EQ	REV 10	AP-961
1.0 ENTRY CONDITIONS		FORMATIO
IF an earthquake is suspected.		Holder # 1242
AND seismic recorder indicates a	a seismic event has	taken place.
AND SETSINC RECORDER INDICALES (a seismic event has	taken place,

2.0 IMMEDIATE ACTIONS

NOTE

There are no immediate actions for this procedure.

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3.0 FOLLOW-UP ACTIONS

ACTIONS

3.1 ____ Notify personnel of plant conditions.

- DETAILS
- ____ STA

• ____ Plant Operators

- NSM (evaluate plant conditions for potential entry into the Emergency Plan)
- 3.2 _____ IF the Rx is NOT critical. THEN GO TO Step 3.7 in this procedure.
- 3.3 <u>IF</u> > 1 asymmetric control rod exists. <u>THEN</u> trip the Rx and **CONCURRENTLY PERFORM** EOP-2. Vital System Status Verification, beginning with Step 2.1
- 3.4 ____ Verify quadrant power tilt is within limits.

See COLR.

<u>IF</u> quadrant power tilt is <u>NOT</u> within limits. <u>THEN</u> trip the Rx and **CONCURRENTLY PERFORM** EOP-2. Vital System Status Verification. beginning with Step 2.1

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EQ



ACTIONS

DETAILS

Verify imbalance within 3.5 limits.

> See OP-103D, Withdrawal Limit Curves.

<u>IF</u> imbalance is <u>NOT</u> within limits. THEN trip the Rx and CONCURRENTLY PERFORM EOP-2. Vital System Status Verification. beginning with Step 2.1

- 3.6 to plant equipment, THEN start a controlled plant shutdown.
- IF vibration was NOT due CONCURRENTLY PERFORM AP-510. Rapid Power Reduction, beginning with Step 3.1

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ACTIONS

3.7 ____ Verify RCS integrity.

DETAILS

• Monitor available parameters:

____ RCS PRESS

____ PZR level

____ MUT level

____ RB Sump level

____ RCS level

 Motify PPO to monitor WD-29-LI "AUX. BLDG. SUMP" level (95 ft AB on "RADWASTE CONTROL PANEL")

IF RCS integrity is lost.
THEN CONCURRENTLY PERFORM
AP-520. Loss of RCS
Coolant or Pressure.

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ACTIONS

DETAILS

	Explosive (containment	<u>CA</u> conditions may be prese t has been lost.	<u>UTION</u> ent in t	he TB if main ge	nerator H _z
3.8 .	Verify conta	y main generator H₂ inment.	1 2	Review main gen pressure. Determine if No charger is unav	erator H₂ n-1E batter ailable.
	<u>IF</u> mai contar lost. <u>AND</u> th Ma press Ma or <u>THEN</u> p	in generator H₂ inment is degraded or ne following exist: ain generator H₂ sure exists ain generator is not n line burge the main ator.	12	<u>IF</u> TB evacuatio <u>THEN</u> perform th <u>Notify plan</u> over PA. <u>Repeat PA a</u> Notify SPO to C PERFORM EOP-14. Station Blackou Purging.	n is required, e following: t personnel nnouncement. ONCURRENTLY Enclosure 14, t Main Generator
3.9 .	Verify recirc pumps <u>IF</u> the recirc pumps <u>THEN</u> s	y BWST is not in culation with SF e BWST is in culation with SF stop recirculation.	12	Stop recirculat Notify PPO to e "BWST Supply Is (119 ft AB by S	ion. nsure SFV-13 o" is closed FPs).
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ACTIONS

3.10 ____ Notify Chemistry to sample for fuel failure.

DETAILS

• ____ RCS

• ____ SF pool

3.11 ____ Verify SF pool integrity.

• ___ Observe SF pool level

 Notify PPO to inspect SF pool liner telltale drains (95 ft AB MUP cubicles).

