Byron Station 1995 Annual Exercise November 15, 1995

EXERCISE CONTROL MANUAL

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BYRON 1995 GSEP EXERCISE NOVEMBER 15, 1995

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GENERAL INFORMATION

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<<< *** THIS IS AN EXERCISE *** >>>

SCOPE OF PARTICIPATION

DATE : Wednesday, November 15, 1995

TYPE : Daytime Exercise, Partial State Participation

PURPOSE : The purpose of this Exercise is to test the basic elements of the ComEd Generating Stations Emergency Plan (GSEP). The Exercise will include the mobilization of ComEd personnel and resources to verify their capability to respond to a simulated emergency.

OFFSITE AGENCY PARTICIPATION :

Partial Participation, State of Illinois

- Radiological Emergency Assessment Center
- Joint Public Information Center

Partial Participation, Ogle County, Illinois

Ogle County Emergency Operations Center

COMED FACILITIES ACTIVATED :

- Simulator Control Room
- TSC
- * OSC
- * Environs Teams
- * CEOF
- * EOF
 - JPIC

COMED FACILITIES NOT ACTIVATED : NONE

The exercise "Nuclear Duty Officer" will be notified of simulated events as appropriate on a real-time basis. The dispatch of exercise participants to the CEOF, Dixon EOF, and Dixon JPIC will be initiated by the exercise Nuclear Duty Officer. Exercise Participants will be prepositioned close the CEOF and EOF to permit the use of ComEd personnel from distant working locations.

ComEd will demonstrate the capability to make contact with contractors whose assistance would be required by the simulated accident situation, but will not actually incur the expense of using contractor support, except as pre-arranged specifically for the Exercise.

ComEd will arrange to provide actual transportation and communications support in accordance with existing agreements to the extent specifically prearranged for the Exercise. ComEd will provide unforeseen actual assistance only to the extent that resources are available and do not hinder the normal operation of the Company.

All of the events described in this Exercise are simulated.

Exercise Ground Rules

- 1. Take immediate actions to prevent or remedy an unsafe condition, regardless of the effect on exercise play. Participants are not permitted to enter actual contaminated or High Radiation areas to perform exercise-related work.
- 2. Take no actions that affect active or operating plant equipment. Use only mock equipment designated for the exercise.
- Data conflicts between the Control Room and Point History will be resolved by Lead Facility Controllers in favor of the exercise Point History.
- Participants and controllers are expected to lead and follow each communication with the phrase "THIS IS AN EXERCISE".
- 5. Participants are expected to use actual means of communications except for exerciserelated telephone numbers, response (simulation) cells, and other designated systems. Participants should make contact with those persons they feel necessary to their response, without regard to whether those persons are pre-designated as exercise participants. Vendors should be contacted for information only and to verify phone numbers. No exercise-related work is to be requested from vendors.
- Participants should follow all procedures and take expected actions to respond to the scenario. Participants should decide the level of documentation necessary to the situation; documents (Work Packages, Out of Services, RWPs, etc.) should be marked "FOR GSEP EXERCISE USE ONLY".
- All special-purpose (first aid, fire, hazmat, etc.) plant teams should be dispatched as needed.
- 8. Provide only information derived from the approved Exercise Manual, or approved by the appropriate Lead Facility Controller. **Do not improvise information**. Information will only be provided at the location where it would normally be available, following participant actions to obtain it. Information shall be provided in units appropriate to the measurements being read.
- Participants are required to have appropriate tools and equipment available at all work sites to be permitted to perform (simulate) the work. Parts must be verified to be available from Stores but shall not be removed from Stores.
- 10. Required chemistry and environmental samples shall be actually collected.
- 11. Controllers are not permitted to direct, prompt, or lead Participants, except through the use of designated exercise control messages. Controllers are permitted to question participants in order to gain information necessary to evaluate the exercise.

Summary of Exercise Conditions

Description	Simulated	Actual
Nuclear Duty Officer		Name Here
Near Site EOF	Dixon EOF	
Joint Public Information Center	Dixon .'PIC	
Communications Services	1997 march 1997	Participating
State Facilities Participating	REAC, IEMA Dispatch	her, IEMA Public Information
Counties Participating	Ogle County EOC	den autoritation
NRC Participation (Base Team, HPN, ENS)	Response Cell	
NRC Participation (Site Team)	Mock Site Team	
Murray & Trettel (Meteorology)	Response Cell	
Teledyne Brown (Environs Sampling)	Response Cell	
NARS Phone		Actual
Emergency Notification System (ENS) Phone	Simulated	Actual
Health Physics Network (HPN) Phone	Simulated	
Point History Source	GSEP.SIM with GSEP	EX Back Lip
ERDS Source	GSEP.SIM	
HRSS Teams	Simulated	
Station Assembly	Simulated	
Station Evacuation	Simulated	
Station Relocation Center	Simulated	
Station Drills Conducted	None	

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Exercise Versus Clock Time :

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EXERCISE MINUTES	CLOCK
-30	0700
-20	0710
-10	0720
0	0730
10	0740
20	0750
30	0800
40	0810
50	0820
60	0830
70	0840
80	0850
90	0900
100	0910
110	0920
120	0930
130	0940
140	0950
150	1000
160	1010
170	1020
180	1030

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EXERCISE MINUTES	CLOCK
190	1040
200	1050
210	1100
220	1110
230	1120
240	1130
250	1140
260	1150
270	1200
280	1210
290	1220
300	1230
310	1240
320	1250
330	1300
340	1310
350	1320
360	1330
370	1340
380	1350
390	1400
400	1410

EXERCISE NARRATIVE SUMMARY

INITIAL CONDITIONS

Unit 1

Unit 0 / Common

Overnight Ice Storm Debris in Rock River Security Doors #170 and #445 deactivated

38% Power for Entry LCOs : RCS Activity, Cnmt Air Locks, Secondary Sources ; Known 2 gpm RCS Leak Failed Fuel Monitor ALARM RCS @ 2.1 µCi/g I-131 DEQ Damaged Personnel Hatch FHB Inner Door OOS Leakrate Surveillance Due

Unit 2

95% Power @ 8 Days LCOs : 2SD002C and 2A SG PORV (valves are isolated) 27B HTR MAG OOS Reduced Letdown to 75 gpm

EXERCISE EVENTS

0700 (-030) Participant Briefing(s) & 0730 (+000) Exercise Start

- 0750 (+020) BPO request to ramp to 100% Power (Loss of Zion Unit 2)
 - 0805 (+035) ALERT on EAL MA3 (Auto Trip Not Successful) U1 Main Turbine Trip after Turbine Thrust Bearing failure with failure of automatic Reactor Trip ; successful Manual Trip
 - 0830 (+060) FHB ARM fails high w/Booster Fan autostart ; Fan cable failure.
 - 0900 (+090) Small Break in Containment, 1 hr ramp 30 gpm to 160 gpm with I-131 ramp to 300 µCi/g
 - 1000 (+150) SITE EMERGENCY on EAL FS1 (Fission Product Barriers) Leak Exceeds Capacity of 1 Charging Pump [3d] and RCS > 300 µCi /g I-131 DEQ ; Manual Safety Injection and Containment Isolation ; 1A RHR Pump failure
 - 1020 (+170) Security Vehicle slides on ice and damages outer FHB Roll Up Door (creates release path through FHB)
 - 1110 (+220) Failure of Bus 142 (ESF Train B) on overcurrent with failure to start on 1B Diesel Generator and failure of Bus 242/142 Crosstie
 - 1155 (+275) GENERAL EMERGENCY on EAL FG1 (Fission Product Barriers) Maximum LOCA in Containment with core uncovery ; failure of 1A Containment Spray Valve; damage to inner Containment Personnel Hatch; Environmental Release
 - 1215 (+285) Sheared pin on 0B Travelling Screens

1330 (+360) Approximate end of environmental release

1400 (+390) Exercise Termination

EXERCISE NARRATIVE SUMMARY

Initial Conditions 0700 - 0729 (T-030 - T-001)

UNIT 0 / COMMON :

At about 1600 - 1700 hours on Tuesday, November 14, 1995, a major ice storm moved into the northern Illinois area from Wisconsin. The storm has affected most of central and southern Wisconsin, parts of southeastern Minnesota, and Illinois along a line roughly north of Interstate 80, and east of State Route 78 and State Route 88 to Lake Michigan. The heaviest precipitation occurred between the hours of 2100 on November 14th through 0400 on November 15th. There has been a significant build-up of ice throughout the region, making roads slippery and very hazardous. Road crews have been working throughout the night to keep local roads open by salting and sanding roads. Numerous auto accidents have been reported throughout the region ordered closed at 0515 hours this morning. The freezing rain had largely become freezing drizzle by the time that day-shift personnel reported to Byron for work this morning. The precipitation is forecast to end entirely by mid-morning, with clearing conditions throughout the remainder of the higher than normal level (+8-10 inches).

Security doors #170 and #445 are deactivated due to recent door ajar incidents.

UNIT 1 :

Unit 1 (U1) has been at power for 110 days. It is currently steady at 38% power to permit a containment entry. The following Limiting Conditions of Operation (LCOs) are in effect: Excessive I¹³¹ Coolant Activity (48 hours to be in Cold Shutdown), Containment Air Locks, and Secondary Sources. The following significant pieces of equipment are Out of Service (OOS): Containment Valve, 1G Steam Dump, 1A CV Mixed Resin Bed, and the Fuel Handling Building inner roll-up door (open to about 20' with a twisted track). The following significant plant evolutions are Scheduled for today : Leakrate Surveillance, maintenance on 00G064, maintenance on the 1B valve 1-CV-222 (Regen Heat Exchanger Charging Line Valve) is known to be leaking at a rate of 2 gpm.

Unit 1 began a ramp down from 95% power at 2200 hours on Tuesday, November 14, 1995, and reshed 38% power at 0135 hours on Wednesday, November 15th (this morning). A routine pair change chemistry sample was collected at 0320 and was reported as normal at 0430. At 0500 a three-person team entered containment via the 426 elevation Personnel Hatch to repair the 1-CV-222 valve; the team consisted of a Radiation Protection Technician (RPT) and two contractors from Furmanite Engineering. At 0530 a LOW/HI alarm was received on the Failed Fuel Monitor (1PR006). At about the same time the containment team reported that they were exiting containment due to unexpectedly high area radiation readings of 5 R/hr. The team was

not able to complete repairs to the 1-CV-222 valve. The Control Room requested that Chemistry obtain an RCS sample in response to the Failed Fuel Monitor alarm.

At 0535, the containment team reported that they had exited the containment and that the outer personnel hatch door had been damaged and would not seal. At 0630 Chemistry reported the results of the RCS sample as 2.1 μ Ci/g. A confirmatory RCS sample was immediately requested and is currently in progress; sample results are expected between 0745 and 0815 (T+015 - T+045) [NOTE : the collection of this sample is simulated by Controllers and Controllers will issue the sample results as appropriate].

UNIT 2 :

Unit 2 (U2) has been at power for eight days coming out of Refueling Outage B2R05. It is currently steady at 95% power. The following Limiting Conditions of Operation (LCOs) are in effect : the 2DS002C containment isolation valve and the 2A Steam Generator Pressurizer Overpressure Relief Valve - both valves are isolated. The following significant pieces of equipment are Out of Service (OOS) : 27B Heater Magnatrol (Level Switch). No major Unit 2 plant evolutions are scheduled for today. There is a current 2D Steam Generator Flow Mismatch alarm.

Normal Operations / UNUSUAL EVENT Classification 0730 - 0804 (T+000 - T+034)

At approximately 0750 (T+020) the Control Room will receive a call from Bulk Power Operations to inform them that Zion Unit 2, which had been at 100% power, has tripped off line, leaving the system condition as **RED**, due to voltage problems. The Nuclear Duty Officer (NDO) will also be contacted with the information about Zion U2. Byron will be requested to bring both Units to 100% power as soon as possible. At about 0800 (T+030), results of the RCS sample requested at 0630 (T-060) will be provided to the Unit 1 Unit Chemist; the results will read 3.0 μ Ci/g I¹³¹ Dose Equivalent Iodine (DEQ), confirming the earlier sample and the Failed Fuel Monitor value.

Expected Actions

The Shift Engineer (Acting Station Director) should immediately (0730, T+000) evaluate the available RM-11 and chemistry information against the requirements of EAL MU7 (Fuel Clad Degradation); the Shift Engineer may elect to classify an **UNUSUAL EVENT** emergency classification based on the elevated Failed Fuel Monitor and a <u>preliminary</u> chemistry result of 2.1 μ Ci/g I¹³¹ DEQ. IF an UNUSUAL EVENT is classified then a NARS form should be transmitted. The Shift Engineer will have to decide whether to honor the Load Dispatcher's request to increase to full power on Unit 1. It is most likely that Unit 1 will be maintained at current power and not be ramped to 100%, while Unit 2 will begin a power ramp from 95% to 100% power at 1 MW/MIN. Maintenance may begin preparations to make repairs to the damaged Containment Hatch and to repair the FHB Inner Door.

ALERT Classification 0805 - 0959 (T+035 - T+149)

At 0805 (T+035), the Turbine Thrust Bearing Pressure Switch will fail, causing a Main Turbine trip. The reactor will fail to auto-trip. A manual reactor trip from the Control Room will be successful. After 0810 (T+040), the Control Room will receive a call from an Outside Operator at the River Screen House on his/her rounds; the Operator will report a high river level with a lot of river debris, and the travelling screens running continuously (screens are operating on SLOW speed). At 0830 (T+060) the Fuel Handling Building (FHB) Fuel Handling Incident Area Radiation Monitor (3AS155 / ORE-AR-055, FHB 426' elevation) will fail upscale, causing the 0A FHB Booster Fan to autostart. At 0840 (T+040) there will be a failure of the power cable to the FHB Booster Fan motor, making the Booster Fan inoperative for the remainder of the exercise. At 0845 (T+045) Control Room indication will be lost on the N-31 Source Range Monitor.

At 0900 (T+090) a small break of about 30 gpm will occur within containment (not from the 1-CV-222 valve) and the leak will ramp to 160 gpm over one hour and then become steady. At the same time, the I¹³¹ DEQ will begin to ramp from 3 to 300 μ Ci/g. At about 0955 (T+145) the TSC will be issued a Chemistry message informing them that the post-trip sample contained in excess of 300 μ Ci/g DEQ I¹³¹.

Expected Actions

The Acting Station Director (Shift Engineer) should classify an ALERT emergency classification based on EAL MA3 (Auto Trip not Successful), and issue a NARS form. The TSC and OSC should be staffed. Bulk Power Operations should initiate the staffing of the CEOF and should notify the exercise Nuclear Duty Officer of the event. The TSC should assume Command-and-Control from the Control Room as soon as possible.

Operations should be dispatched to perform a variety of routine post-reactor trip tasks. Radiation Protection should be dispatched to survey the FHB. Instrument Maintenance should be dispatched to investigate the problems with ORE-AR055 and with the N31 Source Range Monitor. Electrical Maintenance should be requested to investigate the FHB Booster Fan problems. The Control Room should increase the travelling screens from low to high speed. Chemistry may be requested to collect additional RCS and containment air samples.

8.00

SITE EMERGENCY Classification 1000 - 1157 (T+150 - T+267)

At 1000 (T+150) the leak inside containment will exceed 150 gpm (exceeds the capacity of one Charging Pump) and will then stabilize at about 160 gpm. At 1020 (T+170) a Security Mobile Patrol will slide on the ice outside the Fuel Handling Building, sliding into the FHB Outer Roll-Up Door, and knocking one side from its track. At 1050 (T+200), a report will be received in the TSC of a three-car accident blocking the State Route 72 bridge over the Rock River into the town of Byron. At 1110 (T+220) Bus 142 (ESF Train B) will trip on overcurrent and the 1B Diesel Generator will fail to autostart. When Operators attempt to use the Bus 242/Bus 142 Crosstie to re-energize Bus 142, the crosstie will not close in.

Expected Actions

The Station Director (TSC) should classify a SITE EMERGENCY emergency classification on EAL FS1 (Loss of Fission Product Barriers : LOSS of Fuel Clad (2d) and LOSS of Reactor Coolant System (3a & 3d)) and issue a NARS form. The NDO should be contacted to begin staffing the Dixon EOF and Dixon JPIC. Command-and-Control should be transferred from the TSC to the CEOF as soon as possible. Environs teams should be dispatched from the Station if they are not already out. A (simulated) station assembly should be initiated. The TSC should begin to identify non-essential personnel and begin planning for site evacuation.

After the charging pump capacity is exceeded, Control Room staff should enter procedure BEP-0 (Reactor Trip) and perform a manual Safety Injection (SI). The 1A Residual Heat Removal (RHR) Pump will not operate during the SI, because of a failure of the pump motor breaker. The Control Room should then transition through procedures BEP-1 (LOCA) and BEP-1.2 (Post-LOCA Cooldown). NOTE that the 1B Diesel Generator receives an autostart signal and starts as a result of the Safety Injection and should be secured prior to 1030 (T+180) according to BEP-1 Step 11.c.

Operators should be dispatched to perform routine post-SI tasks. Operators should also respond to the Bus 142 trip, the 1B Diesel Generator, and the 1A RHR Pump. Electrical Maintenance (and possibly Station OAD) should be dispatched to investigate the Bus 142 failure. A multidisciplinary team should be dispatched to the 1B Diesel Generator and will discover a failure of the butterfly valve on the air line to the Starting Air Header. Teams of EMs should be dispatched to repair the Bus 242/Bus 142 crosstie and the 1A RHR pump. Mechanical Maintenance should be dispatched to investigate and make temporary repairs to the FHB Door(s).

GENERAL EMERGENCY Classification 1158 - 1400 (T+268 - T+390)

At 1158 (T+268) the existing small reactor coolant leak inside containment increases to a maximum break. Containment pressure increases rapidly. Discharge Header Isolation Valve MOV-1CS-007A fails to open, preventing containment sprays from operating [valve 1CS-007B cannot open due to a loss of power]. At about 1200 (T+270) the inner Containment Personnel Hatch gives way, releasing containment activity to the Fuel Handling Building. An unfiltered, unmonitored, release begins to the environment by way of the open Inner FHB Roll Up Door and the damaged Outer FHB Roll Up Door. The environmental release will continue for approximately (T+285) a high differential pressure alarm is received in the Control Room for the 0B Travelling Screen in the River Screen House; operators will discover that the screen has a sheared pin which has immobilized it, and that debris has built up on the river side so that an adequate water level cannot be maintained in the Circ Water Bay.

Expected Actions

The Manager of Emergency Operations (CEOF or EOF) should classify a **GENERAL EMERG-ENCY** emergency classification on EAL FG1 (Loss of Fission Product Barriers : LOSS of Containment Barrier (1d), LOSS of Fuel Clad (2d) and LOSS of Reactor Coolant System (3a & 3d)). Minimum Protective Action Recommendations (PARs) should be issued while dose assessment activities are in progress. Environs teams should be directed to monitor and map the plume. Command-and-Control should be transferred from the CEOF to the EOF, if that has not already occurred; control of the environs teams should be transferred from the TSC to the EOF.

Operations should respond to the Travelling Screen alarm and Mechanical Maintenance should be dispatched to repair the sheared pin before station circ water is lost.

Summary of Expected EALs

	EAL #	Description	Time
1.	MU7	Fuel Clad Degradation	0730 (T+000)
2.	MA3	Auto Trip Not Successful	0805 (T+035)
3.	MU8	RCS Leakage	0905 (T+095)
4.	FA1	Fission Product Barriers	0930 (T+120)
5.	FS1	Fission Product Barriers	1000 (T+150)
6.	FG1	Fission Product Barriers	1200 (T+270)
7.	RG1	> 1 rem TEDE	>1200 (T+280)

Fission Product Barrier Matrix :

LOSS - RCS (3a)	0930
LOSS Fuel Cladding (2d)	0955
POTENTIAL LOSS - RCS (3d)	
POTENTIAL LOSS Containment Barrier (1b)	1000
LOSS Containment Barrier (1b)	1200
LOSS Containment Barrier (1d)	1200

Exercise Meteorology

A strong low pressure moved through the northern Illinois region overnight, bringing freezing rain and thick accumulations of ice. Today's forecast is for freezing rain to taper off by mid-morning and conditions to begin gradually clearing by noon. Winds will be generally out of the east throughout the morning and early afternoon; wind speeds will increase from near calm (2 mph) early to about 14 mph by the end of the exercise.

At the time of the release (1200, T+280), surface winds will be from 72° at about 12 mph (downwind sector M), with a D Stability Class. The wind direction will be steady from the start of the release until the end of the exercise, while wind speeds continue to increase slightly, ending the exercise at about 14 mph.

Release Information

An unmonitored, unfiltered, environmental release begins at approximately 1158 (T+268) following the large break LOCA in containment and the failure of the inner containment personnel hatch. The release pathway is from containment through the Fuel Handling Building and to the environment via the FHB Trackway (open inner door and damaged outer door). The initial release rate is $1E+07 \mu$ Ci/sec with a peak of approximately $5E+07 \mu$ Ci/sec (combined Noble Gas, lodine, and Particulate activity) occurring at 1201 (T+271). The release will follow containment pressure and steadily decrease in magnitude from its peak value until effectively reaching zero (0) at 1330 (T+360), when containment pressure reaches equilibrium with the outside. Significant amounts of particulate fission product activity will be deposited within the Fuel Handling Building as a result of this release.

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Approximately 0.75% (less than 1 percent) of the total release will be entrained through Fuel Handling Building and Auxiliary Building ventilation systems and be released through the Aux. Building Stack (a monitored pathway). The maximum Wide Range Gas Monitor (WRGM) value (gas channel) will be near 9E+04 μ Ci/sec, and will be approximately the same as the 2x ODCM value of 9.8E+04 μ Ci/sec. In order to make a correct dose assessment, the environs staff will have to recognize that only a portion of the total release is through a monitored pathway. Environs teams will be required to track the plume and participants will have to obtain effective release rates by back-calculation from field results.

The release is from 72° and the centerline path is through Sector M near the line with Sector N. There is no wind shift during the exercise and the position of the centerline remains generally constant. At 5.2 m/s (12 mph), the plume crosses the site boundary at approximately 1203 (T+273), reaches 2 miles downwind at 1210 (T+280), reaches 5 miles downwind at 1225 (T+295), and exits the 10-mile EPZ at 1250 (T+320). After the release effectively terminates, the trailing edge crosses the 2-mile ring at 1340 (T+370) and crosses the 5-mile ring at 1355 (T+385). The plume does not completely exit the EPZ during the exercise.

Environmental Measurements

Environs teams will be able to measure radiation levels in excess of 1 mR/h to a downwind distance of 5 miles in Sector L and to about 3 miles in Sector N. The maximum exposure rate is 19 mR/h at point N12 at 1208 to 1212 (T+278 - T+282). The plume is measurable by CP instruments (> 1 mR/h) to a distance of about eight (8) miles downwind; the plume is measurable using a GM instrument in all locations in M sector.

The maximum iodine cartridge values of >250,000 cpm are seen at points M13, M Reuter-Stokes, N12 [all at 1159 - 1212, T+268 - T+282], and at M16 [1213 - 1227, T+283 - T+297]. Particulate pre-filter measurements are also in excess of 250,000 cpm at these locations and times.

Onsite and Emergency Worker Protective Actions

The ComEd environs staff is expected to evaluate whether to issue Potassium Iodide (KI) to company emergency workers (environs teams). Based on iodine air sample information the expected maximum calculated Thyroid dose (CDE) is 49.2 rem, exceeding the 25 rem PAG for emergency workers. Environs teams are expected to be issued KI.

Expected Protective Action Recommendations (PARs)

The expected PARs for the UE NARS form (0740 - 0800) are : 5A [Release to the Environment : None], 6A [Type of Release : Not Applicable], 7 Wind Direction From : 91° / Downwind Sector : N, 8 Wind Speed : 1.3 m/s, 9A [Recommended Actions : None].

The expected PARs for the ALERT NARS form (0810 - 0830) are : 5A [Release to the

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Environment : None], 6A [Type of Release : Not Applicable], 7 Wind Direction From : 84° / Downwind Sector : N, 8 Wind Speed : 1.5 m/s, 9A [Recommended Actions : None].

The expected PARs for the SITE EMERGENCY NARS form (1015 - 1035) are : 5A [Release to the Environment : None], 6A [Type of Release : Not Applicable], 7 Wind Direction From : 78° / Downwind Sector : M, 8 Wind Speed : 3.3 m/s, 9B [Recommended Actions : Prepare for Possible Action involving the Public].

The expected PARs for the GENERAL EMERGENCY NARS form (1210 - 1225) are : 5C [Release to the Environment : Occurring], 6B [Type of Release : Radioactive Gas], 7 Wind Direction From : 73° / Downwind Sector : M, 8 Wind Speed : 5.4 m/s, 9C [Initiate Public Notification Procedures], 9H [Evacuate 0-2 mile radius], 9J [Evacuate 2-5 miles for Sectors L-M-N].

The expected PARs for the GENERAL EMERGENCY RELEASE TERMINATION NARS form (1330 - 1345) are : 5D [Release to the Environment : Terminated], 6A [Type of Release : Not Applicable], 7 Wind Direction From : 71° / Downwind Sector : M, 8 Wind Speed : 5.8 m/s, 9C [Initiate Public Notification Procedures], 9H [Evacuate 0-2 mile radius], 9J [Evacuate 2-5 miles for Sectors L-M-N]. NOTE that IDNS procedures based on reactor conditions MAY drive the evacuation of the 5-10 mile downwind zone for sectors L-M-N - if so, the appropriate PARs are 9C/9H/9J/9K.

Controller Exercise Summary

TIM	E	Class / EAL	Event Descriptions	Wind Direction	Wind Speed	NG Release
Exercise	Clock			(deg)	(m/s)	(µCi/s)
-150	0500	N/A	Containment Entry to fix 1CV222 Leak	N/A	N/A	N/A
-120	0530	N/A	Alarm on FFM, Cnmt Exit on high rads, Broken Outer Hatch	N/A	N/A	N/A
-060	0630	N/A	Chem results 2.1 µCi/g DEQ I-131	N/A	N/A	N/A
000	0730	UE @ MU7	High RCS Levels	91	1.7	N/A
015	0745	UE	Routine Operations	88	1.7	N/A
030	0800	UE	BPO Call - Loss of Zion Unit 2	85	1.9	N/A
045	0815	ALERT MA3	Turbine Trip , Auto Reactor Trip fails	84	2.0	N/A
060	0830	ALERT	ARM Failure - FHB Booster Fan on	84	2.2	N/A
075	0845	ALERT	FHB Booster Fan failure	82	2.3	N/A
090	0900	ALERT	RCS Leak begins (ramp over 1 hour)	80	2.4	N/A
105	0915	ALERT	RCS Leak continues	79	2.5	N/A
120	0930	ALERT	RCS Leak continues	79	3.5	N/A
135	0945	ALERT	RCS Leak continues	79	3.5	N/A
50	1000	SITE E. FS1	RCS Leak > 150 gpm, 1131 > 300 µCi	79	4.7	N/A
65	1015	SITE EMER	Manual SI, Source Range Monitor fails	79	5.2	N/A

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Controller Exercise Summary

TIM	E	Class / EAL	Event Descriptions	Wind Direction	Wind Creed	
Exercise	Clock]		(deg)	Wind Speed (m/s)	NG Release (µCi/s)
180	1030	SITE EMER	Outer FHB Door Damaged	77	6.5	NIZA
195	1045	SITE EMER	1A/1B Diesels secured	77	6.9	N/A
210	1100	SITE EMER	RCS Leak steady @ 160 gpm	75	7.6	N/A
225	1115	SITE EMER	Bus 142 failure, 1B Diesel failure	75	8.8	N/A N/A
240	1130	SITE EMER	Equipment repairs	75	9.5	N/A
255	1145	SITE EMER	Equipment repairs	74	9.6	N/A
270	1200	GE @ FG1	Max LOCA ; Inner Cnmt Hatch fails	72	9.8	1.4E+07
285	1215	GEN EMER	Environs Release - partially monitored	73	10	9.5E+06
300	1230	GEN EMER	Travelling Screen failure	73	10.2	5.6+06
315	1245	GEN EMER	Equipment repairs	72	10.5	3.2E+06
330	1300	GEN EMER	Equipment repairs	72	10.5	2.1E+06
345	1315	GEN EMER	Equipment repairs	72	10.7	1.6E+06
60	1330	GEN EMER	Release terminated - lack of pressure	72	11	
75	1345	GEN EMER	Evaluation for Recovery classification	71	11.1	1.3E+06
90	1400	GEN EMER	Exercise Terminated	70	11.4	N/A N/A

EVENT SUMMARY EVENT #1

Event

Event Description

High I131 Activity in Reactor Coolant

The U1 Reactor is steady at 38% power after an overnight power reduction to permit a containment entry. Prior to the reduction, the reactor had been at near 100% power for 110 days. The routine post-power reduction sample showed normal RCS iodine activity. At 0530 (T-120) the U1 Gross Failed Fuel Monitor (1RE-PR006) receives a HI ALARM and at the same time increases are seen in containment radiation levels.

Initial sample results shows that the U1 RCS is at 2.1 μ Ci/g I¹³¹ Dose Equivalent (DEQ) and a confirmatory sample has results of 3.0 μ Ci/g.

Following the 0900 (T+090) small break leak, 1^{131} activity levels ramp to 300 µCi/g DEQ. A report showing greater than 300 µCi/g lodine DEQ will be issued by Controllers to Chemistry at about 1000 (T+210). The lodine DEQ value is needed to correctly make the SITE EMERGENCY classification.

