-001 Rev 06	
C-1302-157-5320-006, Rev. 0 qualifies the unanchored Diesels.	
Base Corrosion is being tracked by the Plant.	
Evaluated by: Mark Etre Date: 1	0/10/12
) - Burg	0/10/12
	·

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		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	M-39-1	
Equipment Class:	(17) Engine-Generators	
Equipment Description:	EMERGENCY DIESEL GENERATOR #1	

#### **Photo**



Status:	Υ	Ν	U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.: P-18-1B	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: SPENT FUEL POOL COOLING PUMP (NN01-B)	
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area): RB, 75.00 ft, 21	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipm SWEL. The space below each of the following questions may be used to record the results of judg findings. Additional space is provided at the end of this checklist for documenting other comments	gments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
·	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
	100
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage</li> </ol>	Yes
configuration verification is required.)	
6. Based on the above anchorage evaluations, is the anchorage free of	Yes
potentially adverse seismic conditions?	

Status: Y	N	U
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Seismic Walkdown Checklist (SWC)	
Equipment ID No.: P-18-1B	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: SPENT FUEL POOL COOLING PUMP (NN01-B)	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
Comments	
See drawing W-65107-R4	
Evaluated by: Mark Etre Date: 10/10/12          Mark Etre       Date:       10/10/12	

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Seisinic Walkuowii Checkiist	(5110)	
Equipment ID No.:	P-18-1B	
Equipment Class:	(5) Horizontal Pumps	
Equipment Description:	SPENT FUEL POOL COOLING PUMP (NN01-B)	
<u>Photo</u>		



IMG\_1255

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: P-18-1C	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: AUGMENTED SPENT FUEL POOL PUMP (NN01-C)	
Project: Oyster Creek SWEL	<u> </u>
Location (Bldg, Elev, Room/Area): RB, 75.00 ft, 21	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of e SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other com	of judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdown Checklist		Status: Y N U
Equipment ID No.:	P-18-1C	
Equipment Class:	(5) Horizontal Pumps	
Equipment Description:	AUGMENTED SPENT FUEL POOL PUMP (NN01-C)	
Interaction Effects		
7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes
8. Are overhead equipme	ent, distribution systems, ceiling tiles and lighting, and	Yes
masonry block walls no	ot likely to collapse onto the equipment?	
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other Adverse Conditions		
•	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes
Comments		·
	ool Cooling System Qualification. C-1302-251-5320-008, Re	v 1

	Man S End			
Evaluated by:	Mark Etre	Date:	10/10/12	
	Sun Bern Seth Baker	· · ·	10/10/12	

C-144

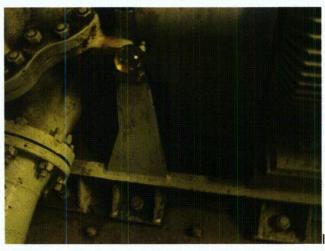
Status:	Y	N	U
orarao.			-

# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	P-18-1C
Equipment Class:	(5) Horizontal Pumps
Equipment Description:	AUGMENTED SPENT FUEL POOL PUMP (NN01-C)

#### **Photos**





MG\_1290

MG\_1291



MG\_1293

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: P-20-1A	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: CORE SPRAY PUMP NZ01-A	
Project: Oyster Creek SWEL	
Location (Bldg, Elev, Room/Area): RB, 19.00 ft, 18 Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of e SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other com	of judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

. .

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: P-20-1A	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: CORE SPRAY PUMP NZ01-A	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of	Yes
potentially adverse seismic interaction effects?	
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
Comments	
See Drawing X-8X21AL86X6-A	
See Drawing 4074-5 Sheet 2	
See Seismic Qualification SQ-OC-P-20-001A Rev 1	
miller	
Evaluated by: Mark Etre Date: _1	10/10/12
Evaluated by: Mark Etre Date: 1	10/10/12
Seur Daker	

		Status:	Υ	Ν	U
Seismic Walkdown Checklist	(SWC)				
Equipment ID No.:	P-20-1A				
Equipment Class:	(5) Horizontal Pumps				
Equipment Description:	CORE SPRAY PUMP NZ01-A				

# **Photos**



MG\_1021

MG\_1023



MG\_1024