<u>IF</u> SF pool leakage has increased, <u>THEN</u> contact TSC for guidance.

3.12 <u>IF</u> refueling canal level is lowering, <u>THEN</u> CONCURRENTLY PERFORM AP-1080, Refueling Canal Level Decrease, beginning with Step 3.1

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ACTIONS

3.13 <u>IF</u> at any time, it becomes necessary to manually energize an electrical bus, <u>THEN</u> ensure bus is capable of being energized.

DETAILS

- Notify Maintenance to inspect switchgear and internals for damage.
- Ensure DC power and protective relaying is available.

NOTE

Seismic activity may result in spurious operation of the sudden pressure relays for the Off-Site Power Transformer or the BEST resulting in a loss of off-site power.

- 3.14 ____ Verify ES 4160V buses are energized.
 - _____ <u>IF</u> either ES 4160V bus is <u>NOT</u> energized. <u>THEN</u> CONCURRENTLY PERFORM AP-770, Diesel Generator Actuation, beginning with Step 3.1

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Applicable carry-over steps:

3.13 IF it becomes necessary to manually energize an electrical bus...

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ACTIONS

DETAILS

			NOTE		
Con pla	sider spur nt alarms	rious actuation due	to seism	nic activity when	n evaluating
3.15	Review a paramete	available plant ers.	•	Review sump le monitors and ta possible leaks	vels. radiation ank levels for
			•	Observe Contro	Room TEMP.
			•	Review system s alarms. lockout configurations from relay chat	status relative t ts and that may result tter.
				See Enclosure Spurious Alarms	1, Potential s.
			•	Review contain	ment integrity.
	primary	plant walk down.	wa: "R/	ste gas compress ADWASTE CONTROL I _ WDP-1A _ WDP-1B	or (95 ft AB on PANEL"):
			•_	WDP-1B Walk down prim structures and determine if d safe operation	ary plant equipment to amage inhibits th of plant
				equipment.	
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Applicable carry-over steps:

3.13 IF it becomes necessary to manually energize an electrical bus...

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ACTIONS

3.17 ____ Notify SPO to perform a secondary plant walk down.

DETAILS

- ____ Observe H_2 tank for possible leaks.
- Observe FSTs for leaks.

____ FST-1A

____ FST-1B

- Determine if the following equipment is accessible and manual operation is <u>NOT</u> inhibited:
 - _____ ARV-48 "B CONDENSER VACUUM BKR" (119 ft TB Above C Waterbox)
 - _____ ARV-49 "A CONDENSER VACUUM BKR" (119 ft TB Above B Waterbox)

 - MSV-25 "A OTSG Atmospheric Dump" (119 ft IB)
 - MSV-26 "B OTSG Atmospheric Dump" (119 ft IB)
 - ____ EFV-36 "EFW & AFW Suction Iso From Hotwell" (95 ft TB between C and D inlet waterboxes)
- Verify proper operation of the inservice IA dryer (95 ft TB):
 - ____ IADR-1

____IADR-2

 Walk down secondary plant structures and equipment to determine if damage inhibits the safe operation of plant equipment.

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3.13 IF it becomes necessary to manually energize an electrical bus...

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ACTIONS

3.18 ____ Review current plant activities for any actions that may have caused the vibrations.

- 3.19 ____ Evaluate results of plant walk downs and initiate necessary actions.
- <u>IF</u> required equipment is <u>NOT</u> accessible or manual operation is inhibited. <u>THEN</u> initiate action to establish access and restore manual operation capability.

DETAILS

- <u>IF</u> an IA dryer is <u>NOT</u> available. <u>THEN</u> initiate action to periodically blow down air receivers.
- <u>IF</u> Control Room TEMP is <u>NOT</u> between 70 and 80°F. <u>THEN</u> initiate action to operate CHHE-1A or CHHE-1B as required.
- <u>IF</u> power is <u>NOT</u> available to a waste gas compressor, <u>THEN</u> consider aligning WG header to AB ventilation system based on WG header PRESS.