NOTE : there is actual industry Operating Experience which indicates that this sort of delayed cladding damage is possible.

Expected Response The Control Room should compare the initial (0630 to 0800, T-060 to T+030) results with U1 Technical Specifications [> 2.0 µCi/g is a Limiting Condition of Operation]. The Control Room should declare an UNUSUAL EVENT (UE) based on EAL MU7 (Valid Failed Fuel Monitor activity greater than Tech Spec Limits) and transmit a NARS form. The high activity in coolant should be considered in deciding whether to ramp U1 to full power when the Zion unit is lost. The affect of elevated coolant activity on area radiation levels should be considered. A contingency message will not be issued if the UE is not classified by the Control Room.

Mock Up Information

RM-11 Data (Simulator), Chemistry Isotopic Reports

Exercise Messages

EVENT SUMMARY EVENT #2

Event	Potential Loss of Containment Integrity
Event Description	An 0500 (T-150) containment entry is performed in order to make repairs on a known leaking valve. At 0530 (T-120) the entry team encounters unexpectedly high area radiation levels and immedi- ately exits the containment area. As they exit, they find that the outer personnel hatch door does not latch. The failure is the shear of a key on a locking gear.
Expected Response	The Control Room is expected to send a work analyst to develop an expedited repair package for the door; the package will not be complete prior to OSC activation. After the OSC is staffed, a Me- chanical Maintenance team should be dispatched to begin door repairs. The outer personnel hatch will not be permitted to be repaired prior to 1200 (T+280).
Mock Up Information	Actual Location
Exercise Messages	

EPEXER/byron/wvsumm/2

EVENT SUMMARY EVENT #3

Event	Request to Ramp to 100% Power
Event Description	At 0750 (T+020) Bulk Power Operations (BPO) will make a call to the Byron Control Room to request an immediate ramp of both units to 100% power at their maximum allowable ramp rates. This is based on the loss of Zion Unit 2 and a unsafe system stability.
Expected Response	The Control Room will have to carefully consider whether the condition of Unit 1 (48 hr LCO on High I-131 activity, etc.) permits ramping the unit to full power to meet BPO's needs. The Control Room is expected to decide to maintain Unit 1 at 38% and ramp Unit 2 from 95% to 100% power.
Mock Up Information	Simulator
Exercise Messages	

EVENT SUMMARY EVENT #4

Event	Main Turbine Trip and Manual Reactor Trip
Event Description	At 0805 (T+035) the Pressure Switch on the U1 Turbine Thrust Bearing fails, causing the Turbine to trip. The automatic U1 reactor trip does not occur and Operators are required to manual- ly trip the reactor. The manual trip is successful.
Expected Response	Operators are expected to recognize the failure of the automatic U1 Reactor trip and to trip the reactor. The Shift Engineer is expected to classify an ALERT based on EAL MA3 (Auto Trip Not Successful), transmit a NARS form, and to initiate the staffing of the TSC, OSC and CEOF.
	Operators are expected to be dispatched to perform a variety of routine post-trip in-plant tasks. All tasks performed in connection with the turbine and reactor trips will be performed successfully. Command-and-Control should be transferred from the Control Room to the TSC as soon as practical.
Mock Up Information	Simulator, Actual Turbine Building Locations
Exercise Messages	

EVENT SUMMARY EVENT #5

Event	Fuel Handling Building (FHB) Area Rad Monitor Failure (3AS- 155) and FHB Booster Fan Failure
Event Description	At 0830 (T+60) the check source on area radiation monitor 0RE- AR0SS sticks in place, giving a false high signal and giving an autostart signal to the 0A FHB Booster Fan. After running for about ten minutes the fan stops due to a power cable failure on the fan motor. The loss of this fan is necessary in order to obtain a mostly-unmonitored release from the Fuel Handling Building later in the exercise.
Expected Response	The Control Room is expected to dispatch Radiation Protection Technicians (RPTs) to survey the FHB. When area radiation levels are discovered to be normal, Instrument Maintenance should be dispatched to troubleshoot the radiation monitor. Additional maintenance staff may be dispatched to the Control Room (to check the RM-11) and to the fan motor (to check the condition of the fan). Note : immediate indication of the fan failure may not be received in the Control Room, depending on the participant's choice of controller switch position for the fan. The OA FHB Booster Fan may not be returned to service during the exercise.
Mock Up Information	Simulator, Actual Location(s)
Exercise Messeres	

Exercise Messages

EVENT SUMMARY EVENT #6

Event	Small Break LOCA in Containment (30-160 gpm)
Event Description	At 0900 (T+090) a small leak will develop in containment (not from the previously identified 2 gpm source). This leak will start out at about 30 gpm and ramp to about 160 gpm by 1000 (T+ 150). At the same time the iodine sample activity will be ramped from 3.0 μ Ci/g to 300 μ Ci/g (see Event #1). After 1000 (T+150) the leak rate will be steady at about 160 gpm.
Expected Response	Control Room staff are expected to enter procedure BOP PRI-1 (Containment Leak) and monitor the leak rate, holding reactor level constant and increasing make-up flow as necessary. The Control Room is not expected to take further action as long as the leak rate remains at less than 150 gpm (Capacity of 1 Charging Pump). The Shift Engineer should recognize that EAL MU8 (2nd UE) is exceeded at about 0905 (T+095), and should recognize that EAL FA1 (2nd ALERT) is reached at about 0930 (T+120) when the containment radiation level exceeds 10 R/h due to the RCS leakage (RCS LOSS 3a).
Mock Up Information	Simulator, Area Radiation Maps
Exercise Messages	

EVENT SUMMARY

Event	Leak Rate exceeds Charging Pump Capacity and Manual Safety Injection (SI)
Event Description	At approximately 1000 (T+150) the ongoing containment leak rate exceeds the capacity of 1 Charging Pump (150 gpm). This constitutues a POTENTIAL LOSS of the RCS Fission Product Barrier (3d).
Expected Response	The TSC should classify a SITE EMERGENCY based on EAL FS1 (Loss or Potential Loss of 2 Fission Product Barriers : LOSS Fuel Clad 2d and either LOSS RCS 3a or POTENTIAL LOSS RCS 3d) and transmit a NARS form. The NDO should be con- tacted to staff the Dixon EOF and JPIC. Command-and-Control should be transferred to the CEOF as soon as practical.
	The Control Room is expected to enter procedures BEP-0 (Reac- tor Trip) and BEP-1 (LOCA). The Control Room should perform a manual safety injection and isolate the containment. The Control Room should transition to procedure BEP-1.2 (Post-LOCA Cool- down). Operators should be dispatched to verify the condition of a variety of routine post-SI equipment.
Mock Up Information	Simulator, Actual In-Plant Locations
Exercise Messages	

EVENT SUMMARY

Event	Failure of the 1A Residual Heat Removal (RHR) Pump during Manual Safety Injection
Event Description	Between 1000 and 1010 (T+150 - T+160) the Control Room crew can be expected perform a manual Safety Injection (SI) according to procedure BEP-1. The 1A and 1B RHR pumps should receive an autostart signal as part of the SI and the 1A RHR pump will not start. The failure is in the 1A RHR pump motor breaker.
Expected Response	The Control Room should request a mixed discipline mainte- nance team be dispatched from the to repair the pump. Participants will be permitted to return the TA RHR Pump to service.
Mock Up Information Exercise Messages	Simulator, Actual In-Plant Location

EVENT SUMMARY

Event	Source Range Monitor Failure (N31)
Event Description	At 1015 (T+165) Source Range Monitor number N31 fails down- scale, though redundant indication is available from N32.
Expected Response	The Control Room should request the dispatch of Instrument Maintenance from the OSC to repair the Source Range Monitor. Participants will be permitted to return the N31 Source Range Monitor to service.
Mock Up Information	Simulator
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Exercise Messages

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EVENT SUMMARY EVENT #10

Event	Loss of FHB Integrity (Damage to Outer Roll Up Door)
Event Description	At 1020 (T+170) a Security Mobile Patrol slides on ice outside the Fuel Handling Building, is unable to stop, and rams the outer roll up door. The driver is uninjured. The door is dented in, has some broken panels, and is knocked from its track. The door is not able to move after being damaged. The damaged door creates a leak path for the unmonitored release from the FHB to the environment.
Expected Response	Security is expected to report the incident to the Security Shift Supervisor and to the TSC. Mechanical Maintanence should be dispatched to evaluate the damage and plan temporary repairs. This event may initially be assigned a low priority because of ongoing work related to the Turbine Trip. Participants will not be permitted to successfully repair this door.
Mock Up Information	Actual Location
Exercise Messages	

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EVENT SUMMARY EVENT #11

Event	Failure of Bus 142
Event Description	At 1110 (T+220) Bus 142 trips on overcurrent, de-energizing all Train B Emergency Safey Function (ESF) equipment.
Expected Response	The Control Room is expected to request a High Voltage Operat- or (HVC) be dispatched to Bus 142. After the initial damage assessment, a team of EMs should be dispatched to attempt to make repairs to the Bus. Participants will not be permitted to return Bus 142 to service during the exercise.
	Note : The Control Room may transition from BEP-1.2 back into normal operating procedures following the Bus 142 event with B Train pumps secured.
Mock Up Information	Simulator, Actual In-Plant Location(s)
PM	

Exercise Messages

EVENT SUMMARY EVENT #12

Event	1B Diesel Generator Failure to Start following Loss of Bus 142
Event Description	At 1110 (T+220) Bus 142 trips. The 1B Diesel Generator should autostart and pick up Bus 142 loads following the trip but does not. The butterfly valve on the starting air line has failed, prevent- ing the pressurizing of the starting air header, and the Diesel will not run.
Expected Response	The Control Room is expected to request an Equipment Operator be dispatched from the OSC. After investigating, a Mechanical Maintenance team should be dispatched to replace the failed air line valve. Participants will not be permitted to return the 1B Diesel Generator to service PRIOR to 1300 (T+330).
	Note : the 1B Diesel Generator DID autostart during the 1010 (T+160) Manual SI, but should be secured at about 1030 (T+ 190) by procedure BEP-1 Step 11.c. If the 1B Diesel Generator is not secured then the 1B breaker will not close into the bus at 1110 (T+220) following the Bus 142 trip.
Mock Up Information	Simulator, Actual In-Plant Location
Exercise Messages	

EVENT SUMMARY EVENT #13

Event	Large Break LOCA with failure of Discharge Header Isolation Valve MOV-1CS-007A
Event Description	At 1155 (T+265) large-break failure will occur on Recirc Leg A (design basis accident). Core uncovery will occur. Containment will rapidly rise to about 30 psig. Containment Spray valve MOV- 1CS- 007A will fail in the closed position (1CS-007B is without power).
Expected Response	The Control Room will re-enter procedure BEP-1 (LOCA) and try to maintain vessel level as best they can.
	The Manager of Emergency Operations (CEOF or EOF) should classify a GENERAL EMERGENCY based on EAL FG1 (Loss/ Potential Loss of 2 Fission Product Barriers and Potential Loss of a 3rd : POTENTIAL LOSS Containment (1b) & LOSS Fuel Clad (2d) & LOSS RCS (3a)). Appropriate Protective Action Recom- mendations should be developed and a NARS form transmitted.
Mock Up Information	
Expreise Manage	

Exercise Messages

EVENT SUMMARY EVENT #14

Event

Failure of the Inner Personnel Containment Hatch and Environmental Release

Event Description

Between 1155 and 1200 (T+265 - T+270), when containment pressure reaches its maximum of about 30 psig, the inner containment personnel hatch will give way, releasing containment activity into the 426 elevation of the Fuel Handling Building. Because of the earlier loss of the 0A FHB Booster Fan and Bus 142 (taking away the 0B FHB Booster Fan), and the damage to the inner and outer FHB roll up doors, a pathway exists for an unfiltered, unmonitored, release to the environment. Only about 1% to 15% of the release is entrained by FHB and Aux Building ventilation systems. The remaining FHB radiation monitors will go into alarm, as will most Aux. Building monitors.

Notes : (1) If temporary repairs have been made to the outer containment personnel hatch earlier in the exercise, these repairs will not hold against containment pressure. Participants will not be permitted to mitigate the environs release. (2) The monitored portion of the release is approximately equal to the ALERT EAL threshold for releases. (3) Participants should compare the environs teams results with B-Model projections and conclude that the monitored component is not large enough to cause the observed offsite radiation levels. (4) Participants should conclude from FHB monitors that the entire release is not being monitored.

Expected Response Workers in the FHB and Aux. Buildings should be evacuated when area radiation levels rise suddenly; workers in the FHB may become contaminated. Environs teams should locate and track the offsite plume. Dose projections should be calculated and appropriate PARs derived. Air samples should be collected in the field and in the FHB; air sample results should be compared with existing protective action guides to determine whether to issue thyroid blocking agents (KI) to ComEd workers. KI should be authorized for use by the environs teams.

Mock Up Information Simulator, Environs Data

Exercise Messages

EVENT SUMMARY EVENT #15

Event	Travelling Screen Failure at the River Screen House
Event Description	As a result of the overnight ice storm, a great deal of debris has been deposited in the Rock River, some of which has washed into the intake screens. At 0810 (T+040) the Control Room will re- ceive a trouble alarm on the travelling screens and a call from an Outside Operator who is at the River Screen House as part of his daily rounds.
	At 1215 (T+295) a pin on the 0B Travelling Screen in the River Screen House will break, binding the travelling screen. The Control Room will receive another trouble alarm on the travelling screen. Debris will rapidly build up on the outside of the screen.
Expected Response	At 0810 - 0815 (T+040 - T+045) the Control Room should shift the travelling screens from low speed to high speed and then clear the trouble alarm, which will reset.
	At 1215 (T+295) the Control Room should request that an Outside Operator be dispatched to the River Screen House. After receiv- ing a damage report, a Mechanical Maintenance team may be dispatched to replace the pin and return the travelling screen to service.
Mock Up Information	Simulator, River Screen House
Exercise Messages	

EXERCISE POINT HISTORY

Exercise Point History for Byron Station is available through the Exercise version of the UNIX GSEP Applications Programs. Exercise Catalogs for Unit 1 and Unit 2 are attached.

1. For the TSC / OSC : Log onto the personal computer available at your work location, using station procedures or your person login ID.

OR

For the CEOF / EOF / JPIC : Log onto the personal computer available at your work station, following the posted instructions and using the login ID and password provided.

- 2. After Windows has loaded, locate and open the Program Group marked "GSEP Exercise Rev 0.1"
- Locate and open those GSEP applications programs which apply to your needs (Point Trend, Point Text, Significant Events, etc.).

NOTE: Many Byron Station point history points are duplicated in the catalogs of <u>BOTH</u> Unit 1 and Unit 2. Due to the limited number of points which can be included in an exercise catalog, some important or desired Unit 1 points may be located **only** in the Unit 2 catalog.

AMOO1	15 MIN AVG 30 FT WIND VEL	M/SEC	P
AM002	15 MIN AVG 250 FT WIND VEL	M/SEC	P
AM~ 74	15 MIN AVG 30 FT WIND DIR	DGREES	P
Al 5	15 MIN AVG 250 FT WIND DIR	DCREES	P
AM007		DGREES	P
AMOOS	15 MIN STD DEV WIND DIR 250FT	DGREES	P
AMOIO	15 MIN AVG DIFF TEMP 30/250FT	C/100M	P
AM012		R/HR	P
AM013	AVG CONTAINMENT RAD. UNIT 2	D/HD	P
AM014	AVG INT RANGE POWER LEVEL UNIT 1	MCAMPS	P
AM015	AVG INT RANGE POWER LEVEL UNIT 2	MCAMPS	P
DELTA2	DIFF TEMP LV1/LV2	C/100M	P
DEWPT	DEW POINT	P. P. A. A.	P
DLA014	CORE EXIT T AVG 10 HOTTEST UNIT	DPCP	A
10007	LIQUID RADWASTE DISCHARGE F	CDM	A
F0054	GAS DECAY TANK EFFLUENT F	SCFM	
F0128	CHARGING HDR FLOW	GPM	A
F0134	GAS DECAY TANK EFFLUENT F CHARGING HDR FLOW LETDOWN LINE FLOW RC LOOP 1A F FT-414 S/G 1A FW F FT-510 S/G 1A STEAM F FT-512 S/G 1A BLOWDOWN RC LOOP 1B F FT-424	GPM	A
F0400	RC LOOP 1A F FT-414	PC	A
F0403	S/G 1A FW F FT-510	KBH	A
F0405	S/G 1A STEAM F FT-512	KBH	A
F0407	S/G 1A BLOWDOWN	GPM	A
		PC	A
r0423	S/G 18 FW F FT-520	KBH	A
F0425	S/G 1B STEAM F FT-522	KBH	A
F0427	S/G 1B BLOWDOWN RC LOOP 1C F FT-434 S/G 1C FW F FT-434	GPM	A
F0440	RC LOOP 1C F FT-434	PC	A
	5/5 IC FW F FT=530	KBH	A
C 1	S/G IC STEAM F FT-532	KBH	A
		GPM	A
F0460	RC LOOP 1D F FT-444	PC	A
F0463	S/G 1D FW F FT-540	KBH	A
F0465	S/G ID STEAM E EMPERAD	KBH	A
F0467	S/G 1D BLOWDOWN	GPM	A
F0626	RE DD 1A DCCU PLAN	GPM	A
F0627	RH PP 18 DSCH FLOW	GPM	A
10903	SAFFTV TNT FLOU MO IS SAF	GPM	A
10904	SAFETTV THIT TIT ALL MA A A A A A A A A A A A A A A A A	GPM	A
F0905	SAFFTY THIT PLOU TO THE SAF	GPM	A
F0906	CAFFTY THIT FLORE TO COLD THIS C	GPM	A
F2201	FU DIMD 13 DOOL 5	KBH	A
F2202	FW DIMD 1P DOOL T	KBH	A
F2203	FW DIMP 10 DOOL 5		A
F2231	CNDS BETT DITUD 12 DOCT	(BH	A
F2232	CNDS BETTO DITUD 15 DOON -	CBH	A
F2233	CNDS PETT DITUD SO DE ST	CBH	A
F2234	CNDS BETT DIME ID DOOT	(BH	A
F2331	STAF 12 CAC DICOULDED -	BH	Α
F2332	STAF 1P CAC DICOULDON -	FH	A
	C C	FH	A

F9999	FEEDER FOR POINT X0063			
K8010	NORMAL CNMT TEMPERATURE	DEGF		A
C.34	S/G 1A WIDE RNG LEVEL LT-501	PC		A
1 4	S/G 1B WIDE RNG LEVEL LT-502			A
L0444	S/G 1C WIDE RNG LEVEL LT-503	PC		A
L0464	S/G ID WIDE DNC I DITAT TO SHA	PC		A
L0485	PRESSURIZER RELIEF TANK L RVLIS HEAD LEVEL CH A	PC		A
L0487	RVLIS HEAD LEVEL CH A	PC		A
L0488	RVLIS HEAD LEVEL CH B	PC		A
L0489	RVLIS HEAD LEVEL CH A RVLIS HEAD LEVEL CH B RVLIS PLENUM LEVEL CH A RV PLENUM LEVEL B	PC		A
L0490	RV PLENUM LEVEL B	PC		A
L0901	RV PLENUM LEVEL B RWST LEVEL LT-SI0930 CNMT FLR DRN SUMP LEVEL PC-002	PC PC		A
L2001	CNMT FLR DRN SUMP LEVEL PC-002	and the second sec		A
L2002	CNMT FLR DRN SUMP LEVEL PC-002			A
L2003	CNMT FLR WTR LEVEL PC-006			A
L2004	CNMT FLR WTR LEVEL PC-007	INCHES		A
L2200	CNDSR HOTWELL L LT-CD042	INCHES		A
L2202	CNDSR HOTWELL LVL LT-CD089	INWC		A
L2210	CST LEVEL LT-CD051			A
LD0501	RVLIS TC#1 (100% HEAD) (CH A)	PC	1	A
LD0502	"" HALL LUUT PPEALS (LUUT PERALS)	PLANT 3 3 7000	8 G also	D
LD0503	RVLID ICEZ (312 HEAD) (CU A)	with site and the site of the second		D
LD0504	THE LETE (JIS DEAD) (CH R)	MART \$ \$ \$750		D
and the set of the set	AVILLO ICES (ICOX DIENTIN) / MIL NA			D
LD0506	TOTA TOTA TOTA PLENTINI (CH B)	MOAT BATT		D
man w w w v	AVY LILES IL HA (B) 2 DI L'ATTIMA / PATT BA	the second second second second		D
LD0508	AVLID ICH4 (81% PLENIM) (PH B)	COOT BATT	NO COOL	D
	AVILLO ICHO (DOS PLENUM) (CH A)	COOT & ATTO		D
10	RVLIS TC#5 (55% PLENIIM) (CH B)	COOTAND	NO COOL	D
LU0511	RVLIS TC#6 (37% PLENTIM) (CH A)	COOTAND		D
LD0512	KVLIS TCHE (37% DIENTIM) / OU DI	COOLANT		D
LD0513	RVLIS TC#7 (27% PLENUM) (CH A)	COOTANT		D
100214	RVLIS TC#7 (27% PLENTIM) (CH B)	COOTSIM		D
LD0515	RVLIS TC#8 (15% PLENTIM) (OU A)	COOLANT	NO COOL	D
LD0516	AVELD ICHO (IDS PLENUM) (CH R)	COOLANT		D
120000	REACTOR TRIP STATUS	NOT TRIP	NO COOL TRIPPED	D
N0021	SOURCE RNG DETECTOR 1 LOG O	DKCS	IRIPPED	D
N0022	SOURCE RNG DETECTOR 2 LOG O	DKCS		A
N0049	FWR RNG CH 41 (OUAD 4) TOTAL O	PC		A
N0050	PWR RNG CH 42 (OUAD 2) TOTAL O	PC		A
P0142	CHARGING HDR P	PSIG		A
P0400	S/G 1A STMLINE PRESS PT-514	PSIG		A
P0403	S/G 1A FW PRESS PT-FW022	PSIG		A
P0420	S/G 1B STMLINE PRESS PT-524	PSIG		A
P0423	S/G 1B FW PRESS PT-FW023	PSIG		A
P0440	S/G 1C STMLINE PRESS PT-534	PSIG		A
P0443	S/G 1C FW PRESS PT-FW024	PSIG		A
P0460	S/G 1D STMLINE PRESS PT-544	PSIG		A
P0463	S/G 1D FW PRESS PT-FW025	PSIG		A
P0480	PRESSURIZER PRESS PT-455	PSIG		A
				A

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Point	ID Catalog : BY95.UNIT1.EXER			
P0485	PRESSURIZER RELIEF TANK P			
P0491		PSIG		A
PC . 32	DAG STERN DAAR	PSIG		A
PL 3	DCC WTDE BUG MEL	PSIG		A
P0494	RCS WIDE RNG CH I LP 3 P RCS WIDE RNG CH III LP 3 P	PSIG		A
P0496	STMLINE HDR PRESS PT-507	PSIG		A
P0498	RC LOOP 1C WR PRESS	PSIG		A
P0499	RC LOOP 1A WR PRESS	PSIG		A
P1000	CONTAINMENT PRESS PT-936	PSIG		A
P2201	FW PUMP DSCH HDR P	PSIG		A
P2202	FW PUMP SUCTION P	PSIG		A
P2203	CNDS PUMP DSCH HDR P	PSIG		A
P2204	CNDS BOOSTER PUMP DSCH HDR P	PSIG		A A
P2301 P2302	AF PUMP 1A SUCT P	PSIA		A
P3201	AF PUMP 1B SUCT P	PSIA		A
P3202	CNMT SPRAY PUMP 1A DSCH P	PSIG		Ä
PN0445	DIAMA FUNE TO USCH P	PSIG		Ä
PN0578	RWST LEVEL	NOT LO	LO	D
PN0579	ACCUMULATOR 1C PRESS (1PT-0964)	N HIGH	HIGH	D
PN0580	ACCUMULATOR 1C PRESS (1PT-0964) ACCUMULATOR 1C LEVEL (1LT-0954)		LOW	D
PN0581			HIGH	D
PN0582			LOW	D
PN0583	A PATTA STATE AND A ST		HIGH	D
PN0584	ACCUMULATOR 1D LEVET (11T ODEC)	Contraction of the second s	LOW	D
PN0585	ACCUMULATOR 1D LEVET (11T OCEC)		HIGH	D
PN0598	ACCUMULATOR 1A PRESS (1PT-0060)		LOW	D
PN0599	ACCUMULATOR 1A PRESS (1PT-0060)	N HIGH N LOW	HIGH	D
P :00	ACCUMULATOR 1A LEVEL (11.T-0950)	N HIGH	LOW	D
PNu601	ACCUMULATOR 1A LEVEL (11T-0050)	N LOW	HIGH	2
PN0602	ACCUMULATOR 1B PRESS (1PT-0062)	N HIGH	LOW HIGH	D
PN0603 PN0604	ACCUMULATOR 1B PRESS (1PT-0062)	N LOW	LOW	D
PN0605	ACCUMULATOR 1B LEVEL (11 T-0052)	N HIGH	HIGH	D
PRECIP	ACCUMULATOR 18 LEVEL (117-0052)	N LOW	LOW	
Q2800	PRECIPITATION	MM	2011	D P
Q2810	GEN MW	MW		Â
Q2811	UAT 141-1 X WDG WATTS UAT 141-1 Y WDG WATTS	MW		A
Q2812	Cam all a nos mails	MW		A
Q2813		MW		A
Q2816	SAT 142-1 Y WDG WATTS UAT 141-2 X WDG WATTS	MW		A
Q2817	UAT 141-2 Y WDG WATTS	MW		A
22818	SAT 142-2 X WDG WATTS	MW		A
22819	SAT 142-2 Y WDG WATTS	MW		A
22820	345 KV LINE 0621 MW	MW		A
22822	345 KV LINE 0622 MW	MW		A
22826	345 KV LINE 0624 MW	MW		A
22828	345 KV LINE 15501 MW	MW		A
2901	DG 1A WATTS	MW		A
2902	DG 1B WATTS	KW KW		A
				A

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RA0001		MR/HR	
RA0002		MR/HR	A
1003		MR/HR	A
×. ,04	an and a state of the state of	MR/HR	A
RA0005	and a standard a	MR/HR	A
RA0006	LILLY JUN	MR/HR	A
RA0007	AUX BLDG ELEV 364	MR/HR	A
RA0008		MR/HR	A
RA0010		MR/HR	A
RA0011		MR/HR	A
RA0012		MR/HR	A
RA0013		MR/HR	A
RA0014		MR/HR	A
RA0015		MR/HR	A
RA0017	HIGH LEVEL LAB	MR/HR	A
RA0018		MR/HR	A
RA0019	AUX BLDG ELEV 426	MR/HR	A
RA0020	AUX BLDG ELEV 451	MR/HR	A
RA0021	MAIN CONTROL ROOM	MD /HD	A
RA0023	FUEL HANDLING BUILDING ELEV 426	MD /HD	A
RA0024	FUEL HANDLING BUILDING ELEV 401	MR/HR	A
RA0025	RADWASTE BLDG ELEV 401	MR/HR	A
RA0026	RADWASTE BLDG TRUCK PAV	MR/HR	A
RA0038	TSC HEALTH PHYSICS OFFICE	MR/HR	A
RA0039	CNTMT BLDG 1 FUEL HANDL INCOT	MR/HR	A
RA0040	CNTMT BLDG 1 FUEL HANDL INCOT	MR/HR	A
RA0041	VOL CONTR TK CUBICLE UNTY 1	MR/HR	A
"A0042	CONTAINMENT ELEV 426 UNTT 1	MR/HR	A
14.3	CONTAINMENT ELEV 401 UNIT 1	MR/HR	A A
rchuu44	INCORE SEAL TABLE UNIT 1	MR/HR	A
RA0045		MF./HR	A
RA0046	CONTAINMENT HI RANGE UNIT 1	R/HR	A
RA0047	CONTAINMENT HI RANGE UNIT 1	R/HR	A
RA0048	MAIN STEAMLINE 1A	MR/HR	Â
RA0049	MAIN STEAMLINE 1B	MR/HR	Â
RA0050	MAIN STEAMLINE 1C	MR/HR	A
RA0051	MAIN STEAMLINE 1D	MR/HR	
RA0052	MAIN STEAMLINE 1A	MR/HR	A A
RA0053	MAIN STEAMLINE 1B	MR/HR	
RA0054	MAIN STEAMLINE 1C	MR/HR	A A
RA0055	MAIN STEAMLINE 1D	MR/HR	
RA0056	MAIN STEAMLINE PENETRAT 1A & 1D	MR/HR	A
RA0058	PIPE PENETRATION ELEV 364-R5	MR/HR	A
RA0061	PIPE PENETRATION ELEV 383-R7	MR/HR	A A
RP0011	STATION BLOWDOWN	UCI/ML	
RP0016	GAS DECAY TANK CUB -GAS	UCI/ML	A
RP0024	AUX BLDG EXH OA - GAS	UCI/ML	A
RP0025	AUX BLDG EXH OA - IOD	UCI/ML	A A
RP0027	AUX BLDG EXH OB - GAS	UCI/ML	
RP0029	FUEL HANDLING BLDG EXH -PART	UCI/ML	A A
			A