IE IB is NOT accessible due to high TEMP. AND manual operation of ADVs is required. <u>THEN</u> notify SPO to open IB doors to TB (119 ft TB):

____ H-201

____ H-202

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3.13 IF it becomes necessary to manually energize an electrical bus...

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ACTIONS

3.20 _____ IE RCS cooling is by Nat Circ. THEN ensure adequate secondary inventory.

DETAILS

- <u>IF</u> FST-1A is <u>NOT</u> available, <u>THEN</u> begin cooldown within 8 hours to ensure adequate secondary inventory.
- Notify SPO to open EFV-36 "EFW & AFW Suction Iso From Hotwell" (95 ft TB between C and D inlet waterboxes).
- ____<u>IF</u> EFV-36 cannot be opened. <u>THEN</u> notify TSC.
- 3.21 _____ Notify MNPO to determine subsequent actions and additional surveillance requirements based on results of plant reviews and follow-up action.
- 3.22 _____ Notify I&C Supervisor to perform PT-378. Functional Testing and Calibration of the Triaxial Time-History Accelographs and Triaxial Seismic Switch. Section 4.2. Action Following a Seismic Event.

3.23 ____ EXIT this procedure.

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5.0 ENCLOSURE 1 POTENTIAL SPURIOUS ALARMS

		1
POINT	EQUIPMENT DESCRIPTION	CONDITION
0003	EMERG NUCLEAR SERVICE SEA WATER PP A	LOSS OF DC POWER
0008	EMERG NUCLEAR SERVICE SEA WATER PP B	LOSS OF DC POWER
0012	DECAY HEAT SEA WATER PP A	LOSS OF DC POWER
0013	DECAY HEAT SEA WATER PP A	OVERLOAD
0016	DECAY HEAT SEA WATER PP B	LOSS OF DC POWER
0017	DECAY HEAT SEA WATER PP B	OVERLOAD
0059	REACTOR BUILDING SPRAY PUMP A	OVERLOAD
0060	REACTOR BUILDING SPRAY PUMP B	OVERLOAD
0061	REACTOR BUILDING SPRAY PUMP A	LOSS OF DC POWER
0062	REACTOR BUILDING SPRAY PUMP B	LOSS OF DC POWER
0117	CORE FLOOD TANK B	LEVEL HIGH
0137	CINCULATING WATER PUMP A	DISCH PRESS HIGH
0212	DECAY HEAT CLOSED CYCLE PUMP A	LOSS OF DC POWER
0213	DECAY HEAT CLOSED CYCLE PUMP B	LOSS OF DC POWER
0223	DECAY HEAT REMOVAL PUMP A	OVERLOAD
0224	DECAY HEAT REMOVAL PUMP B	OVERLOAD
0242	DECAY HEAT REMOVAL PUMP A	LOSS OF DC POWER
0556	4160V ES BUS A	PARALLEL FEED
0559	BREAKER 3206	LOSS OF DC POWER
0563	UNIT AUX XFMR 3 BREAKER 3207	LOSS OF DC POWER
0566	UNIT AUX XFMR 3 BREAKER 3208	LOSS OF DC POWER

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5.0 ENCLOSURE 1 POTENTIAL SPURIOUS ALARMS (CONT'D)