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RP0030		UCI/ML	A
RP0031	FUEL HANDLING BLDG EXH - IOD	UCI/ML	Ä
RF^932	FILTERED VENT EFF - PART	UCI/ML	Â
R. ,33	FILTERED VENT EFF - GAS	UCI/ML	À
RP0034	FILTERED VENT EFF - IOD	UCI/ML	Â
RP0065	CNTMT PURGE EFF -PART - UNIT 1	UCI/ML	À
RP0066	CNTMT PURGE EFF - GAS - UNIT 1	UCI/ML	Â
RP0067	CNTMT PURGE EFF - IOD - UNIT 1	UCI/ML	A
RP0070	GROSS FAILED FUEL LO ENERGY - 1	UCI/ML	A
RP0071	GROSS FAILED FUEL HI ENERGY - 1	UCI/ML	Â
RP0073	STEAM GEN BLOWDOWN - UNIT 1	UCI/ML	A
RP0075	CONTMT ATMOS-PART - UNIT 1	UCI/ML	Â
RP0076	CONTMT ATMOS-GAS LO-UNIT 1	UCI/ML	À
RP0077	CONTMT ATMOS- IOD - UNIT 1	UCI/ML	Ä
RP0078	CONTMT ATMOS-GAS HI-UNIT 1	UCI/ML	Â
RP0094	SJAE/GLAND STM EXH - GAS 1	UCI/ML	Â
RP0095	AUX BLDG 1 VENT STACK PART	UCI/ML	Ä
RP0096	AUX BLDG 1 VENT STACK GAS LO	UCI/ML	Ä
RP0097	AUX BLDG 1 VENT STACK TOD	UCI/ML	A
RP0099	AUX BLDG 1 VENT WRGM GAS LO	UCI/ML	
RP0100	AUX BLDG 1 VENT WRGM GAS MTD	UCI/ML	A
RP0101	AUX BLDG 1 VENT WRGM GAS HT	UCI/ML	A
RP0102	AUX BLDG 1 VENT WRGM RELEASE	UCI/SEC	A
RP0140	AUX BLDG 2 VENT WRGM RELEASE	UCI/SEC	A
STDLV1	STD DEV WIND DIR LEVEL 1	DEGREES	AP
STDLV2	STD DEV WIND DIR LEVEL 2	DEGREES	P
T0067	RV UPPER HEAD TEMPERATURE A	DEGF	A
T0068	RV UPPER HEAD TEMPERATURE B	DEGF	Â
T :2	EXCESS LETDOWN HX OUTLET T	DEGF	Â
TU126	REGEN HX CHARGING OUTLET T	DEGF	Ä
T0127	REGEN HX LETDOWN OUTLET T	DEGF	A
T0140	VOLUME CONTROL TANK T	DEGF	Ä
T0145	LETDOWN HX OUTLET T	DEGF	Â
T0400	RC LOOP 1A TAVE	DEGF	Â
T0402	RC LOOP 1A TCOLD	DEGF	Â
T0403	RC LOOP 1A DELTA T	PC	Â
T0406	RC LOOP 1A WR COLD LEG T	DEGF	Â
T0419	RC LOOP 1A WR HOT LEG T	DEGF	Â
T0420	RC LOOP 1B TAVE	DEGF	Â
T0422	RC LOOP 1B TCOLD	DEGF	Â
T04.3	RC LOOP 1B DELTA T	PC	Â
T0426	RC LOOP 1B WR COLD LEG T	DEGF	Â
T0439	RC LOOP 1B WR HOT LEG T	DEGF	Â
T0440	RC LOOP 1C TAVE	DEGF	
T0442	RC LOOP 1C TCOLD	DEGF	A A
T0443	RC LOOP 1C DELTA T	PC	A
T0446	RC LOOP 1C WR COLD LEG T	DEGF	A
T0459	RC LOOP 1C WR HOT LEG T	DEGF	A
T0460	RC LOOP 1D TAVE	DEGF	Ä
T0462	DC TOOD ID MOORE	DEGF	A
			A

T0463	RC LOOP 1D DELTA T	PC		1
T0466	RC LOOP ID WP COTD THE M	DEGF		A
1 19	RC LOOP 1D WR HOT TRO T	DEGF		A A
7, 13	PALIC I I COMPLEMENTI DI LOCATINI PRODUCTO	DEGF		A
10051	COMPONENT CLG HX 1 OUT T	DEGF		Â
T FULL	TEMPERATURE	DEG C		P
00092	HOTTEST INCORE TC LOCATION			ć
00414	S/G 1A AVG STM PRESS	PSIG		č
00415	S/G 1A AVG NAR RNG LEVEL	PC		cc
00434	HOTTEST INCORE TC LOCATION S/G 1A AVG STM PRESS S/G 1A AVG NAR RNG LEVEL S/G 1B AVG STM PRESS S/G 1B AVG NAR RNG LEVEL S/G 1C AVG STM PRESS S/G 1C AVG NAR RNG LEVEL S/G 1D AVG STM PRESS S/G 1D NAR RNG LEVEL PRESSURIZER AVG PRESS PRESSURIZER AVG LEVEL	PSIG		č
00435	S/G 1B AVG NAR RNG LEVEL	PC		c
00454	S/G 1C AVG STM PRESS	PSIG		c
00455	S/G 1C AVG NAR RNG LEVEL	PC		000
00474	S/G 1D AVG STM PRESS	PSIG		c
00475	S/G 1D NAR RNG LEVEL	PC		č
00482	PRESSURIZER AVG PRESS	PSIG		č
00483	PRESSURIZER AVG LEVEL	PC		c
00609	STM GEN 1 FW NOZZLE E	KBH		A
00629	STM GEN 2 FW NO77IF F			A
00649	STM GEN 3 FW NO77IF F			A
00000	SIM GEN 3 FW NOZZIE E TTM TAT BER	HOURS		c
00000	SIM GEN 4 FW NOZZIE F	KBU		A
00332	AVG TEMP 10 DOMMERSM MIC A	DEGF		c
111000	DEGREES OF SUBCOOLING	DEGF		c
111000	DEGREES OF SUBCOOLING CNMT PRESS (DETECTOR AVG)	PSIG		c
111029	OLO TOTAL BLOWDOWN FLOW	KBH		c
111030	S/G TOTAL BLOWDOWN FLOW S/G TOTAL FW FLOW S/G TOTAL STM FLOW	KBH		c
11.29	S/G TOTAL STM FLOW	KBH		C
12002	UNIT AUX TRANSFORMER Q SYS AUX TRANSFORMER Q TOTAL CNMT PRESSURE	MW		A
118010	SIS AUX TRANSFORMER Q	MW		A
U8011	TOTAL CNMT PRESSURE	PSIG		A
U8014	LITTE CALLER A LOTTE LINE UKL	DEGF		A
118015	WE'T CAIMIN LID MOATO DOWN	PC		A
U8059	TOTAL CALCULATED DY DESIGN	PC		A
U9007	TOTAL CALCULATED RX POWER 1 MIN AVG STD WIND DIR 30 FT LVL	PC		С
U9009	1 MIN AVG STD WIND DIR 30 FT LVL	NONE		С
WDLV1	1 MIN AVG STD WIND DIR 250 FT LV			C
WDLV2	WIND DIRECTION LEVEL 1	DEGREES		P
WSLV1	WIND DIRECTION LEVEL 2 WIND SPEED LEVEL 1	DEGREES		P
WSLV2	WIND SPEED LEVEL 2	M/SEC		P
X0010	PCI T NYC TCONTC COOT	M/SEC		P
X0011	RCL T AVG ICONIC SPOKE RCL T AVG HI LIMIT	FRACTION		C
X0012	DOT TO ATTO TO THEME	NORMAL	ALARM	D
X0013	DOT T MOOD DEVICE STA	NORMAL	ALARM	D
X0014	DIT T X TIM TO THE POST POST AND ADD	DEGF		С
X0015	DOT TO ALLO MOOT ATTA	DEGF		С
X0020	DWD MTCMAMONT TOOLTO DECEM	LOOP		С
X0021		FRACTION		A C D D C C C D
X0022	DUD MICHAMOU TO TRUTT	NORMAL	ALARM	
	The monter of DIMIT	NORMAL	ALARM	D

X0023	NUCLEAR POWER AVG	PC
X0024	TURBINE POWER AVG	PC
X~~30	CNMT CONDITIONS ICONIC SPOKE	FRACTION
X 31	CNMT COND HI LIMIT	
X0032	CNMT COND LO LIMIT	
X0033	CNMT AIR TEMP AVG	NORMAL ALARM DEGF
X0034	CNMT FLR SUMP LVL	
X0040		INCHES FRACTION
X0041	NR RAD HI LIMIT	
X0043	PARTICULATE RADIATION STATUS	NORMAL ALARM
X0044	IODINE RADIATION STATUS	
X0045	GAS RADIATION STATUS	
X0046		
X0047	SJAE/GLAND RADIATION	
X0050	NAR S/G ICONIC SPOKE	PD) OFTON
X0051	NAR S/G HI LIMIT	FRACTION
X0052	NAR S/G LO LIMIT	NORMAL ALARM
X0053	NAR S/G MOST DEVIANT	NORMAL ALARM
X0054	THE DIG TODA DEVIANT	PC
X0055	NAR S/G MOST DEVIANT LP	
X0060		LOOP
X0061	TOUTL SPURE	FRACTION
X0062		NORMAL ALARM
X0063	NET CHARGING FLOW	NORMAL ALARM
X0070		GPM
X0071	A A A A A A A A A A A A A A A A A A A	FRACTION
X0072		NORMAL ALARM
X0073		NORMAL ALARM
X '4	A A A A A A A A A A A A A A A A A A A	PC
XUU80	- ALADONILOUN LIEVELL REPE	PC
X0081		FRACTION
X0082		NORMAL ALARM
X0083	PZR PRESS AVERAGE	NORMAL ALARM
X0110	CORE EXIT T ICONIC SPOKE	PSIG
X0111	CORE EXIT HI LIMIT	FRACTION
X0112	CORE EXIT LO LIMIT	NORMAL ALARM
X0113	CORE EXIT T AVG 10 HOTTEST	NORMAL ALARM
X0114	CORE EXIT T REFERENCE	DEGF
X0120	START-UP RATE ICONIC SPOKE	DEGF
X0121	START-UP RATE HI LIMIT	FRACTION
X0122	START-UP RATE LO LIMIT	NORMAL ALARM
X0123	START-UP RATE	NORMAL ALARM
X0130		DPM
X0131	CNMT PRESS ICONIC SPOKE	FRACTION
X0132	CNMT PRESS HI LIMIT	NORMAL ALARM
X0133	CNMT PRESS LO LIMIT	NORMAL ALARM
X0140	CONTAINMENT PRESS AVG	PSIG
X0141	WD RADIATION ICCNIC SPOKE	FRACTION
X0141	WD RAD HI LIMIT	NORMAL ALARM
X0142	FUEL HANDLING RAD STATUS CNMT AREA 426 FT RAD STATUS	

Point	ID	Catalog	:	BY95.UNIT1.EXER	
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X0144	CNMT AREA 401 FT RAD STATUS			
V0143	INCORE SEAL TARLE PAD COMMING			CC
10	MAIN STEAM LINE A RAD STAT			c
A .7	MAIN STEAM LINE B PAD STAT			c
X0148	MAIN STEAM LINE C RAD STAT MAIN STEAM LINE D RAD STAT			č
X0149	MAIN STEAM LINE D RAD STAT			č
X0150	WID S/G LVL ICONIC SPOKE	FRACTION		č
X0151	WID S/G LVL HI LIMIT	NORMAL		D
X0152	WID S/G LVL ICONIC SPOKE WID S/G LVL HI LIMIT WID S/G LVL LO LIMIT WID S/G LVL LO LIMIT	NORMAL	ALARM	D
	WID S/G LVL MOST DEVIANT	PC	*********	č
X0154				c
X0155	WID S/G LVL MOST DEVIANT RVLIS ICONIC SPOKE RVLIS LO LIMIT WD PZR LVL ICONIC SPOKE WD PZP LVL HT LIMIT	LOOP		c
X0160	RVLIS ICONIC SPOKE	FRACTION		č
X0102	RVLIS LO LIMIT	NORMAL	ALARM	D
X0170	WD PZR LVL ICONIC SPOKE	FRACTION		č
X0171	WD PZR LVL HI LIMIT WD PZR LVL LO LIMIT	NORMAL		D
X0172	NU FAR LVL ID LIMIT	NORMAL	ALARM	D
X0174	WD PRESSURIZER LEVEL AVG WD PRESSURIZER LEVEL REF	PC		c
X0180	WD PRESSURIZER LEVEL REF	PC		c
X0181	WR RC PRESS ICONIC SPOKE	FRACTION		c
X0182	WR RC PRESS HI LIMIT	NORMAL.	ALARM	D
	WR RC PRESS LO LIMIT WR RC PRESS AVG	NORMAL	ALARM	
X0184	WP PC PRESS AVG	PSIG		C
X0190	WR RC PRESS REFERENCE	PSIG		с
¥2021	DEGREES OF SUBCOOLING CNMT H2 CONC PS343	DEGF		cc
¥2022	CNMT H2 CONC PS343 CNMT H2 CONC PS344	PC		A
V2801	MAIN XFMR 1E CURRENT	PC		A
)2	MAIN XFMR 1W CURRENT	AMPS		A
12010	UAT 141-1 X WDG CURRENT	AMPS		A
Y2811	UAT 141-1 Y WDG CURRENT	AMPS		A
Y2812	SAT 142-1 X WDG CURRENT	AMPS		A
Y2813	SAT 142-1 Y WDG CURRENT	AMPS		A
Y2816	UAT 141-2 X WDG CURRENT	AMPS		A
12811	UAT 141-2 Y WDG CUPPENT	AMPS		A
Y2818	SAT 142-2 X WDG CURRENT	AMPS		A
Y2819	SAT 142-2 Y WDG CURRENT	AMPS		A
Y2821	345 KV LINE 0621 CURRENT	AMPS		A
Y2822	345 KV LINE 0622 CURRENT	AMPS		A
Y2824	345 KV LINE 0624 CURRENT	AMPS	19 N N	A
Y2825	345 KV LINE 15501 CURRENT	AMPS AMPS		A
Y4002	AIR TEMP AT 30 FT	DECE		A
¥4011	MET TWR CH1 WIND SPEED 30 FT IVI	MDU		A
Y4012	MET TWR CH2 WIND DIR 30 FT TWT	DEC		A
Y4013	MET TWR CH3 WIND SPEED 250 FT TV	MDH		A
Y4014	MEI IWR CH4 WIND DIR 250 FT IVI.	DEG		A
Y4015	MET TWR CH5 AIR TEMP 30 FT INT.	DEGF		A
Y4016	MET TWR CH6 DELTA T (250-30)	DECE		A
Y4017	MET TWR CH7 DEWPOINT 30 FT LVI.	DEGE		A
Y4019	MET TWR CH9 PRECIPITATION	INCHW		A
		# 11 WILH		A

AM001	15 MIN AVG 30 FT WIND VEL	M/SEC	
AM002	15 MIN AVG 250 FT WIND VEL	M/SEC	P
AJ** 74	15 MIN AVG 30 FT WIND DIR	DGREES	P
A. 15	15 MIN AVG 250 FT WIND DIR	DGREES	P
AM007	15 MIN STD DEV WIND DIR 30FT	DGREES	P
AMOOS	15 MIN STD DEV WIND DIR 250FT	DGREES	P
AMO10	15 MIN AVG DIFF TEMP 30/250FT	C/100M	P
AM012	AVG CONTAINMENT RAD. UNIT 1	R/HR	P
AM013	AVG CONTAINMENT RAD. UNIT 2	R/HR	P
F0128	CHARGING HDR FLOW	GPM	A
F0134	LETDOWN LINE FLOW	GPM	A
F9999	FEEDER FOR POINT X0063		Ä
K8010	NORMAL CNMT TEMPERATURE	DEGF	Ä
L0404	S/G 1A WIDE RNG LEVEL LT-501	PC	
L0424	S/G 1B WIDE RNG LEVEL LT-502	PC	A
L0444	S/G 1C WIDE RNG LEVEL LT-503	PC	A
L0464	S/G 1D WIDE RNG LEVEL LT-504	PC	A
L0487	RVLIS HEAD LEVEL CH A	PC	A
L2001	CNMT FLR DRN SUMP LEVEL PC-002	INCHES	A
P0499	RC LOOP 1A WR PRESS	PSIG	A
Q2800	GEN MW	MW	A
RA0001	FHB FH INCDT	MR/HR	A
RA0002	FHB FH INCDT	MR/HR	A
RA0003	AUX BLDG ELEV 346	MR/HR	A
RA0004	AUX BLDG ELEV 346	MR/HR	A
P.40005	AUX BLDG ELEV 346	MR/HR	A
RA0006	AUX BLDG ELEV 364	MR/HR	A
RA0007	AUX BLDG ELEV 364	MR/HR	A
R 108	AUX BLDG ELEV 364	MR/HR	A
RA0009	DRUMMING STATION	MR/HR	A
RA0010	AUX BLDG ELEV 383	MR/HR MR/HR	A
RA0011	AUX BLDG ELEV 383	MR/HR	A
RA0012	AUX BLDG ELEV 383	MR/HR	A
RA0013	AUX BLDG ELEV 401	MR/HR	A
RA0014	AUX BLDG ELEV 401	MR/HR	A
RA0015	PRIMARY SAMPLE ROOM	MR/HR	A
RA0016	DECON FACILITY ELEV 426	MR/HR	A
RA0017	HIGH LEVEL LAB	MR/HR	A
RA0018	AUX BLDG ELEV 426	MR/HR	A
RA0019	AUX BLDG ELEV 426	MR/HR	A
RA0020	AUX BLDG ELEV 451		A
RA0021	MAIN CONTROL ROOM	MR/HR	A
RA0023	FUEL HANDLING BUILDING FLEV 426	MR/HR	A
RA0024	FUEL HANDLING BUILDING ELEV 401	MR/HR	A
RA0025	RADWASTE BLDG ELEV 401	MR/HR	A
RA0026	RADWASTE BLDG TRUCK BAY	MR/HR	A
RA0038	TSC HEALTH PHYSICS OFFICE	MR/HR	A
RA0039	CNTMT BLDG 1 FUEL HANDL INCDT	MR/HR	A
2A0040	CNTMT BLDG 1 FUEL HANDL INCDT	MR/HR	A
	THE MANDE INCOT	MR/HR	A

RA004			
RA004	3 CONTAINMENT ELEV AG1 INTO 1	MR/HR	A
* - 74	4 INCORE SEAL TABLE UNIT 1	MR/HR	A
14!	5 AUX BLDG ELEV 401	MR/HR MR/HR	A
RA004	6 CONTAINMENT HI RANGE UNIT 1	R/HR	A
RA004	CONTAINMENT HT PANCE INTE	R/HR	A
RA0048	MAIN STEAMLINE 1A	MR/HR	A
RA0049	MAIN STEAMLINE 1B	MR/HR	A
RA0050	MAIN STEAMLINE 1C	MR/HR	A
RA0051	MAIN STEAMLINE 1D	MR/HR	A
NA0052	MAIN STEAMLINE 1A	MR/HR	A
RA0053	and the second s	MR/HR	A
RA0054		MR/HR	A
RA0055	MAIN STEAMLINE 1D	MR/HR	A
RA0064	CNTMT BLDG 2 FUEL HAND INCDT	MR/HR	A
RA0065	CNTMT BLDG 2 FUEL HAND INCOT	MR/HR	A
RA0069	INCORE SEAL TABLE UNIT 2	MR/HR	A
RA0070	AUX BLDG ELEV 401	MR/HR	A
RA0071	CONTAINMENT HI RANGE UNIT 2	R/HR	A
RA0072	CONTAINMENT HI BANGE INTE 2	R/HR	A
	PLAIN STEAMLINE 2A	MR/HR	A
100/4	MAIN STEAMLINE 2B	MR/HR	A
ICA0075	MAIN STEAMLINE 2C	MR/HR	A A
RA0076		MR/HR	Â
RA0077		MR/HR	A
RA0078 RA0079	MAIN STEAMLINE 2B	MR/HR	A
DA0080	MAIN STEAMLINE 2C	MR/HR	A
	MAIN STEAMLINE 2D	NTD /TTT	A
181 AU082	MAIN STEAMLINE PENETRAT 2A & 2D	MR/HR	Ä
RA0083	MAIN STEAMLINE PENETRAT 28 4 20	MR/HR	Ä
RA0084	PIPE PENETRATION ELEV 364-P26	MR/HR	Â
RA0085	ELLEV SOME IN	MR/HR	Â
RA0086	ELEV 1M IND 2 MILE	MR/HR	A
RA0087		MR/HR	Â
RA0088		MR/HR	Ä
RP0001		MR/HR	Ä
RP0023	LIQUID RADWASTE EFF	UCI/ML	A
RP0024	AUX BLDG EXH OA - PART	UCI/ML	λ
RP0025	AUX BLDG EXH OA - GAS	UCI/ML	A
RP0026	AUX BLDG EXH OA - IOD	UCI/ML	A
RP0027	AUX BLDG EXH OB - PART	UCI/ML	A
RP0028	AUX BLDG EXH OB - GAS	UCI/ML	A
RP0029	AUX BLDG EXH OB - IOD	UCI/ML	A
RP0030	FUEL HANDLING BLDG EXH -PART	UCI/ML	A
RP0031	FUEL HANDLING BLDG EXH - GAS	UCI/ML	A
RP0035	FUEL HANDLING BLDG EXH - IOD	UCI/ML	Ä
RP0036	RADWASTE VENT EFF - PART	UCI/ML	A
RP0037	RADWASTE VENT EFF - GAS	UCI/ML	A
RP0038	RADWASTE VENT EFF - IOD	UCI/ML	A
	MCR OUTSIDE AIR INTAKE A - PART	UCI/ML	A

DDAAAA	11000			
RP0039	CAS ALL ALL INTARE A - GAS	UCI/ML		A
RP0040	MCR OUTSIDE AIR INTAKE A - TOD	TIMT INT		A
Rr-750	MCR TURB BLDG AIR INTAKE A- PAI	RT DCT /MT.		A
R. J51	MCR TURB BLDG AIR INTAKE A- GAS	S TICT /MT.		A
RP0052	MCR TURB BLDG AIR INTAKE A- IOI	UCI/ML		Â
RP0073	STEAM GEN BLOWDOWN - UNIT 1	UCI/ML		Â
RP0075	CONTMT ATMOS-PART - UNIT 1	UCI/ML		A
RP0076	CONTMT ATMOS-GAS LO-UNIT 1	UCI/ML		
RP0077	CONTMT ATMOS- IOD - UNIT 1	UCI/ML		A
RP0078	CONTMT ATMOS-GAS HI-UNIT 1	UCI/ML		A A
RP0092	PIPE TUNNEL - GAS - UNIT 1	UCI/ML		
RP0094	SJAE/GLAND STM EXH - GAS 1	UCI/ML		A
RP0102	AUX BLDG 1 VENT WRGM RELEASE	TICT /CEC		A
RP0104	CNTMT PURGE EFF - GAS - UNIT 2	TICT /MT		A
RP0108	GROSS FAILED FUEL LO ENERGY - 2	TICT /MT		A
RP0109	GROSS FAILED FUEL HT ENERGY - 2	UCI/ML		A
RP0111	STEAM GEN BLOWDOWN - INTE 3	UCI/ML		A
RP0113	CONTMT ATMOS- PART -IINTT 2			A
RP0114	CONTMT ATMOS-GAS LO-INTT 2	UCI/ML		A
RP0115	CONTMT ATMOS- TOD -UNTT 2	UCI/ML		A
RP0116	CONTMT ATMOS-GAS HI-UNIT 2	UCI/ML		A
RP0130	PIPE TUNNEL - CAS - THITE -	UCI/ML		A
RP0132	SJAE/GLAND STM FYH - CAC 2	UCI/ML		A
RP0134	AUX BLOG 2 VENT CTACK CAS	UCI/ML		A
RP0136	AUX BLDG 2 VENT STACK GAS HI	UCI/ML		A
RP0137	AUX BLDG 2 VENT LIDON CAR TO	UCI/ML		A
RP0138	AUX BLDG 2 VENT WRGM GAS MID	UCI/ML		A
RP0139	AUX BLDG 2 VENT WRGM GAS HI	UCI/ML		A
R .40	AUX BLDG 2 VENT WRGM RELEASE	UCI/ML		A
T0400	RC LOOP 1A TAVE	UCI/SEC		A
T0420	RC LOOP 1B TAVE	DEGF		A
T0440		DEGF		A
T0460		DEGF		A
T0499	AUCTIONEERED HIGH TAVE	DEGF		A
U0415	S/G 1A AVG NAR RNG LEVEL	DEGF		A
U0435	S/G 1B AVG NAR RNG LEVEL	PC		C
	S/G 1C AVG NAR RNG LEVEL	PC		C
U0475	S/G 1C AVG NAR RNG LEVEL S/G 1D NAR RNG LEVEL	PC		с
U0482	DRESSIDIZED ANG DECEL	PC		С
U0483		PSIG		C
U0932	PRESSURIZER AVG LEVEL	PC		C
U0934	AVG TEMP 10 HOTTEST T/C S	DEGF		C
U1000	DEGREES OF SUBCOOLING	DEGF		C
U8011	CNMT PRESS (DETECTOR AVG)	PSIG		C
U8059	TOTAL CNMT TEMPERATURE	DEGF		0000004
X0010	TOTAL CALCULATED RX POWER	PC		c
X0010	RCL T AVG ICONIC SPOKE	FRACTION		ć
	RCL T AVG HI LIMIT	and the second second second	ALARM	Ď
X0012	RCL T AVG LO LIMIT	and the second of second later.	ALARM	n
X0013	RCL T MOST DEVIANT	DEGF		UDDU
X0014	RCL T AVG REFERENCE	DEGF		č
				5

Point	ID	Catalog	:	BY95.	UNIT2.	EXER
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X0015	THE A STAD TIONT DEV TH	LOOP
X0020	PWR MISMATCH ICONIC SPOKE	FRACTIO
	PWR MISMATCH HI LIMIT	
	PWR MISMATCH LO LIMIT	NORMAL.
X0023	NUCLEAR POWER AVG	NORMAL
X0024		PC
X0030		PC
X0031		FRACTION
X0032		NORMAL
X0033		NORMAL
	CNMT FLR SUMP LVL	DEGF
X0040	NP PADIATION TOONTO TOO	INCHES
X0041		FRACTION
X0043		NORMAL
X0044	STATES STATES A STATES A STATES	
X0045		
X0046	CONTRACTOR FROM TON	
X0047	CALLER NEDTATION	
X0050	NAR S/G ICONIC SPOKE	FRACTION
X0051	NAR S/G HI LIMIT	NORMAL
X0052	NAR S/G LO LIMIT	NORMAL
X0053	NAR S/G MOST DEVIANT	PC
X0054		
X0055	NAR S/G MOST DEVIANT LP	LOOP
X0060	NET CHARGING F ICONTC SPOKE	FRACTION
X0061	NET CHARGING F HI LIMIT	NORMAL
X0062	NET CHARGING F LO LIMIT	NORMAL
X0063	NET CHARGING FLOW	GPM
'0	NR PZR LVL ICONIC SPOKE	FRACTION
AUU71	NR PZR LVL HI LIMIT	NORMAL
X0072	NR PZR LVL LO LIMIT	NORMAL
X0073	NR PRESSURIZER LEVEL AVG	PC
X0074	NR PRESSURIZER LEVEL REF	
X0080	PZR PRESS ICONIC SPOKE	PC
X0081	PZR PRESS HI LIMIT	FRACTION
X0082	PZR PRESS LO LIMIT	NORMAL
X0083	PZR PRESS AVERAGE	NORMAL
X0110	CORE EXIT T ICONIC SPOKE	PSIG
X0111	CORE EXIT HI LIMIT	FRACTION
X0112	CORE EXIT LO LIMIT	NORMAL
X0113	CORE EXIT T AVG 10 HOTTEST	NORMAL
X0114	CORE EXIT T REFERENCE	DEGF
X0120	START-UP RATE ICONIC SPOKE	DEGF
X0121	START-UP RATE HI LIMIT	FRACTION
X0122	START-UP DAME TO TAMIT	NORMAL
X0123	START-UP RATE LO LIMIT START-UP RATE	NORMAL
X0130		DPM
X0131	CNMT PRESS ICONIC SPOKE	FRACTION
X0132	CNMT PRESS HI LIMIT	NORMAL
X0132	CNMT PRESS LO LIMIT	NORMAL
10133	CONTAINMENT PRESS AVG	PSIG

XX

LOOP		
FRACTIC	NAT.	0
NORMAL	ALARM	D
NORMAL	ALARM	D
PC	arrant.	c
PC		c
FRACTIO	N	c
NORMAL	ALARM	D
NORMAL	ALARM	D
DEGF		č
INCHES		c
FRACTIO	N	C
NORMAL	ALARM	D
		C
		C
		C
		C
		C
FRACTION		C
NORMAL	ALARM	D
NORMAL	ALARM	D
PC		С
LOOP		C
TRACTION	1	CC
ORMAL	ALARM	D
ORMAL	ALARM	D
PM	FILMENUT	c
RACTION	125 - SA	c
ORMAL	ALARM	D
ORMAL	ALARM	D
C		č
C		č
RACTION		c
ORMAL	ALARM	D
ORMAL	ALARM	D
SIG		c
RACTION		C
ORMAL	ALARM	D
ORMAL	ALARM	D
EGF		C
EGF		C
RACTION		C
ORMAL	ALARM	D
ORMAL	ALARM	D
PM		C
RACTION		C
ORMAL	ALARM	D
ORMAL	ALARM	D
SIG		C

Point 1	D	Catalog	:	BY95.	UNIT2.	EXER
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X0140	WD RADIATION ICONIC SPOKE	FRACTIO	N	с
1 W 1 9 1	WD RAD MI LIMIT	NORMAL.	ALARM	
A' 12	FUEL HANDLING RAD STATUS			c
A 13	CNMT AREA 426 FT RAD STATUS			č
XU144	CNMT AREA 401 FT DAD COAPTIC			2
AU14D	INCORE SEAT. TARTE DAD CONSTRUCT			5
VUTAD	MAIN STEAM TIME & PAR COMMEN			0000
AUT41	MAIN STEAM LINE B DAD COMM			C
YOT48	MAIN STEAM LINE C DAD COMM			000
X0149	MAIN STEAM LINE D RAD STAT			C
X0150	WID S/G LVL ICONIC SPOKE	FRACTION		C
X0151	WID S/G LVL HI LIMIT	FRACTION		С
X0152	WID S/G LVL LO LIMIT	NORMAL	ALARM	D
X0153	WID S/G LVL MOST DEVIANT	NORMAL	ALARM	
X0154	MAIN STEAM LINE D RAD STAT WID S/G LVL ICONIC SPOKE WID S/G LVL HI LIMIT WID S/G LVL LO LIMIT WID S/G LVL MOST DEVIANT	PC		C
X0155	WID S/G LVL MOST DEVIANT RVLIS ICONIC SPOKE RVLIS LO LIMIT			000
X0160	RVLIS ICONIC SPOKE	LOOP		C
X0162	RVLIS LO LIMIT	FRACTION		C
X0170	WD PZR LVL TCONTC SPORT	NORMAL	ALARM	D
X0171	WD PZR LVL ICONIC SPOKE WD PZR LVL HI LIMIT WD PZR LVL LO LIMIT WD PERSSURTED INVE	FRACTION		C
X0172	WD PZR LVL TO TIME	NORMAL	ALARM	D
X0173		NORMAL	ALARM	D
AU1/4	WD DDFCCIIDT77FD THISTER	PC		С
V0100	W& RC DDECC TOONTO GEORGE	PC		С
X0181	WR RC PPECS UT TTWE	FRACTION		cc
X0182	WR RC PRESS HI LIMIT WR RC PRESS LO LIMIT WR RC PRESS LO LIMIT	NORMAL	ALARM	D
X0183	WR RC PRESS AVG	NORMAL	ALARM	D
		PSIG		C
X 10	WR RC PRFSS REFERENCE DEGREES OF SUBCOOLING	PSIG		cc
Y4011	MET TWD CHI WIND CON	DEGF		č
¥4013	MET TWR CH1 WIND SPEED 30 FT LVL	MPH		A
¥4015	THE INK CAS WIND SPEED SEA EM TH			A
		DEGF		À
YDOOD6	MEI IWK CH9 PRECIPITATION	INCHW		A
	RX TRIP BRKR A	RESET	TRIP	D
				44

PARTICIPANT TELEPHONE LIST

NUCLEAR DUTY OFFICER : -----PAGER at 708-512-xxxx, OFFICE at 708-663-xxxx (DG x---) Nuclear Duty Officer Update Voice Box

708 / 663-7167

[Byron Station Extensions, Tie Line 297]

SIMULATOR / CONTROL ROOM [By Shift Engineer Unit 1 Supervisor Unit 2 Supervisor Center Desk NSO Unit 1 NSO Unit 1 NSO Unit 2 NSO Emergency Number CONTROL ROOM FAX (OUTSIDE LINE)

815 - 234 - xxxx

PARTICIPANT STAGING AREAS, PRIOR TO OSC ACTIVATION (Byron Extensions) Operations Mechanical Maintenance Electrical Maintenance Instrument Maintenance Radiation Protection Chemistry

JI	HER PARTICIPANTS	Voice Phone	Fax Number
	Bulk Power Operations Illinois Emergency Mangement Agency NRC Region III Base Team Manager NRC ENS Phone Line NRC HPN Phone Line Murray & Trettel Teledyne Isotopes Emergency / "911"	Byron x 815 - 942 - 8159 815 - 942 - 5883 815 - 942 - 8155 815 - 942 - 8156 815 - 942 - 5086 815 - 942 - 6264 815 - 942 - 8403	815 - 942 - 8026 815 - 942 - 5603 815 - 942 - 8168 n/a n/a n/a n/a n/a

All participating facilities or agencies which are not listed above should be contacted at their actual telephone numbers.

CONTROLLER TELEPHONE LIST

BYRON STATION	
Outside Telephone Line To Byron Station ComEd Tie Line To Byron Station	815 / 234 - 5441 8-297 - xxxx
LEAD ONSITE CONTROLLER (BYRON SIMULATOR)	BYR x
SIMULATOR / CONTROL ROOM : Simulator Operator	BYR x
LEAD CONTROLLER, TECHNICAL SUPPORT CENTER	BYR x
LEAD CONTROLLER, OPERATIONS SUPPORT CENTER	BYR x
LEAD OFFSITE CONTROLLER (DIXON EOF) & LEAD CONTROLLER (DIXON JPIC) LEAD OFFSITE CONTROLLER@ Mtg Rm, Brandywine Inn	815 / 815 / 284 - 1890
LEAD CONTROLLER, CORPORATE EOF LEAD CEOF Controller, prior to Activation (Waukegan Rm.)	8-347-7307 * 8-347-6594
LEAD CONTROLLER, RESPONSE CELL	815 / 942 - 8153 (Dresden x2753)
LEAD CONTROLLER, REAC (ask for REAC Controller) Mike Sinclair (Cellular Phone) Kay Foster (Cellular Phone)	217 / 785 - 0600 217 / 494 - 3128 217 / 494 - 8467

(*) The CEOF Controller phone is monitored by EP Clerical staff; ask for the CEOF Lead Controller.

GUIDANCE FOR ACTIVATING AND ACCESSING THE MOCK HPN CONFERENCE LINE

****	NOTE :
*	***************************************
* M	CONFEDENCE DETECT CONFEDENCE DETECTOR
* 0	CONFERENCE BRIDGE SETUP INFORMATION, TO BE USE BY THE RESPONSE CELL
*	TELEPHONE NUMBER : 1-800-475-4700
*	ACCOUNT CODE : 6122025 GE ACCESS TELEPHONE NUMBERS (ALL BRIDGE PARTICIPANTS): 1-800-857-7522 PASSWORD = HPN
:	TO SET UP THE CONFERENCE BRIDGE (Mock - NRC HPN Communicator) :
	a) Call the MCI Conference bridge SETUP OPERATOR on 1-800-475-4700.
	b) Identify yourself as being a Commonwealth Edison representative and provide the appropriate ACCOUNT CODE:
	6122025
	c) The TOTAL NUMBER on the bridge will be $\underline{6}$.
	 Answer any additional questions the operator may have (e.g. name, contact phone number, etc.)
	e) The operator will proceed to set up the requested Conference Bridge, this should take approximately <u>20</u> minutes.
2	TO ACCESS THE CONFERENCE BRIDGE (All participants):
	a) Call the MCI Conference Bridge Operator on:
	1-800-857-7522
	b) Provide the "PASSWORD" HPN, when requested.
	c) Provide your name, if requested.
	d) The operator will connect you to the bridge.
3)	Any person can access the bridge, as long as they have the "800" number and the "PASSWORD". The bridge, however, will be set up for a maximum number of six (6) people.
4)	If you choose to leave the bridge you simply hang-up. To return to the bridge, you follow the same procedure as outlined in STEP 2.
5)	If there is a concern or it is necessary to add additional people to bridge, the Mock-NRC ENS Communicator will ENTER **0* to connect the Bridge Operator.

GUIDANCE FOR ACTIVATING AND ACCESSING THE MOCK HPN CONFERENCE LINE

EPMISC/chron/WP/16

GUIDANCE FOR ACCESSING THE MOCK HPN CONFERENCE LINE

- 1) TO ACCESS THE CONFERENCE BRIDGE (All participants);
 - a) Call the MCI Conference Bridge Operator on: 1-800-857-7522
 - b) Provide the "PASSWORD" HPN, when requested.
 - c) Provide your name, if requested.
 - d) The operator will connect you to the bridge.
- 2) Any person can access the bridge, as long as they have the *800* number and the *PASSWORD*. The bridge, however, will be set up for a maximum number of six (6) people.
- 3) If you choose to leave the bridge you simply hang-up. To return to the bridge, you follow the same procedure as outlined in STEP 2.

GUIDANCE FOR ACCESSING THE MOCK HPN CONFERENCE LINE

EXERCISE EVALUATION OBJECTIVES

ComEd Objectives

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State of Illinois Objectives

BYRON 1995 GSEP EXERCISE November 15, 1995

EVALUATION GUIDANCE

Scoring of the exercise is accomplished by the evaluators assigned to each facility. Each Controller/Evaluator will be provided Evaluation Forms specific to the evaluator positions in their facility. Each Evaluation Package has the terminal and enabling objectives for their position and space to put comments applicable to each terminal objective. Also included are data sheets where you can keep a chronological log of observations. It is recommended that notes are kept of observations and the resultant comments be transferred to the evaluation forms later. The exercise should be when observations are made and afterward, the observations are judged, resulting in a more objective evaluation of performance.

After the exercise, the evaluators for each facility should meet to compare observations and judgements with the Lead Facility Controller presiding. This is where each of the enabling objectives should be scored. A full facility Evaluation Form should be filled out by the Lead Controller that contains all of the enabling objective grades. The following table contains the grading criteria for the enabling objectives:

<u>Outstanding (10)</u> - An enabling objective can be rated as OUTSTANDING if the objective was met satisfactorily while demonstrating exemplary performance through the use of unique procedures, equipment, training, or techniques that have not been dictated to the station by outside forces. The strength noted should have applicability to the other stations' EP programs. No problems were identified during the accomplishment of the objective.

Excellent (8) - An enabling objective can be rated as EXCELLENT if the objective was demonstrated satisfactorily but with a performance level that was above what would normally be expected.

Satisfactory (7) - An enabling objective can be rated as SATISFACTORY if the objective was demonstrated within acceptable performance at a level that would normally be expected.

<u>Minor problems (6)</u> - An enabling objective for which the facility demonstrated acceptable performance, but for which Minor Problems were encountered, none of which would have contributed to the failure of the objective under different circumstances.

Weak (3) - An enabling objective is WEAK if demonstration of the objective was minimally or marginally acceptable. Problems were noted that could have contributed to the failure of the objective under different circumstances, Corrective Actions are required to be included in the exercise evaluation.

<u>Not Met (0)</u> - An enabling objective can be rated as NOT MET if the demonstration was unacceptable under any circumstances. These involve serious problems which contributed to the inability to meet the performance criteria and require Corrective Actions included in the exercise evaluation.

Evaluation Objectives Selected for the 1995 Byron GSEP Exercise

Rev. 1, 08/14/95

" * " denotes a critical objective. Critical objectives are selected by facility Crtical Objectives for terminal objectives only. Shaded Objectives not Selected for the 1995 Byron GSEP Exercise. 1. FACILITY DIRECTION AND CONTROL Demonstrate the ability to staff an ERF. 1.a (CR, TSC, OSC, EOF, CEOF) Augment staff with personnel needed to assist with GSEP activities 1.a.1 (communicators, etc.) within thirty (30) minutes of an Alert or higher classification. (CR) Establish minimum staffing within thirty (30) minutes of an Alert or higher 1.a.2 classification during a daytime event and within sixty (60) minutes during an offhours event without pre-staging. (TSC) Provide OSC Director and OSC Supervisor within thirty (30) minutes of an Alert 1.a.3 or higher classification during a daytime event and within sixty (60) minutes during an off-hours event without pre-staging. (OSC) Rangen and Cherrite and references (1996, 1997), and provide and provide and support of the state of the fighter strendingerter strender gitter and the -E degle ter stallfunde en architecter Martin, that state states and states are states and there are Augment ERF staff beyond normal levels as needed to perform ERF functions. 1.a.6 (CR, TSC, OSC, EOF, CEOF)

1.b	Demon Commu respon	strate the ability to transfer Command and Control t and and Control from another Emergency Response sibility.	Facility/area of
	1.b.1	Recognize that minimum staffing exists in the facility/	(CR, TSC, EOF, CEOF)
		is accepting Command and Control.	(TSC, EOF, CEOF)
	1.b.2	Brief the minimum staff on the status of the event and plan of action prior to accepting Command and Contr	d the current proposed
	1.b.3	A turnover is made between the Emergency Directors	NAME AND ADDRESS OF TAXABLE ADDRESS OF TAXA
	1.b.4	Transfer Command and Control officially and annound ERFs involved and to offsite officials.	Contraction of the local data and the second data and the second data and the second data and the second data a
Columbus & respond to same	1.b.5	Transfer control of the Environs Teams.	(TSC, EOF)

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1.c	a structure and operate an ERF during an emergency event.		
	1.c.1	Direct activities of personnel in their respective and position-specific procedures.	(CR, TSC, OSC, EOF, CEO e areas as specified in the GSE (CR, TSC, OSC, EOF, CEO
	1.c.2	Perform the non-delegable responsibilities of a - Final decision to declare the emerge - Final decision to notify and make Pro- Recommendations to offsite authority - Authorization of personnel exposure emergency conditions. - Issuance of thyroid blocking agents and onsite personnel.	command and control to include ency classification. rotective Action ties. e beyond 10CFR20 limits under
	1.c.3	Perform duties in accordance with current pos	
	1.c.4	Prepare for a shift change within the facility. Not Selected for the CR,OSC,CEOF	(* TSC, *EOF
	1.c.5	Maintain a record of GSEP related events.	(CR, TSC, OSC, EOF, CEOF
	1.c.6	Establish priorities for plant tasks.	(CR. TSC
	1.c.7	 Antipation of the second s	entrikus Antonia antipista Antonia antipista
l.d	Demonst	rate the ability to interface with the NRC Site	
F	1.d.1	Provide access for the NRC Site Team.	(TSC, EOF
L	1.d.2	Provide an initial briefing to the NRC Site Team	
F	1.d.3	Introduce NRC Site Team to ComEd counterpart	1.001 001
	1.d.4	Provide the NRC Site Team with adequate and critical emergency response activities.	
	1.d.5	Provide answers to NRC Site Team questions a	(TSC, EC s soon as practicable. (TSC, EC

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2.8	Demo	ENTS, CLASSIFICATIONS AND PROTECTIVE ACTION RECOMMENDATIONS
	2.a.1	Determine conditions exceed an EAL Threshold Value within fifteen (15) minutes of reaching the threshold value for that EAL. (CR, TSC, EOF, CEO
	2.a.2	Declare the highest classification corresponding to the appropriate EAL. (CR, TSC, EOF, CEO
	2.a.3	Monitor EALs to see if conditions cause other EAL Threshold Values to be exceeded. (CR, TSC, EOF, CEOF
	2.a.4	Report if any EAL Threshold Values are exceeded to the facility with command and control. (CR, TSC, EOF, CEOF
2.b	Demon	strate the ability to identify and recommend protective actions. (*CR, *TSC, *EOF, *CEOF
	2.b.1	Recommend appropriate Protective Action Recommendations (PARs) within fifteen (15) minutes of an emergency classification . (CR, TSC, EOF, CEOF
	2.b.2	Implement appropriate protective actions for ComEd emergency workers considering: - Current plant status - Current dose assessment and projections - Current meteorology and expected weather conditions (CR, TSC, EOF, CEOF
2.c	Demons	trate the abliity to analyze events from available information. (CR, TSC, EOF, CEOF
	2.c.1	Use instrumentation displays to determine plant status and recognize abnormal conditions. (CR, TSC, EOF, CEOF)
	2.c.2	Develop strategies to bring the plant to a safe shutdown condition. (CR, TSC, EOF, CEOF)
	2.c.3	Assess equipment or component failures and develop corrective actions. (CR, TSC, EOF, CEOF)
L	2.c.4	Estimate core damage per procedures. (TSC, EOF)
	2.c.5	Identify actual and/or potential release paths. (CR, TSC, EOF, CEOF)

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_		3. NOTIFICATIONS	
3.a	Demon	strate the ability to make notifications of classifie	ed events to offsite officials (*CR, *TSC, *EOF, *CEOF
	3.a.1	Notify the appropriate States and local organization of classifying an event or a change of any condition via NARS or a backup means if NARS fails.	ns within fifteen (15) minutes
	3.a.2	Complete NARS forms correctly.	(CR, TSC, EOF, CEOF
	3.a.3	Notify the NRC as soon as possible after the State than one (1) hour after classifying the event.	notifications but not inter
	3.a.4	Complete Event Notification Worksheets correctly i System (ENS) open line is not being maintained.	
	3.a.5	Verify ANI and INPO notifications have been made	
3.b	Demons	strate the ability to provide information updates to	1
	3.b.1	Provide information updates to the States at least e using the State Agency Update Checklist (SAUC).	
	3.b.2	Complete SAUC forms correctly.	(CR, TSC, EOF, CEOF)
	3.b.3	Report significant changes in conditions to the NRC Event Notification System (ENS) open line is being (30) minutes through use of the Event Notification V not maintained.	as soon as possible if an

4.0	Demor	strate the ability to communicate with offsite agencies.
	4.a.1	(CR, TSC, EOF, CEOF Establish and maintain an Event Notification System (ENS) open line with the NRC upon request. (CR, TSC, EOF, CEOF
	4.a.2	Establish and maintain a Health Physics Network (HPN) open line with the NRC upon request. (TSC, EOF, CEOF
	4.a.3	Establish communications and exchange information with offsite agencies performing environmental monitoring. (EOF, CEOF) Not Selected for the TSC
	4.a.4	Establish communications and exchange information with State and County (EOF, CEOF)
	4.a.5	Contact vendor support organizations that can provide emergency assistance. (TSC, EOF, CEOF)
	4.a.6	Activate and/or verify operation of the Emergency Response Data System (ERDS). (CR, TSC, EOF, CEOF)
	4.a.7	Provide answers to offsite agency information requests. (CR, TSC, EOF, CEOF)
4.b	Demons (ERF) ar	trate the ability to communicate with other Emergency Response Facilities ad ComEd support groups. (CR, TSC, OSC, EOF, CEOF, JPIC)
	4.b.1	Exchange data and technical information between ERFs. (CR, TSC, OSC, EOF, CEOF)
	4.b.2	Establish counter-part communications with other ERFs. (CR, OSC, TSC, EOF, CEOF, JPIC (remote only))
	4.b.3	Establish communications with ComEd support groups/executives. (TSC, EOF, CEOF, JPIC)
	4.b.4	Provide/obtain technical information to/for the JPIC for use in media releases. (EOF, JPIC)

4.c	Demo	nstrate the ability to communicate within an ERF. (CR, TSC, OSC, EOF, CEOF, JPIC	
	4.c.1	Provide briefings and updates concerning plant status, event classification and activities in progress at least every thirty (30) minutes for the EOF and CEOF and per station procedures for the CR, TSC and OSC. (CR, TSC, OSC, EOF, CEOF	
	4.c.2	Share information within the ERF. (CR, TSC, OSC, EOF, CEOF, JPIC	
	4.c.3	Use Point History to provide plant technical information. (TSC, EOF, CEOF	
	4.c.4	Update status boards at least every thirty (30) minutes with current and accurate information. (TSC, OSC, EOF, CEOF	
and the second second	4.c.5	Maintain Significant Events Log. (TSC, EOF	
-		5. RADIATION PROTECTION	
5.a Demonstrate the ability to provide radiation protection for onsite personnel (CR, TSC, OSC, EOF			
	5.a.1	Obtain and/or document radiological survey information. (TSC, OSC Not Selected for the CR	
	5.a.2	Provide or ensure radiological protection. (TSC, OSC Not Selected for the CR	
	5.a.3	Issue and control dosimetry. (OSC	
	ે તે	orteitenervelleren, de entelefte efrestellerentestelleren d' vielleftende effe enteleftenderen. Fiel-plant	
	5.a.5	Determine need for and administer thyroid blocking agent. (TSC, OSC, EOF, CEOF)	
5.b		ected for the CR	
	5.b.1	Evaluate onsite radiological information. (TSC, OSC, EOF, CEOF) Not Selected for the CR	
	5.b.2	Monitor, track and document radiation exposure to in-plant personnel. (OSC)	
	5.b.3	Evaluate personnel exposure against administrative and 10CFR20 exposure limits. (TSC, OSC, EOF, CEOF)	
	5.b.4	Evaluate projected exposures and implement ALARA practices to reduce exposure to in-plant personnel. (TSC, OSC) Not Selected for the CR	

5.c	Demonstrate the ability to establish and monitor effectiveness of ERF radiological controls. (TSC, OSC) Not Selected for the EOF (Zion only)				
	5.c.1	Perform habitability surveys. Not Selected for the EOF (Zion only)	(TSC, OSC)		
	5.c.2	Establish radiological access control. Not Selected for the EOF (Zion only)	(TSC, OSC)		
		Sterrenten Berr Stutter im der Berr Berr verlich verlich			
	6. ENVI	RONS ASSESSMENT AND MONITORING (E . Enviror	as Drill Objective)		
6.8	Demon	strate the ability to determine the magnitude of the s	source term of a release. (TSC, EOF, CEOF)		
-	6.a.3		n de la companya de l		
0 h		Calculate release rates for unmonitored releases.	(TSC, EOF, CEOF)		
6.b	Demonstrate the ability to perform offsite dose projections.				
	Sari F.	Aller affente (aller affente) (aller and the free designation and Aller affente (aller a feature) (aller aller and all all all all all all all all all al	(TSC, EOF, CEOF)		
	6.b.2	Determine or confirm Event Classification using environ - computer programs or - manual calculations	ns sample data and:		
	States and the second second second		(TSC, EOF, CEOF)		
	6.b.3	Determine or confirm Protective Action Recommendati sample data and: - computer programs or - manual calculations	ons using environs (TSC, EOF, CEOF)		

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6.c	Demonstrate the ability to obtain and use meteorological data(CR, TSC, EOF,CEOF)				
	6.c.1	Obtain and assess meteorological data and foreca - Demand Poll - Contractor Services - Point History - Plant Instruments - A-Model - other (e.g., radio station) Not Selected for the CR	(TSC, EOF, CEOF)		
	6.c.2	Determine stability class from: - Demand Poll - Delta T (°C/100m)/Sigma Theta - Point History - Contractor Services - other			
	6.c.3	Determine affected sectors based on meteorologica Not Selected for the CR	(TSC, EOF, CEOF) al and dose modeling data. (TSC, EOF, CEOF)		

6.d	Demonstrate the ability to direct Environs Team activities. (E) (TSC, EOF)				
	6.d.1	Initially assemble, brief and dispatch the Environs Teams w minutes of determining need for Environs Teams Or from de Emergency.	the destruction of the		
	6.d.2	Use the GSEP radio or backup means to communicate with (Including using call letters every 15 minutes per FCC require	Faultan T		
	6.d.3	Direct Environs Team movement through the life - ComEd and/or IDNS Maps - input from Safeguards Specialist or Security Direct - other information (i.e., County EOCs or LLEAs)			
STUDY MINISTRATING	6.d.4	Formulate sampling strategy.	(E) (TSC, EOF)		
		The million and the second finance is increased and example Regularization from the barren	(L) (ISC, EOF)		
	6.d.6	Keep Environs Teams aware of critical information such as: - release status - met data - plant status - PARS - command and control status - event class - findings from the other Env. Team(s)	sification (E) (TSC, EOF)		
	6.d.7	Monitor and record personnel exposure to the Environs Team			
	6.d.8	Obtain exposure approvals for the Environs Teams.	(E) (TSC, EOF)		
	6.d.9	Assess the radiological protection needs of the Environs Teal equipment and thyroid blocking agent.			

6.e	Demor perfor	nstrate the ability of the Environs Teams to collect environs samples m environmental monitoring.	and (E)	I (ET
	6.e.1	Conduct an inventory of equipment per station procedures.	Ch. Prostration and	(ET
	6.e.2	Obtain dose rate measurements and collect environmental samples in accordance with approved procedures for: - water samples - soil samples - vegetation samples - snow samples		(ET
	6.e.3	Collect and evaluate air samples for: - iodine activity - particulate activity		
		- Experience second a complete second sec 	The second	(ET
	6.e.5	Use the ComEd and/or IDNS maps.		(ET)
	6.e.6	Use the GSEP radio or backup means to communicate with ERFs.		(ET)
	6.e.7	Maintain a record of GSEP related events.		(ET)
	6.e.8	Simulate the replacement of environmental TLDs.		(ET)
	6.0.3	Package, label and store all required environs samples for the analysis	lab.	(ET)
	6.e.10	Demonstrate use of monitoring equipment including: - personal dosimetry - radiation monitoring instrumentation	(E) (
	6.e.11	Perform Environs Team duties in accordance with approved procedures		ET)
	6.e.12	Demonstrate health physics, ALARA and contamination control practices		

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6.1	Demor	nstrate the ability to perform as an Environs Group. (E) (TSC, EOF
	6.f.1	Execute the responsibilities of Environs Director/Staff in accordan approved procedures.	A 2 Street and Conservation and production of the second state
	6.1.2	Maintain a record of GSEP related events. (F	E) (TSC, EOF
	6.1.3	Provide environs data to the ODCS Specialist.	(TSC, EOF
		net and a second se The second se The second s The second seco	in a constant of the second
		7. IN-PLANT TEAM PERFORMANCE AND CONTROL	
7.8	Demon	strate the ability to dispatch and control In-Plant Teams (CR, T	SC, *OSC)
	7.a.1	Assemble In-Plant Teams.	(OSC
	7.a.2	Brief In-Plant Teams on their tasks and radiological conditions/haz dispatching. Not Selected for the CR	and a second
	7.a.3	Dispatch In-Plant Teams.	(CR, OSC)
	7.a.4	Prioritize personnel resources for In-Plant Teams.	(CR, OSC)
	7.a.5	Ensure Environs Teams are dispatched from the OSC without dela	Contraction of the local division of the loc
	7.a.6	Debrief In-Plant Teams upon return to the OSC.	(OSC)
	7.a.7	Keep In-Plant Teams aware of critical information such as: - radiological status - plant status - command and control status - event classification	(CR, OSC)
	7.a.8	Monitor activities of In-Plant Team such as: - problems - dose rates - job progress	(CR, OSC)
	-7, 3,62	Annan de la companya de la companya estata que protectiva de la companya de	

7.b	Demonstrate the ability of In-Plant Teams to perform their assigned functions(OS			
	7.b.1	Perform assigned task(s).	(OS	
_	7.b.2	Locate and demonstrate use of personnel protection equipment.	NAME AND DESCRIPTION OF A	
	7.b.3	Demonstrate use of monitoring equipment to include: - personal dosimetry - radiation monitoring instrumentation	(050	
	7.b.4	Monitor personal exposure to radiation and keep within pre-estat administrative limits and 10CFR20 limits.	olished limits,	
	7.b.5	Maintain ALARA practices to reduce overall cumulative team rad exposure.		
	7.b.6	Communicate with ERFs while in the field.	(050	
	7.b.7	Locate, transport and demonstrate use of emergency equipment		
	7.b.8	Locate or identify need for spare parts.	(OSC	
Artement	7.b.9	Perform and document radiation surveys.	(OSC	
		8. SECURITY	(OSC	
8.8	Demonstrate the ability of the Security Force, Security Director and Safeguar Specialist to implement the Security Plan during an emergency other than a security event driven scenario		feguards han a R, TSC, EOF)	
	8.a.1	Respond to the emergency in accordance with the Security Plan a	and R, TSC, EOF)	
	8.a.2	Coordinate implementation of the Security Plan with the GSEP.	(TSC, EOF)	
	8.a.3	Coordinate emergency response action with offsite agencies.	(TSC, EOF)	
3.b	Demonstrate the ability to establish access control at the ERFs. (CR, TSC, OSC, EOF, JPIC)			
	8.b.1	Establish accord control	C, EOF, JPIC)	
	8.b.2	Ensure security practices do not impede emergency response.	, OSC, EOF)	

8.c	Demonstrate the ability to assemble, account for and evacuate onsite personnel. (CR, *TSC, EOF)			
			100, 201	
	8.c.3	Initiate search and rescue operations for missing personnel.	(TSC	
	8.c.4	Identify essential personnel within thirty (30) minutes after complet Accountability.		
	8.c.5	Initiate Site Evacuation when deemed appropriate and at least at a Emergency.		
	8 c.6	Plan and explain travel route for Site Evacuation, Environs Teams relief.		
	8.c.7	Arrange for offsite traffic control prior to initiating Site Evacuation.	(TSC, EOF)	
		San die erstelle eine die gestelle stelle stelle Dezember and die	100,001	

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10.a	10. EMERGENCY NEWS CENTER (ENC)/JOINT PUBLIC INFORMATION CENTER (JPIC Demonstrate the ability to exercise facility direction and control in the JPIC. (JPIC			
	10.a.1	Open the JPIC to the media within thirty (30) minutes of arrival of JPIC Coordinator or JPIC Staff.		
	10.a.2 Direct activities of personnel in the ENC and JPIC as specified in the GS and position-specific procedures.			
	10.a.3	a.3 Perform duties as specified in the GSEP and position-specific procedures		
	10.a.4	Conduct turnover of news center duties from Communications Services.	(JPIC	
	10.a.5	Establish rumor control activities.	(JPIC	
	10.a.6	Coordinate/exchange news information among ComEd and offsite spokespersons.	(JPIC	
	10.a.7	Monitor the media to detect and correct errors.	(JPIC	
	10.a.8	Maintain a ComEd representative in the JPIC at all times.	(JPIC	
	10.a.9	Maintain a chronological event description log.	(JPIC)	
	10.a.10	Maintain a record of GSEP activities.	(JPIC)	
10.b	Demons	trate the ability to provide media briefings.	(JPIC)	
	10.b.1	Ensure technical accuracy of the briefings.	(JPIC)	
	10.b.2	Present briefings on schedule and after a significant event while in a Site General Emergency.	and a second sec	
	10.b.3	Prepare information at a level that the public can understand.	(JPIC)	
	10.b.4	Use visual aids as necessary to support media briefings.	(JPIC)	
	10.b.5	Respond to media requests for information.	(JPIC)	
10.c	Demonstrate the ability to provide press releases.		(JPIC)	
	10.c.1	Ensure technical accuracy of the press releases.	(JPIC)	
	10.c.2	Deliver press releases after a significant event while in a Site or General	(JPIC)	
	10.c.3	Prenare information at a level that the	(JPIC)	
	10.c.4	Obtain PIM approval for proce calcourse	(JPIC)	

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EXERCISE CONTROL MESSAGES

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INITIAL CONDITIONS FOR COMED PARTICIPANTS EXERCISE CONTROL MESSAGES A-MODEL MESSAGES AND REPORTS EXERCISE CONTINGENCY MESSAGES EXERCISE TERMINATION MESSAGES

CONTROLLER GUIDANCE : TSC

- 1. The TSC Lead Controller has responsibility to make the initial exercise notification to the NRC Operations Center.
- 2. All procedures in force should be used by Participants.
- Do not direct Participants to complete forms or documentation. All documents which are prepared shall be marked "FOR GSEP EXERCISE USE ONLY".
- 4. Appropriate notifications to offsite agencies shall actually be made to the agency (when participating) or to those numbers provided (when simulated). Controllers shall not permit exercise notification to be made non-participating offsite agencies.
- 5. TSC participants are expected to react to information conveyed from the Control Room, or displayed on appropriate data screens. Information which duplicates information sources (computer print outs [A-Mode!], SPDS and computer displays, etc.) that are not available in the TSC may be posted at the applicable times, and in the appropriate locations, for participants to read.
- Participants and Controllers should follow station-specific procedures for TSC accountability when a station assembly is conducted as part of the exercise.