ALARM POINT	EQUIPMENT DESCRIPTION	CONDITION
0569	DIESEL GENERATOR A BREAKER 3209	LOSS OF DC POWER
0572	DIESEL GENERATOR B BREAKER 3210	LOSS OF DC POWER
0575	UNIT 1 BREAKER 3211	LOSS OF DC POWER
0578	UNIT 1 BREAKER 3212	LOSS OF DC POWER
0588	ES AUX XFMR B FEEDER BREAKER 3220	LOSS OF DC POWER
0590	ES AUX XFMR A FEEDER BREAKER 3221	LOSS OF DC POWER
0592	PLANT AUX XFMR 3 FEEDER BREAKER 3222	LOSS OF DC POWER
0609	ES BUS B BREAKER 3310	LOSS OF DC POWER
0612	ES BUS A BREAKER 3311	LOSS OF DC POWER
0646	4160V UNIT BUS A POT XFMR	TROUBLE
0650	4160V ES BUS A POT XFMR	TROUBLE
0652	4160V ES BUS B POT XFMR	TROUBLE
0654	480V ES BUS A POT XFMR	TROUBLE
0656	480V ES B POT XFMR	TROUBLE
0664	480V TURB AUX BUS B POT XFMR	TROUBLE
0670	480V PLANT AUX BUS 3 POT XFMR	TROUBLE
0672	480V HEATING AUX BUS 3 POT XFMR	TROUBLE
0673	ES MCC 3B BREAKER 3340	LOSS OF DC POWER
0674	ES MCC A1 BREAKER 3341	LOSS OF DC POWER
0677	ES MCC AB BREAKER 3361	LOSS OF DC POWER

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ALARM POINT	EQUIPMENT DESCRIPTION	CONDITION
0679	ES MCC AB BREAKER 3360	LOSS OF DC POWER
0713	GEN NEUT GND LOCK OUT RELAY	LOSS OF DC POWER
0714	STEP-UP XFMR/GEN DIFF LOCK OUT RELAY	LOSS OF DC POWER
0715	GEN DIFF LOCK OUT RELAY	LOSS OF DC POWER
0730	BACKUP ES XFMR MASTER TRIP LK\OT RLY	LOSS OF DC POWER
0897	STATION AIR COMPRESSOR A	OVERLOAD
0903	STATION AIR COMPRESSOR B	OVERLOAD
0309	INSTRUMENT AIR COMPRESSOR A	OVERLOAD
0915	INSTRUMENT AIR COMPRESSOR B	OVERLOAD
1032	MAKEUP PUMP 1A	LOSS OF DC POWER
1033	MAKEUP PUMP 1A	OVERLOAD
1039	MAKEUP PUMP 1B	OVERLOAD
1044	MAKEUP PUMP 1C	LOSS OF DC POWER
1045	MAKEUP PUMP 1C	OVERLOAD
1098	MAKEUP PUMP 1B	LOSS OF DC POWER
1099	MAKEUP PUMP 1B	OVERLOAD
1175	REACTOR TRIP LOCKOUT RELAY	LOSS OF DC POWER
1184	4160V ES BUS A CROSS TIE LOCKOUT RLY	LOSS OF DC POWER
1185	4160V ES BUS A CROSS TIE CIRCUIT	LOSS OF DC POWER
1188	4160V ES BUS B CROSS TIE LOCKOUT RLY	LOSS OF DC POWER
1189	4160V ES BUS B CROSS TIE CIRCUIT	LOSS OF DC POWER
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5.0 ENCLOSURE 1 POTENTIAL SPURIOUS ALARMS (CONT'D)

ALARM POINT	EQUIPMENT DESCRIPTION	CONDITION
1259	MOTOR DRIVEN EF PUMP A	LOSS OF DC POWER
1260	MOTOR DRIVEN EF PUMP A	OVERLOAD
1554	CNTRL COMPLX WATER CHILLER A CHHE-1A	LOSS OF DC POWER
1555	CNTRL COMPLX WATER CHILLER B CHHE-1B	LOSS OF DC POWER
1824	EMERG NUC SERV CCC PUMP A (SWP-1A)	OVERLOAD
1827	EMERG NUC SERV CCC PUMP B (SWP-1B)	OVERLOAD
1853	EMERG NUC SERV CCC PUMP A	LOSS OF DC POWER
1854	EMERG NUC SERV CCC PUMP B	LOSS OF DC POWER
1991	4160V RX AUX BUS POT XFMR	TROUBLE