For those exercises in which a pre-determined Point History is used (GSEP.EX), the TSC Lead Controller has responsibility for initializing the exercise database.

- The TSC Lead Controller has responsibility for starting ERDS when contacted by Control Room Controllers.
- If evacuation of TSC personnel becomes appropriate during the exercise, participants should be directed to formulate an appropriate evacuation plan. Unless directed otherwise by the Lead Facility Controller, an actual evacuation of the TSC should not be performed.

<<< *** THIS IS AN EXERCISE *** >>>

CONTROLLER GUIDANCE : CEOF, EOF, JPIC

- 1. All procedures in force should be used by Participants.
- 2. Do not direct Participants to complete forms or documentation. All documents which are prepared shall be marked "FOR GSEP EXERCISE USE ONLY".
- Appropriate notifications to offsite agencies shall actually be made to the agency (when participating) or to those response cell numbers provided (when simulated). Controllers shall not permit exercise notification to be made non-participating offsite agencies.
- 4. Participants are expected to react to information conveyed from the Control Room, or displayed on appropriate data screens. Information which duplicates information sources (computer print outs [A-Model], SPDS and computer displays, etc.) that are not available in a facility may be posted at the applicable times, and in the appropriate locations, for participants to read.
- 5 If evacuation of facility personnel becomes appropriate during the exercise, participants should be directed to formulate an appropriate evacuation plan. Unless directed otherwise by the Lead Facility Controller, the actual evacuation of any emergency response facility should not be performed.
- The EOF Lead Controller has responsibility for making the end of exercise notification to the NRC Operations Center.

CONTROL MESSAGE CM-1

TIME: 0700 - 0730 (T-030 - T+000)

ISSUED TO: NUCLEAR DUTY OFFICER

PREREQUISITE: EXERCISE HAS BEEN INITIATED

MESSAGE

The following are INITIAL CONDITIONS for the Byron 1995 Exercise :

- 1. A major ice storm moved through Wisconsin and the northern Illinois area yesterday and last night, leaving many area roads slippery and roads in some areas ice-covered and extremely hazardous. The storm affected an area from central Illinois north of Interstate 80 to north of the Wisconsin border and east to Lake Michigan. The storm generally affected the areas around Zion, Byron, and Braidwood.
- Scattered power outages have been reported which are affecting about twelve thousand persons, with the most severe interruptions being in the areas of Freeport, DeKalb/ Sycamore, Marengo, and Elgin (all in Illinios).
- 3. Overnight you have been informed of the following events occurring at Byron Station :
 - An overnight power drop from 95% to 38% to support a Unit 1 containment entry to repair a known 2 gpm leaking valve.
 The containment team entrend at 2500
 - b. The containment team entered at 0500 and encountered unexpectedly high radiation levels at 0530 and exited without completing valve repairs.
 - c. The outer containment personnel hatch was found to be damaged when the team exited containment. This is an LCO condition.
 d. A Failed Fuel Monitor class of the team exited containment.
 - A Failed Fuel Monitor alarm occurred at 0530.
 A chemistry sample was collected at about 055
 - A chemistry sample was collected at about 0630 which had results of 2.1 μCi/g of Dose Equivalent Iodine-131. A confirmatory chemistry sample is in progress. The chemistry results puts Unit 1 in an LCO for coolant activity.
- 4. The weather forecast for today (WGN radio 0630 forecast) is for freezing rain to end this morning with overcast skies clearing after noon, colder than normal temperatures with a high of 38°F, and winds from the east to northeast at 10 mph. Schools have been cancelled for the day in several central Illinois counties, including Ogle, Winnebago, and Boone.
- 5. Attached is the ComEd System Status Report for November 15, 1995.

EPEXER/byron/cm-msg/1

Station	Dre	sden	Ruad	Cities	s La	Salle	21	on	By	ron	Bra	idwood	TSyste	Statu:
Unit	2	3	1	2	1	2	1	2	1	2	1	2	Statu	IS
Power (by %) 10 80 60 40 20				150% 	52%		70%	95%	38%	•5% 	8%	93%	Capab	AMBER 11 1ty 16321
0 Miwie	834	887	833	833	588	1130	760	1031	450	1140		1093	Peak	Load Est.
online 400													Yester	day Peak
outage 500													Res	nday Peak 14398 erves System
Outage 500 Online 400 300 200 100		Online			Contine		Online	Online					Res	nday Peak 14398 serves
Dutage 500 Duline 400 300 200 100 0		Online		Ontine	Contine X	Online X	Online	Online X			 000ine X		Res ComEd 2669	rday Peak 14398 erves System 1604
Durage 500 200 300 200 100 0 5tatus	Online		<u>Online</u>	And a second s	or where the second	PARTICI DEPARTACIÓN DE	ADDRESS OF TAXABLE PARTY.	No. of Column Street, or other Designation	X	Online X	X	 	Res ComEd 2669 Porch	nday Peak 14398 erves System 1604 ower Sales
Durage 500 200 200 100 0 5tatus 005 C0			<u>Online</u>	And a second s	X	PARTICI DEPARTACIÓN DE	ADDRESS OF TAXABLE PARTY.	No. of Column Street, or other Designation	of the local division of the local divisiono		X X	onime X	Res ComEd 2669	rday Peak 14398 erves System 1604
Outage 500 Online 400 300 200 100 0			Online X	X	or where the second	X	X	X	X X	Online X X	X X X	onime X X X	Res ComEd 2669 Porch 91	rday Peak 14398 serves System 1604 wer Sales 1965
Outage 500 Online 400 300 200 100 0 Status 005 C0 ssues	online X X	X	Online X X	X X X	X X	PARTICI DEPARTANCE	ADDRESS OF TAXABLE PARTY.	X X	X	Online X	X X	onime X	Res ComEd 2669 Porch	rday Peak 14398 serves System 1604 wer Sales 1965

**

8:01AM	ComEd Nuclear Operati	ons Dai	ly Plant Statu	LS NOV 15 1995
Dresden	THIS IS AN EXER	CISE	Updated:	Nov 15 1995.7:04AN
	Unit : 2 Status : Online		Unit: 3	Status: Online
00S:	TIPs ; 2B SDC ; 2/3 SBGT	005:	TIPS ; 3A Inst pressor ; ECCS	rument Air Com- S Jockey Pump
LCO's:	Service Water Rad Monitor ; 2/3A SBGT (3 of 7)	LCO's:	None.	
Other:	Increase in Drywell air activity - investigating	Other:	None.	
EGC:	OffEGC	EGC:	Off EGC	
NRC:		200.	OILEGC	
Comment:	Duty Officer : Shift Manager ; GS	EP TSC ta	abletops today	
Quad-Cities 7:08AM			Updat	æd: Nov 15 1995
	Unit: 1 Status: Online		Unit: 2	Status: Online
008:	1B2 & 1B3 FW Htr ; normal LCV in manual ; 1601-33C Vac- uum Breaker indication	005:	None	
LCO's:	None	LCO's:	None	
Other:	Weekend Load Drop - Nov 18 Turbine Weekly	Other:	None	
EGC:	Inop.	EGC:	Inop.	
NRC:	ENC call made for fire in MCC 28- interest. Fire was extinguished by	-1 cubicle	vesterday due to .	potential public
Comment:	Duty Officer - A. Misak		Burne	

ComEd Nuclear Operations Daily Plant Status NOV 15 1995

8:01AM

THIS IS AN EALINGIDE

LaSalle

Updated: Nov 15 1995 7:24AM

And the set of the set	Unit: 1 Status: Online		Unit : 2 Status: Online
OOS:	1B VT Exh Fan ; TIP Ball Valves; 1A CW Pump; 2nd stage reheat; 1A TDRFP; B Amertap unavail.	005:	2A RT Pump; D HD Pump; 2C CW Pump
LCO's:	None	LCO's:	None
Other:	1B RR pp ongoing, LOS-DG-M1 LOS-SC-Q1 SAC concerns ; unit in coastdown to L1R07 on 1/2- 7/96	Other:	2B TDRFP uncoupled test; PORC today on S/U issues
EGC:	Inop.	EGC:	Inop.
NRC:			anop.
Comment:	Limited U1 load following capabil	lities	
Comment: Zion	Limited U1 load following capabil	lities	Updated: Nov 15 1995 7:06AN
	Limited U1 load following capabil Unit : 1 Status : Online	lities	
		lities OOS:	
Zion	Unit : 1 Status : Online 1A BA Transfer Pump; 1C CW		Unit : 2 Status: Online
Zion OOS:	Unit : 1 Status : Online 1A BA Transfer Pump; 1C CW Pump; 1A C/CB Pp	OOS:	Unit : 2 Status: Online 2C SW Pump; 2C CW Pump
Zion OOS: LCO's:	Unit : 1 Status : Online 1A BA Transfer Pump; 1C CW Pump; 1A C/CB Pp None	OOS: LCO's:	Unit: 2 Status: Online 2C SW Pump; 2C CW Pump None PT-3C Thermal Overload Issue.

ait : 1 Status : Online F017A, 1A CV Bed, OB Sx sin CW M/U mt Air Lock, RCS Activity, condary Sources 38% power for cnmt entry, 2 m leak, Failed Fuel Alarm EGC liminary U1 chemisty sample	OOS: LCO's: Other: EGC:	pump; 2A SG PORV 2B D/G mon Letdown red Off EGC	
sin CW M/U mt Air Lock, RCS Activity, condary Sources 38% power for cnmt entry, 2 m leak, Failed Fuel Alarm EGC	LCO's: Other: EGC:	pump; 2A SG PORV 2B D/G mon Letdown red Off EGC	thly surv.
condary Sources 38% power for cnmt entry, 2 m leak, Failed Fuel Alarm EGC	Other: EGC:	2A SG PORV 2B D/G mon Letdown red Off EGC	thly surv.
n leak, Failed Fuel Alarm EGC	EGC:	Letdown red Off EGC /g	thly surv. uced to 75 gpm
		Off EGC	accu to 75 gpm
liminary U1 chemisty sample	e at 2.1 µCi,	/g	
t: 1 Status : Refuel		Updated: Unit : 2	Nov 15 1995 7:47AM
SAC/OB VC; OC CW makeup	OOS:	the second barrends down a development of the second of the second second second second second second second se	Status: Online
/C, 1B H2 monitor	LCO's:	2A CD/CB, 20	A DEVICE AN ADDRESS OF ADDRESS AND ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDR
/C, 1B D/G run; 1B Cnmt er; VI chiller, TSC chiller	Other:	2A CD/CB pu	The second se
for start-up testing			
	EGC:	Off FCC	
	EGC:	Off EGC	
	/C, 1B D/G run; 1B Cnmt ler; VI chiller, TSC chiller, SAC & air Dryer 05 RTS: 11/22/- 95 of or start-up testing oduled	VC, 1B D/G run; 1B Cnmt Other: ler; VI chiller, TSC chiller, SAC & air Dryer 05 RTS: 11/22/- 95 for start-up testing duled EGC:	VC, 1B D/G run; 1B Cnmt Other: 2A CD/CB pu ler; VI chiller, TSC chiller, SAC & air Dryer 05 RTS: 11/22/- 95 for start-up testing cduled

CONTROL MESSAGE CM-2

TIME: 0700 - 0730 (T-030 - T+000)

ISSUED TO: CONTROL ROOM

PREREQUISITE: EXERCISE HAS BEEN INITIATED

MESSAGE

The following are INITIAL CONDITIONS for the Byron 1995 Exercise :

- 1. A major ice storm moved through the Ogle County, Illinois, area yesterday and last night, leaving most area roads ice-covered and hazardous. The storm affected an area from central Illinois north of Interstate 80 to north of the Wisconsin border and east to Lake Michigan.
- The weather forecast for today (WGN radio 0630 forecast) is for freezing rain to end this morning with overcast skies clearing after noon, colder than normal temperatures with a high of 38°F, and winds from the east to northeast at 10 mph.
- 3. Attached is the 0700 Control Room Shift Turnover Package.

BAP 335-1T1 (FACEMENE) Revision 7

Shift Engineer Turnover

Mode: ONE	UNIT 1 %Pwr.38		NIT 2
	MW:450	Mode: ONE	%Pwr: 95 MW:1140
IN P	ROGRESS	IN DO	DGRESS
CNMT ENTRY @ 0500 TO F 1930-RPT EXITED CNMT D RECIEVED FAILED FUEL N 1071FIED TO SAMPLE RCS 1535- OUTER CNMT PERS 1630- RCS CHEMISTRY SA	UE TO ELEVATED RADS >5R. IONITOR ALARM, CHEMIST S ONNEL HATCH BROKEN	STEADY STATE REDUCED LETDOWN TO 75 G	
LCOAR ECONDARY SOURCES	SURVEILLANCE	LCOAR	SURVEILLANCE
NMT AIR LOCKS CS ACTIVITY	LEAKRATE	250002C 2A 5/3 PORV	
MAINTENANCE	*005 / RTS / T/L 1AF 017A-DEL	MAINTENANCE	*005 / RTS / T/L
	1A CV MIXED BED	272 470 440 4	and a second sec
222 /G JACKET H2O SW PT? ON DEL	OB SX BASIN CW M/U 1G STM DMP OC CW M/U PP DISCH	27/3 HTR MAG determed OC/S PENDING	
PEN	IDING		
The P		PEND	ING
	THIS IS AN	EXERCISE	
ECKING MPT N2 1X/4HR UI *ITEMS TO DISCUSS WITH S ACTIVITY	VLESS RATE INC	*ITEMS TO DISCUSS WITH U	NIT OP ENGINEER / SOS

Shift Engineer Turnover

* "orary Procedures	X SEN	A		IISTRATIVE			
orary Alterations	APRIL OF THE PARTY OF THE PARTY	the second s	X	SCRE Turnover-Admin	X	* General Access Keys	1,
Aur's		iel Operating Orders	×	SS Turnover-Admin	X	* Temp Lifts	+;
SE is the Security Admin.		eillence Schedule ogbook	X	RWS Turnover-Admin	X	Degraded Equipment Log	1;
and the second s	1 96 5	Дооок	X	* New Fuel Vault Key	X	1	+
2RY8000A, OC CW M/U P	P MAN. DI	SCH VLV					
		OFFICER		DUTY	STAT	ION MANAGER	
RASMUSSE			B. KOUBA				
	the second s	41		000000	192.0		
TURNOVER ITEM	S MOREL						
SO Shiftiy and Daily Sun	NO!		-	COMMEN	115		
NSO Shiftiy and Daily Sun Reporting/PiF/NRC/Corpo	NO!	OPR01J	1 20.0	and the second second before a second s	Concession of the state		
NSO Shiftly and Daily Sun Reporting/PIF/NRC/Corpo SSEP Conditions	nate NO/	OPR01J	J.2D S	G FLOW MISMATCH ALA	Concession of the state		
NSO Shiftly and Daily Sun Reporting/PIF/NRC/Corpo SEP Conditions SPO/Division LD/System	A NO/ rate NO/2 YES	OPR01J	J,2D S	and the second second before a second s	Concession of the state		
NSO Shiftly and Daily Sun Reporting/PIF/NRC/Corpo SEP Conditions RPO/Division LD/System Rediation Release	rate NO/ YES YES	OPR01J	J.2D S	and the second second before a second s	Concession of the state		
NSO Shiftiy and Daily Sun Reporting/PIF/NRC/Corpo SEP Conditions PO/Division LD/System Radiation Release Radiation Precautions	A NO/ rate NO// YES YES	OPR01J	J,2D S	and the second second before a second s	Concession in the state		
NSO Shiftiy and Daily Sun Reporting/PiF/NRC/Corpo	rate NO/ YES YES YES YES	OPR01J	J,2D S	and the second second before a second s	Concession in the state		

Note 1: This review shall include a check against the required operable safety train. Toward this effort, the specfic EPN for applicable safety related locked equipment should be recorded on the turnover form.

MISCELLANEOUS

ICE STORM IN AREA ALL NIGHT, ROADS HAZARDOUS

debris in river

THIS IS AN EXERCISE

TIME	DATE	Cult	CD NSO, Turnovers, Logs, M	CR Tour, and Daily Orders
	The set of the design of the set	SHIFT	OFF-GOING	ON-COMING
0630	9/1/95	93 to 92		

File Location: 1.02.0162

BAP 335-172

Station Control Room Engineer Turnover UNIT 1 UNIT 2 Mode: ONE %Pwr:38 Mode: ONE %Pwr:95 Ca:547 par MW:440 Ca:95 ippm MW: 1135 IN PROGRESS IN PROGRESS RAMPED TO 38% FOR CNMT ENTRY TO REPAIR 1CV222 STEADY STATE CNMT ENTRY @ 0500 TO REPAIR 1CV222 RECIEVED FAILED FUEL MONITOR ALARM, CHEMISTRY COMPUTER INVERTER BROKE=>ON DIRTY POWER NOTIFIED TO SAMPLE RCS 0535- OUTER CNMT PERSONNEL HATCH BROKEN LOOAR ENTERED 0630- RCS CHEMISTRY SAMPLE RESULTS= 2.1 MICROCURIES/GRAM OAD repair of Power System Stabilizer -Refer to SPOG 1-3-F-1 - hold for parts (1 - 7 days) LCOAR SURVEILLANCE LCOAR SURVEILLANCE VO VQ SECONDARY SOURCES 25D002C CNMT AIR LOCKS **RCS** Leakrate 2MS018A RCS ACTIVITY MAINTENANCE OOS / T/L / RTS MAINTENANCE 00GO64-DEL OOS / TAL / RTS 1AF017A 2MS018A OOS 278 HTR MAGNETROL 1CV222 0CW1008 Computer Inv 1G STM DUMP OC CW M/U PP DISCH 1B D/G JACKET WTR SW 2A S/G PORV SETPT7-DEL MAJOR PROC. RTS MAJOR PROC. RTS TAL TAL PENDING PENDING RCFC BOS=>FRIDAY DAYS Computer inverter OOS=> testing AGAIN FH BLDG CRANE OOS=> FRIDAY DAYS THIS IS AN EXERCISE Containment Release Package AVAILABLE 100450=>REPACK 9/4 CST LINE TO M/U HEADER HIGH POINT VENT REPAIR - still planning repair FEED AND BLEED GEN=> Only when high H2 temp in - DAY SHIFT 1C CD Pp backwash VLV 1CD038C REPAIR NEXT WEEK ** DIESEL SAC hooked up UNIT 1, tested OK

-1-

Station Control Room Engineer Turnover

ADMINISTRATIVE	1111	COMMENTS
Temporary Procedures	X	
T moorary Alterations	2	2) MS/FW PEN COOLING - mod PENDING
ion Carda	X	
Unit 0 Logbook	X	
Unit 1 Logbook	X	
Unit 2 Logbook	X	
Train Inop. Status Board	X	
Degraded Equipment log	X	집에서 집에 집에 걸렸다. 이 것 같아요. 그는 것 같아요. ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?
Aux Electric Room	X	
Daily Orders	X	
Special Operating Orders	X	양 의 모그는 것 같은 것 같이 같은 것 같이 가지 않는 것 같은 것 같이 없습니다.
*PIFs	12	12) 0VC044Y, 2PR028J, and U2 Delta-T Defeat Switch
AR FOCUS Report Review	13	13) FOCUS DUE 1300

TURNOVER ITEMS	YESINO	COMMENTS
NSO Shiftiy and Daily Surv.	YES	COMINEN19
SSPS Channels/Bistables	YES	
SYS - Safeguards	NO/3	3) 1AF017A, 2MS018A HAD INTERNAL LEAKAGE
SYS - Primary	NO/4	4) 2A CV MIXED BED DP HIGH , 125 PSIG DP LIMIT
SYS - Balance of Plant	NO/5	5) CW MALTO OR ISOLATED AR ROSCIUSE ASSAULT
Nuclear Instrumentation	YES	5) CW M/U TO OB ISOLATED, 1B RCFC VIBS, 1SD045D STM LEAK LOWER TO COOLER WS ISOLATED
MCB Instrumentation	NO/7	7) 21 LPCODE MONITOR (ENTER LOCAR IN CROSSING
MCB Controllers	YES	7) 2LI-PC006 MONITOR (ENTER LCOAR IF BECOMES INOPERABLE)
Electrical Distribution - AC	NO/9	1LI-PC002 &3 (3" DEVIATION)ICONIC SPOKE TOGGLES IN/OUT 9) 1E & 1W MPT N2 LEAK MONITORING
Electrical Distribution - DC	YES	The STORE THE LEAK MONITORING
7/Division LD/Systam	YES	
Protection	NO/12	12) RSH CO2
Slowdown (CW/SD)	NO/13	13) CW B/D TARGET 13,000 GPM,
Alarms (MCB)	NO/14	14) 11.2 CMOTO INVEGTED TROUBLE IN
Chemistry	NO/15	14) U-2 CMPTR INVERTER TROUBLE, U1 pen. cooling, 2MS018D, power stabilizer trip 15) U-1 RCS ACTIVITY
Radiation Precautions	YES	
MIS to swap monitors NEXT	WEEK	THIS IS AN EXERCISE
EMIND CREWS TO KEEP UP	WITH SE	NOTES
		MISCELLANEOUS

INNER FH BLDG ROLLUP DOOR OOS FOR MM'S

LOTS OF DEBRIS IN THE RIVER

Post Review: MCR Tour, Un	it NSO, CD NSO Turnovers,	Logs.	Daily Orders	
TINGT	And a state of the second	and the second division of		

	TIME	DA	TE	SHIFT	
	0630	9/1	/95	93 to 92	
	OFF-GOING		White can be to get a function of some state of some same	ON-COMING	
		SC	RE		
A Property of the local data and the second data and the second data and the second data and the second data and		ADMIN	SCRE	and many real and a finite sector of constraints or constraints of the sector of the sector of the sector of the	
L		ST	A	an a financial a sub-state of the second state of the second state of the second state of the second state of the	
		(Fir	nal)	lege have not a high descent of the second of the second second second second second second second second second	

FILE LOCATION: 1.02.0167

RADWASTE SUPERVISOR TURNOVER

TANK LEVELS	and service of	DA	0B	OC I	
SRST		68%		00	THE TOP OF DESIGNATION OF THE PARTY OF THE P
RELEASE TANKS	and the second second second second	89%		de rou e construction e su traditation de la construction de la	09psi
WX MONITOR	WX	AN OVERAL PROPERTY AND ADDRESS OF A DESCRIPTION OF A DESC	90%	Charlest and states of the	and the second states of
AUX. BLDG. EQUIPMENT	CONTRACTOR AND THE RECEIPTION OF THE RECEIPTION	6%	7%		The second s
TURBINE FLOOR	WE	3%	8%		and the second second second second
	TF	23%	19%	A PROPERTY AND AND AN ADDRESS OF THE ADDRESS OF	
TURBINE EQUIPMENT	TE	25%	20%		and a state of the
LAUNDRY	WY	7%	THE R. P. LEWIS CO., INC., NAMES AND ADDRESS OF TAXABLE PARTY AND ADDRESS OF TAXABLE PARTY ADDRESS OF TAXABLE PARTY.	and the second se	
CHEM/REGEN WASTE	WZ	29%	5%	12%	Contraction and
AUX. BLDG. FLOOR	WF	A PARTY NAME AND ADDRESS OF A DREAM AND ADDRESS OF A DREAM AND ADDRESS ADDRESS ADDRESS ADDRESS ADD	12%	9%	and the second second
BLOWDOWN MONITOR	NAME AND ADDRESS OF TAXABLE PARTY OF TAXABLE PARTY.	13%	58%	an and a second second	and an including the second second second second
HUT	SD	11%	20%	0%	
No. of Concession, Name of Con		36%	85%	070	0.00
AB MONITOR		10%	9%		2.25psig

DEMINS STATUS	0A	OB	0C	OD
CONDENSATE POLISHERS	STBY	STBY	STBY	STBY
RADWASTE DEMINS	STBY	ROUGH	005	SIBI
BLOWDOWN DEMINS	U-1	U-1	U-2	U-2
MAKEUP DEMINS	STBY	STBY		

S/G BLOWDOWN FLOW	AT	BI		
UNIT 1 UPPER	20	0	0	D
A REAL PROPERTY AND ADDRESS OF THE OWNER OWN	30gpm	30 gpm	30,00m	30 gpm
UNIT 1 LOWER	40 gpm	40 gpm	40,00m	0 _{apm}
UNIT 2 UPPER	Ogen	0 gpm	Qapm	0
UNIT 2 LOWER	70 gpm	70 gpm	the survey of the local division of the loca	Ugpm
A DESCRIPTION OF A	- Marris	1 U gpm	70 ppm	70.000

RE	LEA	SEIN		OGRE	SS
-		LIC	UID		
017			26	T	a successi di successi
		GASI	EOUS	3	
0A	08	00	OD	0E	UF
FLO	w		4		-2
Concernance of		0.		0	-2

CONTRACTOR OF A DESCRIPTION OF A DESCRIP	and a state of the	- Wh
SD	330gpm	310ga

GDTS	0A I	08	00	And in case of the local division of the loc	And the subscription of th	
STORAGE DATE		00	00	D	OE	OF
PRESSURE	6psig	6psig				and the second se
STATUS	STANDBY	STANDBY	4psig STANDBY	STANDBY	5psig	66psig
COMPRESSORS	OFF	OFF		STANDET	STANDBY	SERVICE
VENT HEADER PRESSURE	2.3psig		l			

OOS HUNG ON CP CAUSTIC TANK AND PUMPS.

COMMENTS

WROTE AR # 950047166 ON OWX02FA FOR WHEN IT GOES OUT ON HI DP. PRESENTLY AT 15 #.

1SD002D OOS- 1D S/G LOWER ISOL VLV .- FOR REPAIR OF FLANGE LEAK ON FLOW TRANSMITTER

AR# 950047413 WRITTEN 00D004D- PACKING GLAND NUT MISSING AR # 950047218 TO RECOAT TANK CP ACID TANK, DO NOT FILL UNTIL RECOATING IS DONE

HUNG OOS ON #1 WETWELL BLOWER- CKT.#7 ON OSTO1J- PER BAP 3000-7 ATTACHMENT B- #1 WETWELL IS A NON-PERMIT

OC SD MON TK IS OOS- MM'S DID NOT REMOVE ACTUATORS ON OWXO58C&D- PER R PETERSON- WILL TURNOVER TO DAYS OR DO FIRST SHIFT WEDNESDAY.

OD CP FLOW IND. INDICATING FLOW WHEN ISOLATED, AR #950047216 TOTALIZER COUNTING UP ALSO.

PE NDING WORK: -- WE SUMPS TO BE CLEANED NEXT WEEK STARTING ON TUE - 28 TENDON SUMP SELECTED FOR LEAD AS PART OF PMV TESTING

OA MUDS IN STBY WITH 160K OB MUDS IN STBY WITH 234K

COLUMN DESIGNATION

THIS IS AN EXERCISE

				BAP 335-114 PACEBALLE Revision 4
		and the second	LCOAR	
	16 IN LOOAR	r due to opiking	THE	
			THIS IS	S AN EXERCISE
		FP COMMENTS		NPDES COMMENTS
			ST	ON RECIRC4.5FT
			TR	ON LINE - OA TK @ 6%, OB TK @ 90%
THE	RY WILL TAK	ELED, AND TRY NOT	THERE ALSO. CHECK IT OUT T TO LET IT TURN INTO A 'RA'	NTS WERE PICKED UP. MOST OF THE BIG HOSE WAS WEST). SANDPIPER, HORSE TROUGH AND OTHER WHEN YOU GET TIME. WW ASKED THAT WE GET T-HOLE'. INPUT IS SO LARGE. ONCE WE STABILIZE, AY BE ON THE BACKSHIFTS. PANEL OP.
S'D 2RI IEN PUI TH OPE X26T R X01T R	E9160B CNM MPING DOWN RATING WITH ELEASE PAC ELEASE PAC	TISOL UNIT 2 DOOT	CAUTION CARD AT RADWAST PRESSURE ABOVE ZERO ON PO CATION	E PNL FOR OPERATOR TO MONITOR POINT TREND OINT TREND. SE TO PUSH AR FOR THEIR CONCERNS
		OF GDT- 1.5	276 02 8% 02	
******	SAVE	SAVE	SAVE-	SAVESAVE
MATER	AL CONDITI	HIFTLY MANAGEMEN ONSAUX. BLDII INTION TO AREA GE	NT FOCUS ITEMS WALKDOWNS NG. INCLUDING ECCS ROOMS [C INERAL CLEANINESS AND CLUT	TR-USE AR'S AS NEEDED.
FIRE	IFY ALL DEFI	GIENCIES INCLUDIN	G UNAUTHORIZED TEMP ALTS	WRITE AR'S HANG THE LAUNDRY THE
FIRE	IFY ALL DEFI	1	S ONAOTHORIZED TEMP ALTS,	NARE THEY OPERABLE? WRITE AR'S, HANG THE LAUNDRY TAGS
FIRE	DATE	SHIFT	OFF GOING	ON COMING

.

15

(Final)

File Location: 1.02.0164 BAP 835-175

mosaus Revision 4

Center Desk Operator Turnover

9

and a second sec	U1 MODE:ONE	%F	PWR:38	8 MW:4	40	IN OD	OGRESS
STATUS	U2 MODE:ONE	%F	WR:95			Ovc044y dmpr fic. works when str	oked with cits
		and the second se		Station of the station of the state	-	OD CHAR BOOSTER FAN - IN TAL	TILL TOMORROW
MUDS	Non-schement and part of the scheme of the scheme of	AI IAI	DRYER	S ON LIN	E		
OA:STBY	U1:WLU		The second second second second	/U2			
OB:STBY	U2:WLU		AS	U1 ES		WS TO UIAU SO COSRS THROTTL	ED TO 30% OPEN
[and the second second second second second second					TO INCREASE WS FLOW TO C	
4 -	ADMINIS	TRATIVE	E				
1.Tempora	ry procedures	States and the second second second			X	DEBRIS IN RIVER	
2.Tempora	ry Alterations				x	PEN	DING
3.Caution C	NAME AND ADDRESS OF AD				X		
4.Unit 0 Lo					X		
5.Center De	the second s				X		
6.Daily Ord	978	No ballie Group and a local data			X	SECURE OC MDCT FAN FIRST AND	START LAST DUE TO GEARBO
7.SE Notes					x	OIL PRESSURE LO ALARM	
0.Switching	Orders / BPO / Divi-	ion LD			X		
	oard Walkdown		-		x		
So. Ist Shift A	COAR	Dense roots the carbonal of the statements of the			x		
and the second data and the second data and	And in a design of the party of	A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY A REAL PROPERTY A REAL PROPERTY A	OOS/F	NAME AND ADDRESS OF TAXABLE PARTY.		Surveillances	Maint / AR
U-I CINW	T AIR LOCK		SX BASH		T	and an other states and an an other states and the states of the states	WS PP DSCH CHK VLVS
IL4 PC	ACTIN	00	CW1008/	1718			HOLL DOCH CHIK ALAS
U-1 KG	ACTIVITY						RIVER LVL RCOR
	1 5 1 3 4 4 S		038192		1		OB & OC CW M/U PPs
	1967 C. St 1		U-1 840	0			Ovc064y dmpr
TURNOVER	ITEMS	T.	ORMAL		1	00140	
1. HVAC		No. of Concession, name of Concession, Name of Street, or other	YES A	A DE VA CHILLER	RUNN	COL MENTS	TO START FROM MER
2. 345 KV Sys	toms, Relay House	CONTRACTOR DECEMBER ADDRESS TO ADDRE	ALC IDO	MMO CHECKS CHAR	10 MIL 40	Mark & Common Marks and an and and	
3. Air System		the second s	NO "	BAC COVERS NE	NOVE	RY & HRE ON TW BEPT R2 PREBS (2000) BOTTLE LEO WATCHING 1E MPT FOR LEAKS / COMMITR) DIEBEL BAC CONNECTED TO U-1 - OUTBIDE	OUBLE
4. Fire Protec	tion	the rest of the local division of the local	YES BUS	S-TIE BKR S-7 .BU	8 7 Des	C - DID NOT CLOBE WITH MOTOR (AR WRITTEN	
and the second s		the second s	NO CHE	EMISTRY WANTE 1		IPM OW B/D	
the state of the second st	TANK MENDER AND DESCRIPTION OF TAXABLE PARTY.				\$000 0		
5. Blowdown 6. Redistion R		A REAL PROPERTY OF A DESCRIPTION OF A DE	ES		8000 0		
6. Redistion R 7. MCB Instrum	nentation	Y	Concession of the local division of the loca		3000 0		
6. Redistion R 7. MCB Instrum 8. MCB Contro	nentation liers	Y	ES /ES			HN BOW 1908 OOB - KUJ TO BASIN FROM DECIM	
6. Radiation R 7. MCB Instrur 8. MCB Contro 9. Tank Capac	nentation liers	Y Y P	ES NO STR			HN 60W1666 OOS - K/:) TO BASIN FROM DEEPW	ELL OR OVERFLOW ONLY - PARTS DUE IN
6. Radiation R 7. MCB Instrur 8. MCB Contro 9. Tank Capac 0. Chemistry	nentation Ilers ity	Y Y f Y	YES NO NO			NN BOW1808 OOB - KAJ TO BASIN FROM DEEPW	ELL OR OVERFLOW ONLY - PARTS DUE IN
6. Radiation R 7. MCB Instrum 8. MCB Contro 9. Tank Capac 0. Chemistry 1. Radiation Pr	nentation Ilers ity rotection	Y Y P Y	YES YES NO STR YO UT T	RIN OF CW MAU TO I VEMBER		HN 60W1608 OOG - K73 TO BASIN FROM DEEPW	ELL OR OVERFLOW ONLY - PARTE DUE IN
6. Rediation R 7. MCB Instrur 8. MCB Contro 9. Tank Capac 0. Chemistry 1. Rediation Pr 2. Alarms - MC	nentation Illers ity rotection B Annun	Y Y Y Y Y	YES YES YO ES	RI OF OW MUI TO I VEMBER RCB ACTIVITY	SX BAI		
6. Radiation R 7. MCB Instrum 8. MCB Contro 9. Tank Capac 0. Chemistry 1. Radiation Pr 2. Alarms - MC 3. Alarms - FP	nentation Illers ity rotection B Annun / Other	Y Y Y Y Y	YES NO STROY ES NO LI I ES ES	RI OF OW MUI TO I VEMBER RCB ACTIVITY	SX BAI		
6. Radiation R 7. MCB Instrum 8. MCB Contro 9. Tank Capac 0. Chemistry 1. Radiation Pr 2. Alarms - MC 3. Alarms - FP 4. SYS - Safegu	nentation Illers ity otection B Annun / Other jards	Y Y Y Y Y Y	YES NO ES VO ES ES ES ES	RI OF OW MUI TO I VEMBER RCB ACTIVITY	SX BAI	IS IS AN E	
6. Radiation R 7. MCB Instrur 8. MCB Contro 9. Tank Capac 0. Chemistry 1. Radiation Pr 2. Alarms - MC 3. Alarms - FP 4. SYS - Safegu 5. SYS - Primar	nentation Illers ity rotection B Annun / Other wards Y	Y Y Y Y Y Y Y	YES NO ES NO ES ES ES ES ES	RI OF OW MUI TO I VEMBER RCB ACTIVITY	SX BAI		
6. Radiation R 7. MCB Instrur 8. MCB Contro 9. Tank Capac 0. Chemistry 1. Radiation Pr 2. Alarms - MC 3. Alarms - FP 4. SYS - Safegu 5. SYS - Primar 5. SYS - Balanc	nentation Illers ity rotection B Annun / Other wards Y		YES NO ES NO ES ES ES ES ES	RIN OF GW BYU TO I PROB ACTIVITY	H	IS IS AN E	KERCISE
6. Rediation R 7. MCB Instrum 8. MCB Contro 9. Tank Capac 0. Chemistry 1. Rediation Pr 2. Alarms - MC 3. Alarms - FP 4. SYS - Safegu 5. SYS - Primar 5. SYS - Balanco 7. MDCT	nentation Illers ity rotection B Annun / Other iards Y e of Plant	Y Y Y Y Y Y Y Y Y	YES NO ES NO ES ES ES ES ES ES	RIN OF GW BYU TO I PROB ACTIVITY	H		KERCISE
6. Radiation R 7. MCB Instrum 8. MCB Contro 9. Tank Capac 0. Chemistry 1. Radiation Pr 2. Alarms - MC 3. Alarms - MC 3. Alarms - FP 4. SYS - Safegu 5. SYS - Primar 5. SYS - Primar 5. SYS - Balance 7. MDCT 5. NDCT, Flume	nentation Illers ity rotection B Annun / Other iards Y e of Plant	Y Y Y Y Y Y Y Y Y Y	YES NO STR YO ES ES ES ES ES ES ES ES ES ES ES	REN OF OW BYLL TO A MERS ACTIVITY T	H	IS IS AN E	KERCISE
6. Radiation R 7. MCB Instrum 8. MCB Contro 9. Tank Capac 0. Chemistry 1. Radiation Pr 2. Alarms - MC 3. Alarms - MC 3. Alarms - FP 4. SYS - Safegu 5. SYS - Primar 5. SYS - Balanco 7. MDCT 1. NDCT, Fluma	nentation Illers ity rotection B Annun / Other iards Y e of Plant	Y Y Y Y Y Y Y Y Y Y	YES NO ES NO ES ES ES ES ES ES ES ES ES ES	RIN OF OW BAU TO I MEMBER ROB ACTIVITY ROB ACTIVITY T NEER DRAWN LINE & RED DOB	нира. ТН	IS IS AN E)	KERCISE
6. Radiation R 7. MCB Instrur 8. MCB Contro 9. Tank Capac 0. Chemistry 1. Radiation Pr 2. Alarms - MC 3. Alarms - FP 4. SYS - Safegu 5. SYS - Primar 5. SYS - Primar 5. SYS - Balanco 7. MDCT 1. NDCT, Flume	nentation Illers ity rotection B Annun / Other iards Y e of Plant	Y Y Y Y Y Y Y Y Y Y	TES NO ES NO ES ES ES ES ES ES ES ES ES ES ES ES ES	RU OF OW BUU TO I PERBER ROB ACTIVITY T BEER DRAIN LINE S RED OOS B PP UPPER BEAR	их вли 'Н	THIS IS AN EXTENSION TO VERIFY CON	KERCISE
6. Radiation R 7. MCB Instrur 8. MCB Contro 9. Tank Capac 0. Chemistry 1. Radiation Pr 2. Alarms - MC 3. Alarms - FP 4. SYS - Safegu 5. SYS - Primar 5. SYS - Palanc 7. MDCT 1. NDCT, Fluma 1.	nentation Illers ity rotection B Annun / Other iards Y e of Plant	Y Y Y Y Y Y Y Y Y Y	YES NO ES VO ES ES ES ES ES ES ES ES ES ES ES ES ES	REN OF OW BAU TO I PERSON ROB ACTIVITY T REER DRAIN LINE S RED 000 B PP UPPER BRARD V MU PP STATOR 1	илер вал	THIS IS AN EX THIS TOWER MOD TENT MODEL TO VERIFY COM THE HOT - BA WE PP STATOR RUNS HOT (LINET) HIGH WHEN RUHWING - AR WRITTEN	KERCISE
6. Radiation R 7. MCB Instrur 8. MCB Contro 9. Tank Capac 0. Chemistry 1. Radiation Pr 2. Alarms - MC 3. Alarms - FP 4. SYS - Safagu 5. SYS - Primar 5. SYS - Primar 5. SYS - Balanc 7. MDCT 1. NDCT, Flume 1.	nentation Illers ity rotection B Annun / Other iards Y e of Plant	Y Y Y Y Y Y Y Y Y Y	YES NO ES VO ES ES ES ES ES ES ES ES ES ES ES ES ES	REN OF OW BAU TO I PERSON ROB ACTIVITY T REER DRAIN LINE S RED 000 B PP UPPER BRARD V MU PP STATOR 1	илер вал	THIS IS AN EXTENSION TO VERIFY CON	KERCISE
6. Radiation R 7. MCB Instrur 8. MCB Contro 9. Tank Capac 0. Chemistry 1. Radiation Pr 2. Alarms - MC 3. Alarms - MC 3. Alarms - FP 4. SYS - Safegu 5. SYS - Primar 5. SYS - Primar 5. SYS - Balanco 7. MDCT 1. NDCT, Flums 1.	nentation Illers ity rotection B Annun / Other iards Y e of Plant	Y Y Y Y Y Y Y Y Y Y	YES NO ES VO ES ES ES ES ES ES ES ES ES ES ES ES ES	REN OF OW BAU TO I PERSON ROB ACTIVITY T REER DRAIN LINE S RED 000 B PP UPPER BRARD V MU PP STATOR 1	илер вал	THIS IS AN EX THIS TOWER MOD TENT MODEL TO VERIFY COM THE HOT - BA WE PP STATOR RUNS HOT (LINET) HIGH WHEN RUHWING - AR WRITTEN	KERCISE
6. Radiation R 7. MCB Instrur 8. MCB Contro 9. Tank Capac 0. Chemistry 1. Radiation Pr 2. Alarms - MC 3. Alarms - FP 4. SYS - Safegu 5. SYS - Primar	nentation Illers ity rotection B Annun / Other iards Y e of Plant	Y Y Y Y Y Y Y Y Y Y	YES NO BTR YO LI I ES ES ES ES ES ES ES ES ES ES ES ES ES	RN OF GW BYU TO I PERBER RCB ACTIVITY BEER DRAIN LINE S RED OOS B PP UPPER BEAR W MU PP STATOR 1 ITRUCTION RUNO	ах вла 'Н ниррі, темр п гелир г	THE TOWER MOD TENT MODEL TO VERIFY CON THE TOWER MOD TENT MODEL TO VERIFY CON THE HOT - BA WE PP STATER RUNG HOT (LINIT) HEM WHEN RUNNING - AR WRITTEN HD - HAB STANDBY DIEBEL PP	KERCISE
6. Radiation R 7. MCB Instrur 8. MCB Contro 9. Tank Capac 0. Chemistry 1. Radiation Pr 2. Alarms - MC 3. Alarms - MC 3. Alarms - FP 4. SYS - Safegu 5. SYS - Primar 5. SYS - Primar 5. SYS - Balanco 7. MDCT 1. NDCT, Flums 1.	nentation Illers ity rotection B Annun / Other iards Y e of Plant	Y Y Y Y Y Y Y Y Y Y Y Y	YES NO BTR YO LI I ES ES ES ES ES ES ES ES ES ES ES ES ES	REN OF OW BAU TO I PERSON ROB ACTIVITY T REER DRAIN LINE S RED 000 B PP UPPER BRARD V MU PP STATOR 1		THIS IS AN EX THIS TOWER MOD TEET MODEL TO VERIFY COM NEE HOY - GA WE PP STATOR RUNE HOT (LIMIT) MOH WHEN RUHWING - AR WRITTEN ND - HAR STANDBY DIEBEL PP	KERCISE WATHERLITY WITH OUR CHEMISTRY 8 190 - BED AMARE)
6. Radiation R 7. MCB Instrur 8. MCB Contro 9. Tank Capac 0. Chemistry 1. Radiation Pr 2. Alarms - MC 3. Alarms - FP 4. SYS - Safegu 5. SYS - Primar 5. SYS - Primar 5. SYS - Balanc 7. MDCT 8. NDCT, Flume 9.	nentation Illers ity rotection B Annun / Other vards Y e of Plant	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	VO ES VO ES ES ES ES ES Constru- Constru- Constru- Constru- Constru- Constru-	RN OF CW MU TO I PENBER RCB ACTIVITY T BER DRAIN LINE S BER DRAIN S		THE TOWER MOD TENT MODEL TO VERIFY CON THE TOWER MOD TENT MODEL TO VERIFY CON THE HOT - BA WE PP STATER RUNG HOT (LINIT) HEM WHEN RUNNING - AR WRITTEN HD - HAB STANDBY DIEBEL PP	KERCISE

File Location: 1.02.0164

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BAP 335-176 (FACEMBLE) Revision 5

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Unit 1 Nuclear Station Operator Turnover

PLANT		DE:ONE	%PWR:38.4	MW:420	ADMINISTRATIVE	
STATUS	GR	2:D @:214atapo	Ca:547ppm	Xe:STEADY STATE	1.Temporary procedures	1,
10045					2.Temporary Alterations	1
LCOAF	•	OOS/RTS	Surveillance	Maint / AR	3.Caution Cards	X
		1AF017A (OPEN) 1800460 818 LEA		1800450 STM LEAK	4.Unit Logbook	X
NMT AIR LOCKS		5.Unit Routine	Tx			
RCS ACTIVE	IA	GEN STBLTY			6.Aux Elec Equip Rm General Inspection	X
					7.Daily Orders	X
					8.SE Notes	X
			1.		9.Control Board Waikdown	Tx
			10.Abnormal Valve Line-ups	Tx		
					11.1st Shift Annun Check Completed	X
					12.*AMS Panel Check Completed	Îx

IN PROGRESS	PENDING
IC CD/CB PP IN STANDBY, CAN'T BAY CD BUCT STNR DUE TO BROKEN BAY VALVE RAMPED TO 38% FOR CNMT ENTRY TO REPAIR 1CV222 AILED FUEL MONITOR ALARM- @ 0630 SAMPLE RESULTS= 2.1 MICROCI/GM	NEW DELTA -I TARGETS RCS LEAKRATE SURV RCFC MONTHLY SURV

TURNOVER ITEMS	NORMA	COMMENTS
1.No Major Procedures in Progress	YES	SOMULT 19
2.NSO Shiftly, and Daily Surveillance	YES	
3.SSPS Channels / Bistables	YES	
4.ALARMS - SER / Annunciators	NO	MB & PW PENE. COOLING ALARM, TEMP ALT PENDING
5.ALARMS - Process / RM - 11	YES	
*6.SER / Alarm Typer / Trend Typer	YES	THIS IS AN EXERCISE
7.Alarms - FP / Other	YES	THIS IS AN EXERCISE
8.Tank Capacity	YES	
9.Chemistry	NO	U-1 RWET ON FC CLEANUP
10.Radiation Precautions	YES	N-15 MONITOR ON 1C & 1D BIG'S, RCS NI ACTIVITY
11.Nuclear Instrumentation	YES	
12.MCB Instrumentation	NO	TURE VIB RECORDER NOT PRINTING, AR
13.MCB Controllers	YES	
14.Electrical Distribution - AC	NO	TW MET HIGH N2 USE (~1005/W), LARGE N2 BANK CONNECTED (8 X 8005/ BOTTLEB) - 15 MEY LEAKING N2 ALBO - BO'S MONITORING EVERY 4 HRB
5.Electrical Distribution - DC	YES	BOWITORING EVERY & HRB
16.SYS - Safeguarda	NO	MINIBRZE RUN TIME ON 1A BI IP, USE 18 BI PP PER 0.0 18 CY PP SMALL OIL LEAK ON GEAR CHANGER, AR - 1APO17/
7.SYS - Primary	NO	OOD OPEN (PER OBR 16-058) H2 TO VCT IS BIANUALLY ISOL SEE C.C 1A CV PP MAN RECIRC ISOL VLV THROTTLED DUE TO 1CV121 HUNTING
8.SYS - Balance of Plant	NO	18 HD PP STATOR TEMP NORK WHEN RUN, LIKIT IS 180C - 10 HD PP BANG TEMPS HI WHEN RUN
9.		1A PW PP BEARING TEMPS ELEVATED WIEN RUN
20.		18 & 10 COICE PP STATOR TEMPS HI WHEN RUN - PIN HOLE LEAK ON 10 CB PP RELIEF
1.	+	THE REAL PHENOLE LEAK ON 10 CB PP RELIEF
2.		IC PW PP HP BUPPLY VLV (1988/0708) COS DUE TO BED IN CONSTRUCT OF
3.		IC PW PP HP SUPPLY VLV (19890798) OOS DUE TO BED'S CONCERN OF OVERSPEED WHILE ON THE HP GOVERNOR
4.		NOTIFY RADWASTE OPERATOR PRIOR TO RAMPING DUE TO MOD ON BAMPLE RETURNS (IT CHANGES SO FLOW)

TIME DATE SHIFT OFF GOING ON COMING

File Location: 1.02.0164 835-176 1.0

PASSABLE Revision 5

Unit 2 Nuclear Station Operator Turnover

PLANT	MODE:ONE	%PWR:95	MW:1140		~ .		
STATUS	GRP:D @:207 Mape	THE OWNER WAS ADDRESS OF THE OWNER OWNE	THE REAL PROPERTY AND ADDRESS OF THE OWNER ADDRESS	ADMINISTRATIVE			
	Terrer En	Cs:951ppm	Xe:STEADY STATE	1.Temporary procedures	T		
LCOAF	00000000		and of particular and a subscription of the su	2.Temporary Alterations			
		Surveillance	Maint / AR	3.Caution Cards	1		
BD002C		GORF, BEY.				4.Unit Logbook	+
2A BAG PORT	28X136 OPEN	21.1-4-0.008	21.1-PC008	5.Unit Routine			
an one Putt	COMP. NV.		1.24.14	6.Aux Elec Equip Rm General Inspection			
	SBIDOJBY			7.Daily Orders			
				8.SE Notes			
				9.Control Board Walkdown			
		The States	10.Abnormal Valve Line-ups	-			
				11.1st Shift Annun Check Completed	N		
		1		12.*AMS Panel Check Completed	X		

IN PROGRESS	PENDING
2MS018A - PLEASE LEAVE C/S IN CLOSE FOR I.M.'s	T ENDING
GRID IS GREEN	
MONITOR EXCITER FIELD VOLTAGE - SEE DAILY ORDER RECORDER HOOKED UP TO GEN MVAR	
	김 씨는 아이는 것은 것은 것을 가면 가격했다.
	입니는 그는 것 모양 것이 없는 것이 있는 것이 없다.

TURNOVER ITEMS	NORMA	COMMENTS
1.No Major Procedures in Progress	YES	
2.NSO Shiftly, and Daily Surveillance	YES	
3.SSPS Channels / Bistables	YES	1. 전 1 1 2 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1
4.ALARMS - SER / Annunciators	NO	COMPUTER INVERTER OCS
5.ALARMS - Process / RM - 11	YES	
*6.SER / Alarm Typer / Trend Typer	NO	TREND TYPER FAULTS
7.Alarms - FP / Other	YES	
8.Tank Capacity	YES	
9. Chemistry	YES	THIS IS AN EXERCISE
10.Rediation Precautions	YES	IN IS AN EXERCISE
11.Nuclear Instrumentation	YES	
12.MCB Instrumentation	NO	CHERT FLOOR WATER LVL (ELI-PCODE) - AR / 'B' TRN H2 BOH/TOR 'READY' LIGHT FLICKERING - AR
13.MCB Controllers	and the second se	DEHC LAMP TEET CHANGES DISPLATE IN WIHOOWS DO. REF. & REF. DEMAND) - AR
14.Electrical Distribution - AC	YES	A REF DRIGAND) - AR
15.Electrical Distribution - DC	YES	
16.SYS - Sefeguerde	NO	25X140 (RETURN HEADER CROBBTIE) GOB OPEN - DUE TO UNDERSIZED VALVE STEM
17.SYS - Primary		WYWOOA CLOBED DUE TO PACKING LEAV THE COLL TO UNDERSIZED VALVE STEM
18.SYS - Balance of Plant	NO	29Y9000A CLOBED DUE TO PACKING LEAK (SEE C.C.) / 2RES180B CLOBED (OS ONLY) TO PREVENT PRANNING VACUUR! ON UZ RCDT
19.	and the second	28 PW PP TURNING GEAR ONLY KNOLOGE MANNE
20.	+	28 FW PP TURNING GEAR ONLY ENGAGES MANUALLY (AR) / 2C PW PP ON CENTRIFUGE / 2C PW PP NP STOP VLY OPEN UB - (AR) 29W036 OPEN - PER SPP
21.	+	
22.	+	2NSOIGA DRIFTS FROM 100 TO 80% OPEN - AR
3.	in the second se	
4.		NS THROTTLED TO BD CHDBR (-80% OPEN) / H2 COOLER BYPASS CLOSED. GC & EXCITER COOLER STPASSES
	1 11	LOWER T.O. COOLER MAALL WE LEAK - AR / T.O. CLR MAALL AND BHO BYPASS VLVS OPEN DUE TO HIWS TEMPS / WE TO LOWER MAIN T.O. COOLER MOL TO INCR WE NOR PRESS AND IMPROVE COOLING - ADNORMAL VLV UU

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Station	Dre	sden	Ruad	Citie	s La	Salle	21	on	By	ron	Bra	idwood	TSyste	Status
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BAP 335-1T10 Revision 1

File Location: 1.02.0165 Equipment Operator Turnover - Unit One U-1 Mode Sever Man MW Dutput Plant Administrative Status 38 440 Temporary Procedures Temporary Alterations Surveillances DOS/RTS RWP's Daily Orders SE Notes Switching Orders Switching Maint/AR Duty Keys Turned Over Log Package BOP 199-EO U1 Contractor and Fending In Progress Turnovar Itams Normal Yes No Comments Electrical Distribution-AC 1 Electrical Distribution-DC Batteries on Equalize Ground Test Devices -Aux Electric Rooms THIS IS AN EXERCISE Switchgear Rooms Sec. MEER Rooms Rediation Precautions i. Diesel Generators 6 5 Bleed i feed 12/sh. At IA LDTU-6 GSReg Field (maybe) CP Regen pending (Bed Separated) Main Generator & Auxiliaries Main Turbine & Auxiliaries -Condensate Polishers Vibration Make-up Demineralizers 0A-DU-ZEST (050) Acid Line Des to fix 0B-> 5+6V elber prohole Leaks Time Data Shift Off Going On Coming Sent üller 4/1/4-Cruo K-D na

(Final)

(1073AA/WPF/022494)

-1-

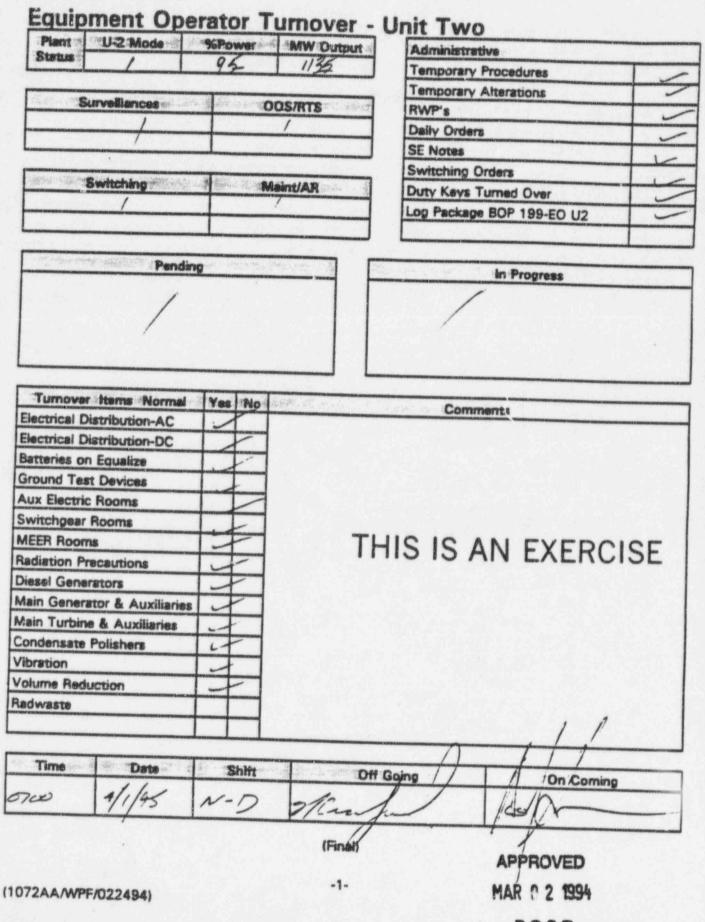
MAR 0 2 1994

APPROVED

B.O.S.R.

BAP 335-1T11 Revision 1

File Location: 1.02.0165



B.O.S.R.

BAP 335-1TB Revision 2

A second and a second	pplicable System Status
ALL HOTWELL PPS ALL SD DEMINS OB WIX MA AB MON TH PP Th	HIS IS AN EXERCISE
Jobs Performed	Notes / Review Explanations
Jobs in Progress Jobs Pending Jobs Pending Unover Review Items Logs (Round Review) Valving Changes Abnormal Conditions	OB WF TK ? OA WE TK - 005 OE GAS DELAY TK - 005 LAUNDRY HOT WATER TK - 005 OWM 955 CLOSED OA AB MOULT TK RECIRC VIA CD DEMW MONITOR SD SAMPLE TK 45% C 0545 COVER GAS 150L TO HUTS
SE Notes (Center Desk) Aux Boiler Status Procedures Returned Equipment Returned All Keys Returned All Keys Returned Time 5 -1-95 0700	Off - Going On - Coming

(1074AA/WPF/022494)

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BAP 335-1T8 Revision 2

A+C W			Applicable System Status
	S STRNI	2.	
ALLEN		0	
104C C	w m/v P	Second	0.1. 0
			- Debris in River
RSM	A.R Con	PIDRY	BL.
AQU	6VARO		
J	obs Performe	den Station (Sec. 7)	
- OAFP TO	A JOCKEY P	mp oos	Notes / Review Explanations
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	OB River		
~~1/~	• • • • • •		- OA FP + OA JOCKEY PP
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	ver Review th	ame	
. Logs (Round . Valving Cha			- OA RSH AIR COMP DOS
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. OOS Jobs	A COME AND AND AND AN AND A SAME AND		- Lots of Leaves & Debriz in
. Radiation/ C	hemical Haza	irds	
SE Notes (C			TURNER
Aux Boiler S	SR. MICHINESE PARTY INCOME.		THIS IS AN EXERCISE
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All Keys Ret			
hift Off-On	Des		
AND A CONTRACTOR OF A CONTRACT	Date	Time	Off - Going On - Coming
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PACKAGE :	BOP 199 - E	A (05)	Om thigh parties
			(Final) APPROVED
			-1- MAR 0 2 1994
4AA/WPF/022	(494)		

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(1074AA/WPF/022494)

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B.O.S.R.

THIS IS AN EXERCISE Revision 2

and the second second second second second	t Turnover Applicable System Status
OB UC HUAC	2A, 2B WG Flice
2B FW go : Cant	2B, C, b C b/co por
2B FW go : cant	and D - 100 Apr
2C FW RP : Funi=	ZABHD ROS
PW Hy - Recine	2B SH AD
1-2 IA Dryer	CA A: C
1TO PUNE	OA AS COND Col The
A, 28 STAE AS EL	
++	
Jobs Performed	
RA CO/CO po cos	Notes / Review Explanations
	Dos- RA COICE PO Turb Bry Deluge
and a second	Turb Bry Deluge
Jobs in Progress	OA SB CLiller
	2I STEL Dung
	opatos P
	GA Vault Chilles + HTT
Jobs Pending	ac wh Filter
	As Res Lond Hor
	- Level Alarms intep:
Turnover Review Items	
Logs (Round Review)	355 4 4.3
Valving Changes	BOA H
Abnormal Conditions	- Hell U. a.
OOS Jobs	275 H: H:-2
Radiation/ Chemical Hazards	110 Hi, H:-2
SE Notes (Center Desk)	2FGDD
Aux Boiler Status	2ESO32A - FO
Procedures Returned	2E3067 - Crus 2ESOFI- F.O. 04040
Equipment Returned	aESOGI - F.O.DUN
Il Kevs Returned	10. 10%
t Off-On Date Time	
m Off-On Date Time	Off - Going On - Coming
-2 5-1-45 ploo	BIFI
PACKAGE : BOP 199 - EA (TB-2)	La hug Jakto
	(Final) APPROVED
	-1- MAR 0 2 1994
A/WPF/022494)	

B.O.S.R.

File Location: 1.02.0166

Equipment	Attendant	Tumover
A STREAM STREAM AND ST	CONTRACTOR OF THE OWNER	Charles of the second

UN, UU UN Sup 3 6xh Fans	RWST Po Auto
OA, OBYAWE Pps	OB PW M/U PP
OB VF Fan	
U-1 SFP PP. D	1B Sx Pp
SFP Stimmer Pp.	
2B VP Chiller	
2 B CV Pp	
2B cc Pr	
2A St Reader	Notes / Review Explanations
2 B AF Battery Surv.	2B VP Chilles Fluctuating Amps SF/Tech Shaff Aware
	ST / Tech Shuff Aware J
Jobs in Progress	2A VP Chille- 005
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	Sluicegate Nº Press. Set at 50
Jobs Pending	Placerd on Wall Rounds to be
1-1 LCSR 602-005	Adjusted, Adjust Reg. as Required
	, , , , , , , , , , , , , , , , , , , ,
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Abnormal Conditions	AN EXFORM
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Radiation/ Chemical Hazards	
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Equipment Returned	
All Keys Returned	
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MAR 0 2 1994

(1074AA/WPF/022494)

File Location: 1.02.0166

Equipment Attendant Tumover

Applicable System Status 14-1 SH HE C 5% IB & IC FW RP w/ L.D. purif M.T.C. pusit IA SJAE IALIB 65 cond Exch OB wing 18 SHAP U-1 SAC - man H-O SAC -ANE U-O IA dryes

Sec Samp Sys IA, IB tIC CD/CB p IBIIC WE Filters 18 IL HD pos OA Recycle X-for pp

Notes / Review Explanations / N-16 monitor - Monitor Potable water +K. Hi Press alarm comes in spuriously

Jobs Pending

Jobs Performed

Jobs in Progress

Tumover Review Items 1. Logs (Round Review) ~ 2. Valving Changes 4 3. Abnormal Conditions 4. OOS Jobs 5. Redistion/ Chemical Ha 6. SE Notes (Center Desk) 7. Aux Boiler Status 8. Procedures Returned 9. Equipment Returned 10. All Keys Returned

LOG PACKAGE : BOP 199 - EA (TB-1)

ges nditions emical Hazards nter Desk) Itus Itumed turned turned	777777777	THIS IS A	AN EXERCISE
Date	Time	Off - Going	On - Corning
5-1-95 0	700	Hickent	Q-Kilg

(1074AA/WPF/022494)

Shift Off-On

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IBCV	PP			
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		and the second se	No	otes / Review Explanations
and the second	-	No. of Concession, Street, Stre	-Monitor	OB VC Chir O.I Lul
Joh	a in Progress			
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. Logs (Round		0	- AR-	Coffee Can Watch
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. Radiation/ C	hemical Here		THIC	IC ANI ENTE
. SE Notes (Ca		us 4	1 1113	IS AN EXERCISE
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Procedures F	In our however to a constant of young on the local system in the	L		
Equipment R	WITH DESIGNATION AND DESIGNATION OF STATE OF STREET, STORE	4		
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hitt Off-On	Date	Time		
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	5-1-15	0700 2	P. Ede	Station
PACKAGE :	BOP 199 - E	A (AB-J.)		90000
			(Final)	APPROVED
444A/WPF/02	AGAL		-1-	MAR 0 2 1994

CONTROL MESSAGE CM-3

TIME: 0700 - 0730 (T-030 - T+000)

ISSUED TO: MAINTENANCE FOREMEN and STAFF (MM, EM, IM)

PREREQUISITE: SXERCISE HAS BEEN INITIATED

MESSAGE

The following are INITIAL CONDITIONS for the Byron 1995 Exercise :

- 1. A major ice storm moved through the Ogle County, Illinois, area yesterday and last night, leaving most area roads ice-covered and hazardous. The storm affected an area from central Illinois north of Interstate 80 to north of the Wisconsin border and east to Lake Michigan.
- The weather forecast for today (WGN radio 0630 forecast) is for freezing rain to end this morning with overcast skies clearing after noon, colder than normal temperatures with a high of 38°F, and winds from the east to northeast at 10 mph.

CONTROL MESSAGE CM-4

TIME: 0700 - 0730 (T-030 - T+000)

ISSUED TO: RADIATION PROTECTION FOREMAN (OSC SUPERVISOR)

PREREQUISITE: EXERCISE HAS BEEN INITIATED ; ISSUE THIS MESSAGE ONLY IF THE OSC SUPERVISOR/DIRECTOR ARE STAGED INDEPENDENTLY FROM THE CONTROL ROOM CREW

MESSAGE

The following are INITIAL CONDITIONS for the Byron 1995 Exercise :

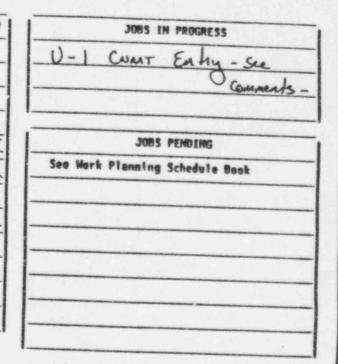
- 1. A major ice storm moved through the Ogle County, Illinois, area yesterday and last night, leaving most area roads ice-covered and hazardous. The storm affected an area from central Illinois north of Interstate 80 to north of the Wisconsin border and east to Lake Michigan.
- The weather forecast for today (WGN radio 0630 forecast) is for freezing rain to end this morning with overcast skies clearing after noon, colder than normal temperatures with a high of 38°F, and winds from the east to northeast at 10

BAP 710-111 Revision 2

	a share a state in the same of the same		
PLANT	U-I Mode:	1	1 % Power: 34
STATUS	U-2 Mode:	1	X Power: 95

Heniter	Sample Due	RP & OPs Review 1x/8 Hrs
None	0400/1200/2000	Y / N TIME:
	0400/1200/2000	Y/N TIME:
	0400/1200/2000	Y/N TIME:
	0400/1200/2000	Y/N TIME:
	0400/1200/2000	Y / N TIME:
V,		
omments:		

TURNOVER ITEMS COMPLETE	YES	NO
"Review "R" Keys Loa	X	-
"Review CNMT Entry Log	X	-
Sicron Source Check	X	-
WST-18 Source Check	X	-
Daily A/S & PRM's	-10	X
AHS-3 Source Checks		X
Weeklys		X
PH-7s Friskers SOP		X
IPHs / HPHs	X	
RORs / PCRs		X
Review Duty RPLS Log	X	-
Hemo / Dally Orders	-10-	X



Phone #	Pager #
Duty HPSS on	call D. G. Goldsmith
	D. J. Goldsmith
Phone #	I Barren # 1
Phone #	Pager #
Radiation	Pager #

CONFINED	SPACE	PENDING
NONE		

ADMEN ITEMS COMPLETE	YES	NO
BCS Updates (H W F)	X	-
Review RHPs	X	
Review Timesheets	X	-
Off Duty Notices	1	X
		-

° Station Commitment 6-87-0149 & 6-87-0150

THIS IS AN EXERCISE

APPROVED JUL 07 1992 B.O.S.R

(0755A/VS/0. 2)

CONTROL MESSAGE CM-5

TIME: 0700 - 0730 (T-030 - T+000)

ISSUED TO: TSC DIRECTORS, NRC & IDNS RESIDENT INSPECTORS (IF PARTICIPATING)

PREREQUISITE: EXERCISE HAS BEEN INITIATED

MESSAGE

The following are INITIAL CONDITIONS for the Byron 1995 Exercise :

- 1. A major ice storm moved through the Ogle County, Illinois, area yesterday and last night, leaving most area roads ice-covered and hazardous. The storm affected an area from central Illinois north of Interstate 80 to north of the Wisconsin border and east to Lake Michigan. As a result of the storm, schools have been closed in Ogle and Winnebago Counties.
- The weather forecast for today (WGN radio 0630 forecast) is for freezing rain to end this morning with overcast skies clearing after noon, colder than normal temperatures with a high of 38°F, and winds from the east to northeast at 10 mph.
- 3. Attached is the ComEd System Status Report for November 15, 1995.

Station	Dre	sden	Ruad	Citie	s Las	Salle	21	on	By	ron	Bra	idwood	System	Jeacu:
Unit	2	3	1	2	1	2	1	2	1	2	1	2	Status	
Power (by %) 10 80 60 40	o HH	97%			52%	188%	78%	95% 	38%	95% 	8%	93% 111	Capabi	AMBER
20 0 MWe	B34	887	833		588	1130	758	1831	450	1140		1093	Peak Li	1032 1 023 25t.
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8:01AM	ComEd Nuclear Operati	ons Daily	Plant Statu	15 NOV 15 1995
Dresden	THIS IS AN EXE	RCISE	Updated:	Nov 15 1995 7:04AN
	Unit : 2 Status : Online		Unit: 3	Status: Online
005:	TIPs ; 2B SDC ; 2/3 SBGT	005:	TIPS ; 3A Ins pressor ; ECC	trument Air Com- S Jockey Pump
LCO's:	Service Water Rad Monitor ; 2/3A SBGT (3 of 7)	LCO's:	None.	<u>y =p</u>
Other:	Increase in Drywell air activity - investigating	Other:	None.	
EGC:	OffEGC	EGC:	Off EGC	
NRC:			011100	
Comment:	Duty Officer : Shift Manager ; GS	EP TSC tak	letops today	
Quad-Cities 7:08AM			Upda	ted: Nov 15 1995
	Unit : 1 Status : Online		Unit: 2	Status: Online
005:	1B2 & 1B3 FW Htr ; normal LCV in manual ; 1601-33C Vac- uum Breaker indication	005:	None	
LCO's:	None	LCO's:	None	
Other:	Weekend Load Drop - Nov 18 Turbine Weekly	Other:	None	
EGC:	Inop.	EGC:	Inop.	
NRC:	ENC call made for fire in MCC 28 interest. Fire was extinguished by	-1 cubicle v	esterday due to	potential public
Comment:	Duty Officer - A. Misak			

ComEd Nuclear Operations Daily Plant Status NOV 15 1995

8:01AM

LaSalle

THIS IS AN EXERCISE

Updated: Nov 15 1995 7:24AM

where a regularized to a figure of the statements	Unit: 1 Status: Online		Unit : 2 Status: Online
005:	1B VT Exh Fan ; TIP Ball Valves; 1A CW Pump; 2nd stage reheat; 1A TDRFP; B Amertap unavail.	005:	2A RT Pump; D HD Pump; 2C CW Pump
LCO's:	None	LCO's:	None
Other:	1B RR pp ongoing, LOS-DG-M1 LOS-SC-Q1 SAC concerns ; unit in coastdown to L1R07 on 1/2- 7/96	Other:	2B TDRFP uncoupled test; PORC today on S/U issues
EGC:	Inop.	EGC:	Inop.
NRC:			mop.
Comment:	Limited U1 load following capability	ities	
Zion		and the loss of the second	
21011			Updated: Nov 15 1995 7:06AN
24011	Unit : 1 Status : Online		
00S:	Unit : 1 Status : Online 1A BA Transfer Pump; 1C CW Pump; 1A C/CB Pp	005:	
	1A BA Transfer Pump; 1C CW	OOS: LCO's:	Unit : 2 Status: Online
00S:	1A BA Transfer Pump; 1C CW Pump; 1A C/CB Pp	and a line of the subscript of the subscript	Unit : 2 Status: Online 2C SW Pump; 2C CW Pump
OOS: LCO's: Other:	1A BA Transfer Pump; 1C CW Pump; 1A C/CB Pp None PT-3C Thermal Overload Issue	LCO's: Other:	Unit: 2 Status: Online 2C SW Pump; 2C CW Pump None PT-3C Thermal Overload Issue, PT-11 - 2B D/G ; PT-5-2 Rx Prot
OOS: LCO's:	1A BA Transfer Pump; 1C CW Pump; 1A C/CB Pp None PT-3C Thermal Overload Issue	LCO's: Other: EGC:	Unit : 2 Status: Online 2C SW Pump; 2C CW Pump None PT-3C Thermal Overload Issue, PT-11 - 2B D/G ; PT-5-2 Rx Prot Off EGC

Page 2

8:01 AM	ComEd Nuclear Operation	ns Daily I	Plant Status	NOV 15 1995
Byron	THIS IS AN EXE	RCISE	Updated:	Nov 15 1995 7:49AN
	Unit : 1 Status : Online		Unit: 2	Status: Online
OOS:	1AF017A, 1A CV Bed, 0B Sx Basin CW M/U	OOS:	Construction of the second of the state of the second states of the second	ump; Startup FW
LCO's:	Cnmt Air Lock, RCS Activity, Secondary Sources	LCO's:	2A SG PORV	
Other:	At 38% power for cnmt entry, 2 gpm leak, Failed Fuel Alarm	Other:	2B D/G mon Letdown red	thly surv. uced to 75 gpm
EGC:	Off EGC	EGC:	Off EGC	or a
omment:	Preliminary U1 chemisty sample	at 2.1 µCi/	g	
Braidwood			Updated:	Nov 15 1995 7:47AM
	Unit : 1 Status : Refuel		Unit: 2	Status: Online
OOS:	U0 SAC/0B VC; 0C CW makeup	OOS:	2A CD/CB, 2	NUMBER OF COMPANY OF A ANY OTHER OF STATISTICS OF A ANY O
LCO's:	OB VC, 1B H2 monitor	LCO's:	0B VC, 2FW4	3A
Other:	OB VC, 1B D/G run; 1B Cnmt chiller; VI chiller, TSC chiller, U0 SAC & air Dryer	Other:	2A CD/CB pu slaves, 2C HI	imp, PR N44, D pump alignment
Outage	A1R05 RTS: 11/22/- 95			
C.P.	Prep for start-up testing			
Cause:	Scheduled			
EGC:	Off	EGC:	Off EGC	
NRC:		a destruction and a street of a second street st		allanden andere and
_omment:	1B HD pump work to start 11/29 injured man sent to hospital @ 0	; 2C CD/C	B work after 2 intaminated)	A CD/CB is RTS;

CONTROL MESSAGE CM-6

TIME: 0700 - 0730 (T-030 - T+000)

ISSUED TO: SECURITY SHIFT SUPERVISOR (TSC SECURITY DIRECTOR)

PREREQUISITE: EXERCISE HAS BEEN INITIATED

MESSAGE

The following are INITIAL CONDITIONS for the Byron 1995 Exercise :

- 1. A major ice storm moved through the Ogle County, Illinois, area yesterday and last night, leaving most area roads ice-covered and hazardous. The storm affected an area from central Illinois north of Interstate 80 to north of the Wisconsin border and east to Lake Michigan.
- The weather forecast for today (WGN radio 0630 forecast) is for freezing rain to end this morning with overcast skies clearing after noon, colder than normal temperatures with a high of 38°F, and winds from the east to northeast at 10
- 3. Attached is the Security Shift Turnover for November 15, 1995.

CONTROL MESSAGE CM-7

TIME: 0730 (T+000)

ISSUED TO: CEOF STAFF

PREREQUISITE: EXERCISE HAS BEEN INITIATED

MESSAGE

The following are INITIAL CONDITIONS for the Byron 1995 Exercise :

- 1. A major ice storm moved through Wisconsin and the northern Illinois area yesterday and last night, leaving many area roads slippery and roads in some areas are ice-covered and extremely hazardous. The storm affected an area from central Illinois north of Interstate 80 to north of the Wisconsin border and east to Lake Michigan. Schools have been closed in several central Illinois and southern Wisconsin Counties, including Ogle, Winnebago and Boone (in Illinois), and Walworth and Kenosha (in Wisconsin).
- 2. The weather forecast for today (WGN radio 0630 forecast) is for freezing rain to end this morning with overcast skies clearing after noon, colder than normal temperatures with a high of 38°F, and winds from the east to northeast at 10 mph.
- 3. Attached is the ComEd System Status Report (EIS) for November 15, 1995.

Station	Dre	sden	quad	Cities	Las	salle:	21	on	By	ron	Brat	dwood	TSystem	Status
Unit	2	3	1	2	1	2	1	2	1	2	1	2	Statu	5
Power (by %) 10 80 60 40 20 0	1.5 10 10 10 10 10 10 10 10 10 10 10 10 10				52%		78%	95%	38%	95%	8%	83%	(apab	16321
Mwe	834	887	833	833	588	1139	750	1831	450	1140	0	1893	Peak L	.oad Est.
Outage 500 Online 400								· · · ·					Yester	day Peak 14388
Outage 500			CODOBOUD Software Colorado Col											14388 erves System
Outage 500 Online 400 300 200 100		Onthe	Ontine	Online	Online	Online	Online	ang pag ang pag				Provension	Res ComEd 2669	14388
Outage 500 Online 400 300 200 100 0		Onthe X	noord talevoord of and the second of a state of the second of the a state of the second of the a state of the second of the a state of the second of the second of the second of the second of the second of the sec	Online	Online X	Online	Online	ang pag ang pag		Online		Online X	Res ComEd 2669	14388 erves System
Outage 500 Online 400 300 200 100 0 Status	Online	AND DE COMMENT	Contine	Commences and the	TO DESCRIPTION OF TAXABLE PARTY	Annuar nearest	Lenannaurus	Oniina		descent and	And the owner of the owner	Online	Res ComEd 2669	14388 erves System 1604 wer
Dutage 500 200 200 100 0 5tatus	Online X	AND DE COMMENT	Contine	Commences and the	TO DESCRIPTION OF TAXABLE PARTY	Annuar nearest	Lenannaurus	Oniina	X	X	X X	Ontine X X	Res ComEd 2669 Porch	14388 erves System 1604 wer Sales
Dutage 500 200 300 200 100 0 Status 205 .C0	Online X	AND DE COMMENT	Ontine X	X	X	Annuar nearest	Lenannaurus	Oniina	X	X	X	Ontine X	Res ComEd 2669 PC Purch 91 Nuc	14388 erves System 1604 wer Sales 1865
Dutage 500 200 300 200 100 0 5tatus 005 .C0 Issues	Online X X	X	Ontine X X	X X X	X	X	X	Announce Announce Announce X	X X	X X	X X X	Ontime X X X	Res ComEd 2669 Porch 91	14388 erves System 1604 wer Sales 1865

		1 10, 1990		
8:01AM	ComEd Nuclear Operati	ions Dail	y Plant Status	NOV 15 1995
Dresden	THIS IS AN EXE	RCISE	Updated:	Nov 15 1995 7:04AN
	Unit : 2 Status : Online		Unit: 3	Status: Online
005:	TIPs ; 2B SDC ; 2/3 SBGT	005:	TIPS ; 3A Instr pressor ; ECCS	ument Air Com-
LCO's:	Service Water Rad Monitor ; 2/3A SBGT (3 of 7)	LCO's:	None.	
Other:	Increase in Drywell air activity - investigating	Other:	None.	
EGC:	Off EGC	EGC:	Off EGC	
NRC:		And the set of the set		
Comment:	Duty Officer : Shift Manager ; GS	SEP TSC ta	bletops today	
Quad-Cities 7:08AM			Update	ed: Nov 15 1995
	Unit : 1 Status : Online		Unit: 2	Status: Online
OOS:	1B2 & 1B3 FW Htr ; normal LCV in manual ; 1601-33C Vac- uum Breaker indication	005:	None	
LCO's:	None	LCO's:	None	
Other:	Weekend Load Drop - Nov 18 Turbine Weekly	Other:	None	
EGC:	Inop.	EGC:	Inop.	
NRC:	ENC call made for fire in MCC 28 interest. Fire was extinguished by	-1 cubicle y	restanday due to a	otential public
Comment:	Duty Officer - A. Misak		- werBerge	

8:01AM

ComEd Nuclear Operations Daily Plant Status NOV 15 1995

THIS IS AN EXERCISE

LaSalle

Updated: Nov 15 1995 7:24AM

	Unit: 1 Status: Online		Unit : 2 Status: Online
00S:	1B VT Exh Fan ; TIP Ball Valves; 1A CW Pump; 2nd stage reheat; 1A TDRFF; B Amertap unavail.	005:	2A RT Pump; D HD Pump; 2C CW Pump
LCO's:	None	LCO's:	None
Other:	1B RR pp ongoing, LOS-DG-M1 LOS-SC-Q1 SAC concerns ; unit in coastdown to L1R07 on 1/2- 7/96	Other:	2B TDRFP uncoupled test; PORC today on S/U issues
EGC:	Inop.	EGC:	Inop.
NRC:	an e shaaladayaa ah. Adalaha dagaal dalamada dalamada dalama dala sharada dala sharada da sharada da sharada d	<u></u>	mop.
Comment:	Limited U1 load following capabil		
CALLER AND A DESCRIPTION OF A DESCRIPTIO	capabil	ities	
Zion	capabil	11165	Updated: Nov 15 1995 7:06AN
Zion	Unit: 1 Status: Online	10.65	
Zion OOS:		ities OOS:	
	Unit : 1 Status : Online 1A BA Transfer Pump: 1C CW		Unit : 2 Status: Online 2C SW Pump; 2C CW Pump
	Unit : 1 Status : Online 1A BA Transfer Pump; 1C CW Pump; 1A C/CB Pp	OOS:	Unit : 2 Status: Online
OOS: LCO's: Other:	Unit : 1 Status : Online 1A BA Transfer Pump; 1C CW Pump; 1A C/CB Pp None PT-3C Thermal Overload Issue	OOS: LCO's: Other:	Unit : 2 Status: Online 2C SW Pump; 2C CW Pump None PT-3C Thermal Overload Issue, PT-11 - 2B D/G ; PT-5-2 Rx Prot
OOS: LCO's:	Unit : 1 Status : Online 1A BA Transfer Pump; 1C CW Pump; 1A C/CB Pp None PT-3C Thermal Overload Issue	OOS: LCO's: Other: EGC:	Unit : 2 Status: Online 2C SW Pump; 2C CW Pump None PT-3C Thermal Overload Issue, PT-11 - 2B D/G ; PT-5-2 Rx Prot Off EGC

8:01AM	ComEd Nuclear Operatio	ns Daily	Plant Status	NOV 15 1995
Byron	THIS IS AN EXER	RCISE	Updated:	Nov 15 1995 7:49AM
	Unit : 1 Status : Online		Unit: 2	Status: Online
OOS:	1AF017A, 1A CV Bed, 0B Sx Basin CW M/U	OOS:	and the second	ump; Startup FW
LCO's:	Cnmt Air Lock, RCS Activity, Secondary Sources	LCO's:	2A SG PORV	
Other:	At 38% power for cnmt entry, 2 gpm leak, Failed Fuel Alarm	Other:	2B D/G mon Letdown red	thly surv. uced to 75 gpm
EGC:	Off EGC	EGC:	Off EGC	THE TO IS BOTT
omment: Braidwood	Preliminary U1 chemisty sample	at 2.1 µCi	/g Updated:	Nov 15 1995 7:47AM
	Unit : 1 Status : Refuel		Unit : 2	
OOS:	U0 SAC/OB VC; OC CW makeup	OOS:	2A CD/CB, 20	Status: Online
LCO's:	OB VC, 1B H2 monitor	LCO's:	0B VC, 2FW43	A REAL PROPERTY OF THE PARTY OF
Other:	0B VC, 1B D/G run; 1B Cnmt chiller; VI chiller, TSC chiller, U0 SAC & air Dryer	Other:	2A CD/CB pu	COMPANY ANY ADDRESS OF TAXABLE AND ADDRESS ADDRES
Outage	A1R05 RTS: 11/22/- 95			
C.P.	Prep for start-up testing			
Cause:	Scheduled			
EGC:	Off	EGC:	Off EGC	
NRC:		And a second	UN LUC	
Comment:	1B HD pump work to start 11/29 injured man sent to hospital @ 0	; 2C CD/0 707 (not co	B work after 2.	A CD/CB is RTS ;

CONTROL MESSAGE CM-8

TIME: 0730 (T+000)

ISSUED TO: EOF and JPIC STAFF

PREREQUISITE: EXERCISE HAS BEEN INITIATED

MESSAGE

The following are INITIAL CONDITIONS for the Byron 1995 Exercise :

- 1. A major ice storm moved through Wisconsin and the northern Illinois area yesterday and last night, leaving many area roads slippery and roads in some areas are ice-covered and extremely hazardous. The storm affected an area from central Illinois north of Interstate 80 to north of the Wisconsin border and east to Lake Michigan.
- The weather forecast for today (WGN radio 0630 forecast) is for freezing rain to end this morning with overcast skies clearing after noon, colder than normal temperatures with a high of 38°F, and winds from the east to northeast at 10 mph.
- 3. Assume that you reached the Dixon EOF/JPIC after starting from your normal working location, and taking the most direct route. Road conditions in transit are wet with frequently slippery areas and traffic is moving much slower than normal; while road travel requires caution, all roads are open and passable. While in transit, you hear the following information on WMAQ News Radio (AM 670) :

"There has been an incident at the Byron Nuclear Power plant located on the Rock River near Oregon, Illinois. This morning around 8 o'clock a generator failed and the associated Unit 1 nuclear reactor did not shut down automatically as it was designed to do. Operators were able to manually shut down the reactor."

4. Attached is the ComEd System Status Report (EIS) for November 15, 1995.

Station	Dre	sden	puad	Citie	s La	Salle	21	on	By	ron	Bra	dwood	TSystem	Status
Unit	2	3	1	2	1	2	1	2	1	2	1	2	Statu	\$
Power (by %) 10 80 60 40 20 0	HH				52%			•5%	38%	25% 	0% 	87% 	Capab	AMBER 11 ity 16321
Mwie	834	887	833	833	588	1130	768	1831	450	1140	0	1093		13743
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300 200 100 0													ComEd	
300 200 100		Online	Contine	Online	online	Ontine	Online	and Bears Dogument		Online				
300 200 100 0		Online X	Online X	Online	Online X	Ontine	Online	and Bears Dogument	Online X	Ontine			ComEd	erves System 1604 wer
300 200 100 0	Online	Descention of the	Sectorements.	Anna anna anna anna			Lunnun	Online	-	X	X	Online X	ComEd	erves System 1604
300 200 100 0 tatus 03	Online	Descention of the	Sectorements.	Anna anna anna anna			Lunnun	Online	X	hearen and the second	X X	Ontine X X	ComEd 2669 Parch	erves System 1604 wer Sales
300 200 100 0 tatus 03 C0	Online	Descention of the	X	X	X		Lunnun	Online	X	X X	X X X	Ontine X X X	ComEd 2669 Parch 91 Nucl	erves System 1604 wer Sales 1065
300 200 100 0 tatus 03 C0 ssues	Online X X	X	X X	X X X	X X	X	X	Ontine X X	X X	X	X X	Ontine X X	ComEd 2669 Parch 91	erves System 1604 wer Sales 1085

Byron 1995 GSEP Exercise ; November 15, 1995

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a:01AM	ComEd Nuclear Operat	ions Dai	ly Plant Stat	US NOV 15 1995
Dresden	THIS IS AN EXER	CISE	Updated:	Nov 15 1995 7:04AM
Million and a state of the second	Unit : 2 Status : Online		Unit: 3	Status: Online
008:	TIPs ; 2B SDC ; 2/3 SBGT	OOS:	TIPS ; 3A Ins pressor ; ECC	strument Air Com- CS Jockey Pump
LCO's:	Service Water Rad Monitor ; 2/3A SBGT (3 of 7)	LCO's:	None.	
Other:	Increase in Drywell air activity - investigating	Other:	None.	
EGC:	OffEGC	EGC:	Off EGC	
JRC:		Lide.	OILEGC	Normality presented and support to the starting of
Comment:	Duty Officer : Shift Manager ; GS	SEP TSC ta	abletops today	
Quad-Cities 7:08AM			Upda	ted: Nov 15 1995
	Unit: 1 Status: Online		Unit: 2	Status: Online
OOS:	1B2 & 1B3 FW Htr ; normal LCV in manual ; 1601-33C Vac- uum Breaker indication	OOS:	None	
LCO's:	None	LCO's:	None	
Other:	Weekend Load Drop - Nov 18 Turbine Weekly	Other:	None	
EGC:	Inop.	EGC:	Inop.	
NRC:	ENC call made for fire in MCC 28 interest. Fire was extinguished by	-1 cubicle	vesterday due to	potential public
Comment:	Duty Officer - A. Misak		- nullanc	

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8:01AM	ComEd Nuclear Operat	ions Dai	ly Plant Status NOV 15 1995
ASSIS SAMESSAUCE MARKET (SUS SAMES	THIS IS AN EX	ERCIS	SF
LaSalle			Updated: Nov 15 1995 7:24A
	Unit: 1 Status: Online		Unit : 2 Status: Online
00S:	1B VT Exh Fan ; TIP Ball Valves; 1A CW Pump; 2nd stage reheat; 1A TDRFP; B Amertap unavail.	005:	2A RT Pump; D HD Pump; 2C CW Pump
LCO's:	None	LCO's:	None
Other:	1B RR pp ongoing, LOS-DG-M1 LOS-SC-Q1 SAC concerns ; unit in coastdown to L1R07 on 1/2- 7/96	Other:	2B TDRFP uncoupled test; PORC today on S/U issues
EGC:	Inop.	EGC:	Inop.
NRC:			F-
Comment:	Limited U1 load following capabil	ities	
Zion			Updated: Nov 15 1995 7:06AM
	Unit : 1 Status : Online		Unit : 2 Status: Online
OOS:	1A BA Transfer Pump; 1C CW Pump; 1A C/CB Pp	005:	2C SW Pump; 2C CW Pump
LCO's:	None	LCO's:	None
Other:	PT-3C Thermal Overload Issue	Other:	PT-3C Thermal Overload Issue, PT-11 - 2B D/G ; PT-5-2 Rx Prot
EGC:	Off by BPO	EGC:	Off EGC
NRC: Comment:	NRC Radiation Protection Inspecti	the second se	

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8:01 AM	ComEd Nuclear Operatio	ns Daily	Plant Status	NOV 15 1995
Byron	THIS IS AN EXERC	CISE	Updated:	Nov 15 1995 7:49AN
-	Unit : 1 Status : Online		Unit: 2	Status: Online
OOS:	1AF017A, 1A CV Bed, 0B Sx Basin CW M/U	OOS:	2C CD/CB P pump;	ump; Startup FW
LCO's:	Cnmt Air Lock, RCS Activity, Secondary Sources	LCO's:	2A SG PORV	
Other:	At 38% power for cnmt entry, 2 gpm leak, Failed Fuel Alarm	Other:	2B D/G mon Letdown red	thly surv. uced to 75 gpm
EGC:	Off EGC	EGC:	Off EGC	acca to 12 Shm
Braidwood	Preliminary U1 chemisty sample	at 2.1 µC	i/g Updated:	Nov 15 1995 7:47AM
	Unit : 1 Status : Refuel		Unit: 2	Status: Online
OOS:	UO SAC/OB VC; OC CW makeup	OOS:	2A CD/CB, 20	The start of the
LCO's:	OB VC, 1B H2 monitor	LCO's:	OB VC, 2FW4:	The second s
Other:	OB VC, 1B D/G run; 1B Cnmt chiller; VI chiller, TSC chiller, U0 SAC & air Dryer	Other:	2A CD/CB pu	
Outage	A1R05 RTS: 11/22/- 95			
C.P.	Prep for start-up testing			
Cause:	Scheduled			
EGC:	Off	EGC:	Off EGC	
NRC:		ten and t	SHEDC	
Comment:	1B HD pump work to start 11/29 injured man sent to hospital @ 0	; 2C CD/0	CB work after 2	A CD/CB is RTS;

CONTROL MESSAGE CM-9

TIME: 0730 (T+000)

ISSUED TO: COMMUNICATIONS SERVICES

PREREQUISITE: EXERCISE HAS BEEN INITIATED

MESSAGE

The following are INITIAL CONDITIONS for the Byron 1995 Exercise :

- 1. A major ice storm moved through Wisconsin and the northern Illinois area yesterday and last night, leaving many area roads slippery and roads in some areas are ice-covered and extremely hazardous. The storm affected an area from central Illinois north of Interstate 80 to north of the Wisconsin border and east to Lake Michigan. As a result of the storm, schools in several central Illinois and Wisconsin counties have been closed, including those in Ogle, Winnebago and Boone (in Illinois) and Walworth and Kenosha (in Wisconsin). Areas in northern Indiana and western Michigan have not been seriously affected by this storm.
- Scattered power outages have been reported affecting about twelve thousand customers, with the most severe interruptions being in the areas of Freeport, DeKalb/Sycamore, Marengo, and Elgin (all in Illinios).
- 3. The weather forecast for today (WGN radio 0630 forecast) is for freezing rain to end this morning with overcast skies clearing after noon, colder than normal temperatures with a high of 38°F, and winds from the east to northeast at 10 mph.

Station	Dre	sden	Ruad	Citie	s La	Salle	Zi	on	By	ron	Bra	1 dwood	TSyster	Status
Unit	2	3	1	2	1	2	1	2	1	2	1	2	Statu	s
Power (by %) 10 80 60 40 20 0	1 1 1 1 1 1 1 1 1				52%		70%	95%	38%	- 85% - 84 - 84 - 84 - 84 - 84 - 84 - 84 - 84	8% 	83%	Capab	AMBER 11 1ty 16321
Mwe	834	887	833	833	588	1138	760	1031	450	1140		1893	Peak	oad Est.
Days 600	and the second second		NATION CONCERNING AND		CANADA DA	aforman statement	and the second se	CONTRACTOR OF CONTRACTOR	Contractor and Contractor	Contractory of the local division of the loc	ethoremax as a survey			and a high second second second
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Outage 500 Online 400 300 200			GORIGUAG Verdblacet Unstation TUSTERIJI					CONTRACTOR OF					Res	
Outage 500 Online 400 300 200 100 0		Online	Onine	Online	andramm Annatorius	Online	Online	autoona 	PLACE SHARE	Online		A REAL PROPERTY.	Res ComEd 2669	14302 erves System 1604
Outage 500 300 200 100 0		Online X	Online X	Online X	andramm Annatorius	Online	Online	autoona 	PLACE SHARE	Online X			Res ComEd 2669	14308 erves System
Outage 500 Online 400 300 200 100 0 Status DOS	Online	Contract and and the owners of	Contraction of the local division of the loc	Committee and the second second second	Contine	and the subscription of th	Constanting the second	Online	Online	X	X	Online X	Res ComEd 2669 Pc Purch	14308 erves System 1604 wer Sales
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Outage 500 200 200 200 100 0 5 5 5 5 5 5 5 5 5 5 5 5 5	Online X	Contract and and the owners of	X	Committee and the second second second	Contine	and the subscription of th	Constanting the second	Online	Online X	X	X	Online X	Res ComEd 2669 Porch 91 Nuci	14308 erves System 1604 wer Sales 1865
Outage 500 Online 400 300 200 100	Online X X	X	X X	X X X	Online X X	X	X	Online X X	Ontine X X	X X	X X X	Ontime X X X	Res ComEd 2669 Pc Purch 91	14302 erves System 1604 wer Sales 1865

CONTROL MESSAGE CM-10

TIME: 0730 (T+000)

ISSUED TO: ALL PARTICPANTS

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PREREQUISITE: EXERCISE HAS BEEN INITIATED

MESSAGE

The 1995 Byron Exercise has been initiated. The exercise Shift Engineer has taken control of the Simulator Control Room. All participants should be prepared to respond as necessary to exercise events.

EPEXER/byron/cm-msg/10

CONTROL MESSAGE CM-11

TIME: 0800 (T+030)

ISSUED TO: UNIT 1 DUTY CHEMIST

PREREQUISITES: PERMISSION OF THE LEAD OSC CONTROLLER

MESSAGE

ISSUE the following information VERBALLY :

"THIS IS AN EXERCISE : This is _____, Counting Room Chemist. I have the results of the confirmatory RCS sample which was collected at about 0700. The sample shows that there is 3 µCi/g (micro-Curies per gram) lodine-131 Dose Equivalent."

CONTROLLER NOTE : Provide a copy of the sample report attached to message Chem-3.

EPEXER/byron/cm-msg/11

CONTROL MESSAGE CM-12

TIME: 0810 (T+040)

ISSUED TO: OUTSIDE EQUIPMENT OPERATOR SIMULATING ENTRY TO THE RIVER SCREEN HOUSE

PREREQUISITES: PERMISISON OF THE LEAD ONSITE CONTROLLER

MESSAGE

1. PROVIDE the following information to the designated Operator :

"THIS IS AN EXERCISE : This is _____, at the River Screen House. I'm down here on my morning rounds. There is a lot of debris in the river, mostly tree branches and leaves. The screens are running continuously. Current differential pressure (DP) is 15 inches of water."

2. DIRECT THE OPERATOR to call this information to the Control Room via his/her Operations Radio.

CONTROLLER NOTE : 1.

In order to deliver this message, a participating Outside Operator should be designated from the operations staging area. This operator should be removed from the staging area to a nearby location at about 0800 (T+030). After they deliver the scripted message, allow the designated Operator to return to the staging area for other duties as directed by the scenario.

EPEXER/byron/cm-msg/12

CONTROL MESSAGE CM-13

TIME: 0835 (T+065)

ISSUED TO: ACTING STATION DIRECTOR / CONTROL ROOM SHIFT ENGI-NEER

PREREQUISITES: HAS NOT RECOGNIZED THE ALERT CLASSIFICATION ON EAL MA3 ENTRY CONDITION ; HAS NOT DECLARED THE ALERT CLASSIFICATION

MESSAGE

ISSUE the following information VERBALLY :

"THIS IS AN EXERCISE : You are directed to declare an ALERT emergency classification based on EAL MS3 (Auto Trip Not Successful). The cause of this ALERT is the failure of the automatic reactor SCRAM following the Main Turbine trip which occurred at 0805 (T+035). Complete and issue the attached NARS form."

1949	UTILITY MESSAGE NO	NUCLE	AR ACCIDENT	OF ILLINOIS REPORTING SYSTEM FORM	STATE MESSAGE NO.
	STATUS 2. (A) ACTUAL SE EXERCISE [C] DRILL [D] TERMINATION	STATION [A] DRESDEN [B] LASALLE [C] QUAD CITIES [D] ZION	F BYRON [F] BRAIDWOOD [G] CLINTON	3. <u>ON-SITE ACCIDENT CLASS</u> [A] UNUSUAL EVENT [A] CALERT [C] SITE AREA EMERGENCY	D GENERAL EMERG
1	TIME: 0835	ACCIDEN	IT TERMINATED	6. RELEASE TO ENVIRONMENT	6. TYPE OF RELEASE

8. WIND SPEED (COMPLETE

(8) MILES/HR .:

(B) PREPARE FOR POSSIBLE ACTION INVOLVING THE PUBLIC

[C] INITIATE PUBLIC NOTIFICATION PROCEDURES

ONE OF THE FOLLOWING:) A METERS/SEC : 1.7

DATE:

(UTILITY FORM)

(B) POTENTIAL

C OCCURRING

D] TERMINATED

. TYPE OF RELEASE NOT APPLICABLE (B) RADIOACTIVE GAS (C) RADIOACTIVE LIQUID

DI GENERAL EMERGENCY

THIS IS AN EXERCISE

SHELTER (D)	EVACUATE [H]	0 - 2	UTILITY ONLY MILE RADIUS
(E)	ញ	0	MILE RADIUS
(F)	(J)	2 - 5	MILES FOR SECTORS
(G)	[K]		MILES FOR SECTORS
(L) SHELTER (M) EVACUATE	SUB-AREA SUB-AREA	-	(STATE USE ONLY

COMMEND POTASSIUM IODIDE (KI) IN ACCORDANCE WITH PROCEDURES (STATE USE ONLY) [O] CONFINE MILK-PRODUCING ANIMALS ON STORED FEED AND PROTECTED WA

P COMMENCE RETURN OF PUBLIC (STATE USE ONLY)	TTC	MI	LE RADIUS	STATE USE	ONLY)
[Q] OTHER					

TURBINE TRID WITHOUT REACTOR TRID , MANUAL REACTOR TRID WAS SUCCESSFUL ADDITIONAL INFORMATION: MESSAGE TRANSMITTED BY: 11. 12. MESSAGE TRANSMITTED: 本語なな

CURRENT TIME:

CURRENT DATE:

13. MESSAGE RECEIVED BY:

(NAME) ORGANIZATION

(OLTSIDE PHONE NUMBER)

「「「「「「「「」」」」

243

(NAME)

(ORGANIZATION)

DATE: 11/15/95

FROM _ 80 (DEGREES)

DOWNWIND SECTOR: N

RECOMMENDED ACTIONS

EALS: MS

7. WIND DIRECTION:

NONE

GR 43 250 UTILITY USE ONLY OUTSIDE PHONE NUMBERS INITIAL FINAL APPROVED BY: ROLL ROLL CALL CALL (INITIALS) BPO 708-691-4744 D IEMA 217-782-7860 (TIME) 0 (BPO ONLY) IDNS NDO NOTIFIED: 217-785-0800 0 WDEG 800-943-0003 (ZION ONLY) (NAME) D IOWA EMD 515-281-3231 (QUAD CITIES ONLY) 0 TIME/DATE)

86-2626 8-84

CONTROL MESSAGE CM-14

TIME :

0845 - 1400 (T+075 - T+390)

ISSUED TO : A-MODEL PRINTERS

...

PREREQUISITES : A-MODEL CONTROL HAS BEEN SHIFTED TO ALTERNATE FACILITY

MESSAGE

0.951115.084500

- *** INFORMATIONAL MESSAGE ***
- *** BYRON UNIT 1 ***
- *** DATE > 11/15/95 TIME> 08:45 *** ***
- A-MODEL MESSAGES AND REPORTS ARE BEING DIRECTED TO THE *** ***
- PRINTER IN THE
- . A-MODEL OUTPUT WILL *** NO LONGER BE PRINTED IN THE ***

CONTROL MESSAGE CM-15

TIME : 0955 - 1000 (T+145 - T+150)

ISSUED TO : CHEMISTRY DIRECTOR, TSC

PREREQUISITIES :

CONTAINMENT LEAK IS IN PROGRESS AND APPROACHING 150 GALLONS PER MINUTE LEAK RATE ; PERMISSION OF THE LEAD FACILITY CONTROLLER

MESSAGE

"THIS IS AN EXERCISE : The post-trip chemistry sample collected at about 0915 (T+105) has a total I-131 Dose Equivalent of 310 µCi/g."

CONTROL MESSAGE CM-16

TIME : 1000 - 1015 (T+150 - T+165)

ISSUED TO : TSC SECURITY DIRECTOR

PREREQUISITIES : SITE ASSEMBLY HAS BEEN INITIATED, SECURITY DIRECTOR REQUESTS SECURITY COMPUTER PRINTOUT OF BADGES ISSUED ON SITE

MESSAGE

"THIS IS AN EXERCISE : Attached is a Security Computer printout of those badges which have been issed today, sorted by department."

CONTROLLER NOTE :

This personnel sort represents the initial condition for the simulated assembly, prior to personnel using the GSEP Card Readers.

CONTROL MESSAGE CM-17

TIME: 1020 (T+170)

ISSUED TO: EXERCISE SECURITY SHIFT SUPERVISOR

PREREQUISITE: PERMISSION OF LEAD ONSITE CONTROLLER

MESSAGE

"THIS IS AN EXERCISE : This is ______, driving a mobile patrol. I am calling to let you know that I just had an accident. My car hit a patch of ice and slid into the Fuel Handling Building roll-up door. I am not hurt and there is only minor damage to my car. The roll-up door is cracked and has been knocked off its track on the north side. The door is about off about 10 inches to a height of about 8 feet."

CONTROL MESSAGE CM-18

TIME : 1030 - 1045 (T180 - 195)

ISSUED TO : TSC SECURITY DIRECTOR

PREREQUISITIES : SITE ASSEMBLY HAS BEEN INITIATED

MESSAGE

"THIS IS AN EXERCISE : Attached is a Security Computer printout of those badges which have been issued today AND which have not carded into a GSEP Card Reader since the initiation of the Station Assembly. This list is sorted by department."

CONTROLLER NOTE :

This personnel sort represents an intermediate condition during the simulated assembly, showing some persons who have not carded into the GSEP Card Reader. Issue this message approximately fifteen (15) minutes AFTER the station assembly is initiated.

CONTROL MESSAGE CM-19

TIME : 1030 (T+180)

ISSUED TO : ACTING STATION DIRECTOR or STATION DIRECTOR

PREREQUISITIES : ISSUE IN FACILITY HAVING COMMAND-AND CONTROL ; PERMISSION OF THE LEAD ONSITE CONTROLLER

MESSAGE

"THIS IS AN EXERCISE : You are directed to declare a SITE EMERGENCY condition based on EAL FS1 (Loss or Potential Loss of the RCS and Fuel Cladding Fission Product Barriers). This is based on a known RCS leak of greater than 150 gallons per minute [greater than the capacity of one Charging Pump] and a total I-131 Dose Equivalent in excess of 300 µCi/g.

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ORIGINAL

CONTROL MESSAGE CM-20

TIME : 1045 - 1100 (T+195 - T+210)

ISSUED TO : TSC SECURITY DIRECTOR

PREREQUISITIES : STATION ASSEMBLY HAS BEEN INITIATED

MESSAGE

"THIS IS AN EXERCISE : Attached is a Security Computer printout showing those persons whose badges where issued today AND who have not carded into a GSEP Card Reader since the initation of the station assembly. The list is sorted by department.

CONTROLLER NOTE :

This personnel sort represents the final condition of the assembly drill and shows that all personnel on site are accounted for. Controllers are to ensure that Security is aware that accountability has been established and that search and rescue efforts are NOT needed.

CONTROL MESSAGE CM-21

TIME : 1230 (T+300)

ISSUED TO : STATION DIRECTOR, MANAGER OF EMERGENCY OPERATIONS (CEOF), or MANAGER OF EMERGENCY OPERATIONS (EOF)

PREREQUISITIES : ISSUE IN FACILITY HAVING COMMAND-AND-CONTROL ; PERMISSION OF THE LEAD OFFSITE CONTROLLER

MESSAGE

"THIS IS AN EXERCISE : You are directed to declare a GENERAL EMERGENCY condition based on EAL FG1. This is based on loss of the third fission product barrier due to a breach of containment. Complete and issue the attached NARS form."

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ORIGINAL

CONTROL MESSAGE CM-22

TIME : 1400 (T+390)

ISSUED TO : CONTROL ROOM, TSC, OSC, ENVIRONS TEAMS, CEOF, EOF

PREREQUISITIES : PERMISSION OF LEAD ONSITE AND OFFSITE CONTROLLERS

MESSAGE

"THIS IS AN EXERCISE : The Byron Exercise is now terminated. A short verbal critique of exercise performance in this facility will follow shortly."

CONTROLLER NOTE :

Exercise activities may continue until 1500 (T+450) in the JPIC only, in order to complete demonstration of FEMA objectives for public information. Termination of the JPIC after 1400 hours will be at the discretion of the Lead JPIC Controller with the concurrance of the Lead Offsite Controller. Byron Nuclear Generating Station 1995 GSEP Exercise November 15, 1995

CONTROL ROOM MESSAGES

SIMULATOR CONTROLLER GUIDANCE

PLANT STATUS UPDATE SHEETS [10 MINUTE]

CONTROL ROOM PANEL ALARMS

CONTROL ROOM MESSAGES [RESPONSES TO OPERA-TOR /NSO ACTIONS]

AREA RADIATION MONITOR PANELS

WRGM RESULTS

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CONTROL ROOM INJECT MESSAGES

Byron Nuclear Generating Station 1995 GSEP Exercise November 15, 1995

CONTROLLER GUIDANCE : Control Room / Simulator

- 1. All procedures in force should be used by Participants.
- 2. Do not direct Participants to complete forms or documentation. All documents which are prepared shall be marked "FOR GSEP EXERCISE USE ONLY".
- Appropriate notifications to offsite agencies shall actually be made to the agency (when participating) or to those numbers provided (when simulated). Controllers shall not permit exercise notification to be made non-participating offsite agencies.
- 4. Simulator panels should be set up with appropriate initial conditions prior to participants entering the area. Appropriate Out of Service tags and other panel aids should be in place as part of the exercise preparations. Out of Service cards should be used only within the simulator.
- 5. Control Room participants are expected to react to information displayed on appropriate simulator panels. Information which duplicates information sources (chart recorders, ARM meter faces, computer print outs [A-Model], SPDS and computer displays, etc.) that are not available in the simulator may be posted at the applicable times, and in the appropriate locations, for participants to read. Controllers should verbally provide participants information for those Control Room panels which are not duplicated in the simulator and for the alternate Unit.
- If a simulator failure occurs, controllers should continue the exercise using pre-determined plant data from the Exercise Manual. Information should be given verbally to participants whenever possible.
- 7. Plant pages should generally be made only within the simulator, and exercise information should not be broadcast to the station. The sole exception to this guidance is the page announcement to staff the TSC and OSC, which must be made to the station. For those simulators without direct station page ability : Participants shall be directed to contact the actual Control Room as necessary to make the announcement to staff the TSC and OSC.
- 8. At appropriate times, the Simulator participants should sound the plant assembly siren only within the simulator. The sole exception to this guidance is when a Station Assembly Drill is conducted as part of an exercise. Participants shall be directed to contact the actual Control Room to activate the Station Assembly siren when an assembly is part of the exercise conditions.
- 9. The ability to use the exercise GSEP program to initiate ERDS when necessary is not available in the simulator(s). Participants should be directed to contact a facility Controller when ERDS is desired. Controllers shall then contact the Lead TSC Controller to initiate ERDS.
- 10. If evacuation of Control Room personnel becomes appropriate during the exercise, participants should be directed to formulate an appropriate evacuation plan. Unless directed otherwise by the Lead Facility Controller, an actual evacuation of the Control Room should not be performed.

BYRON 1995 GSEP EXERCISE NOVEMBER 15, 1995

IN PLANT EQUIPMENT AVAILABILITY

IN - PLANT EQUIPMENT AVAILABILITY

LEGEND

R Running RS Running Slow Speed

ENG Equipment Energized DE Equipment De-Energized

Running High Speed RH

Equipment Available AV

- OOS Equipment Out of Service
- DMG Equipment Damaged and Unavailable

CONTROL ROOM MESSAGE CR-1

TIME : 0730 (T+000)

ISSUED TO : UNIT 1 NSO

PREREQUISITE : EXERCISE HAS BEEN INITIATED

MESSAGE

The following Control Room Alarm(s) are present on the Control Room Panels :

 Unit 1, Panels : ALL
FW PUMP 1C - TRIP (16-L1)
HTR 14 LEVEL HI/LOW (17-B4)
GROSS FAILED FUEL : ALERT (RM-11 1PS206)

BYRON 1995 GSEP EXERCISE NOVEMBER 15, 1995

IN PLANT EQUIPMENT AVAILABILITY

TIME :

0730 (T+000)

INITIAL CONDITIONS : UNIT 1

Pump Type	A	В	C	D	Other
Reactor Coolant Pumps	R	R	R	R	and Concerning and an operation of the second
RCFC	RH	RH	RH	AV	
CV Pumps	R	AV			PDP - OOS
SI Pumps	AV	AV			
RH Pumps	AV	AV			
CS Pumps	AV	AV			
CC Pumps	R	oos			0 - AV
Aux Feed Pumps	AV	AV			

Reactor Systems	Status	Electrical Equipment	Status
Rx Trip Breakers	A - OPEN B - OPEN	SATS	142-1 ENG 142-2 ENG
Rod Positions	Shutdown : Full Out Control : 200 Steps	UATS	141-1 ENG 141-2 ENG
Primary PORVs	CLOSED	6.9 kV Busses	156 ENG 157 ENG 158 ENG 159 ENG
Secondary PORVs	CLOSED	4 kV Busses	141 ENG 142 ENG 143 ENG 144 ENG
Primary Safeties	CLOSED	125V AC Instrument	111 ENG 112 ENG 113 ENG 114 ENG
Secondary Safeties	CLOSED	120V DC Busses	111 ENG 112 ENG 113 ENG 114 ENG
Other Information : Unit 0 CC Pump is aligned to Bus 142		250V DC Busses	U1 ENG U2 ENG
			1A AV 1B AV

THIS IS AN EXERCISE

g:\epexer\byron\equip.wpf2

Time = 0730 (0)				PLANT STATUS-1
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
Rx POWER	30.33	PC	PRT LEVEL	74.71	PC
	-99.99 -99.99 0.00 2239.26	DEGF DEGF DEGF PC PSIG PSIG	PRT PRESSURE VCT LEVEL CHARGING FLOW LETDOWN FLOW RVLIS-HEAD RVLIS-PLENUM	-0.00 0.00 84.73 69.30 100.00 100.00	GPM
W.R. RCS TEMP	LOOPIA	LOOPIB	LCOPIC	LOOPID	UNITS
HOT LEG: COLD LEG: TAVE:	571.14 552.46 561.77	552.54		571.19 552.17 561.64	DEGF DEGF DEGF
SECONDARY	LOOPLA	LOOPIB	LOOPIC	LOOPID	UNITS
SG PRESS S/G NR LEVEL S/G WR LEVEL S/G STM FL S/G FEED FL GENERATOR OUTPUT CST LEVEL	980.40 66.00 60.73 0.00 992.50 303.17 89.20	66.00 60.75 990.52	66.00 60.76	981.03 66.00 60.67 1063.93 1047.64	PSIG PC PC KBH KBH INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917 SI FLW TRAIN A SI FLW TRAIN B RHR FLW TRAIN A RHR FLW TRAIN B CS FLOW TRAIN A CST FLOW TRAIN B RWST LEVEL	0.00 0.00 0.00 0.00 0.00 0.00 93.59	GPM GPM GPM GPM GPM GPM GPM PC	CNMT PRESS CNMT TEMP CNMT HYDROGEN RECIRC SUMP LVL CNMT FLW WTR LVL	0.10 108.36 0.00 19.72 0.00	PSIG DEGF PC INCHES INCHES

<<< *** THIS IS AN EXERCISE *** >>>

Area and Process Radiation Monitors Grid 1

TIME = 0730 (T+000)

AREA RADIATION MONITORS , GRID 1

RM-11 Code	Description		Value mR/h	Alarm Status
4AA122	U1 Main Steam Line	Rm R13	0.094	Normal
5AA122	U2 Main Steam Line	Rm R41	0.108	Normal
4AA123	U1 Main Steam Line	Rm R13	0.084	Normal
5AA123	U2 Main Steam Line	Rm R41	0.077	Normal
4AB222	U1 Main Steam Line	Rm R20	0.122	Normal
5AB222	U2 Main Steam Line	Rm R34	0.095	Normal
4AB223	U1 Main Steam Line	Rm R20	0.129	Normal
5AB223	U2 Main Steam Line	Rm R34	0.105	Normal
AC322	U1 Main Steam Line	Rm R20	0.131	Normal
5AC322	U2 Main Steam Line	Rm R34	0.085	
AC323	U1 Main Steam Line	Rm R20	0.209	Normal
5AC323	U2 Main Steam Line	Rm R34	0.093	Normal
AD422	U1 Main Steam Line	Rm R13	0.333	Normal
AD422	U2 Main Steam Line	Rm R41	0.333	Normal
AD423	U1 Main Steam Line	Rm R13		Normal
AD423	U2 Main Steam Line	Rm R41	0.105	Normal

PROCESS RADIATION MONITORS , GRID 1

RM-11 Code	Description	Value µCi/cc	Alarm Statu	
0PS101	Lig. Radwate Effluent	1.00E-08	Normal	
0PS105	TB Fire & Oil Sump	8.90E-08	Normal	
0PS106	RW Evap Conds. Return 0A	1.00E-08	Normal	
0PS107	RW Evap Conds. Return 0B	1.00E-08	Normal	
0PS108	RW Evap Conds. Return 0C	1.00E-08	Normal	
0PS109	CC Heat Exchg 0 Water Outlet	4.48E-07	Normai	
0PS110	Station Blowdown	9.91E-07	Normal	
0PS116	Blowdown Afterfilter 0A Outlet	2.57E-06	Normal	
0PS117	Blowdown Afterfilter 0B Outlet	7.80E-09	Normal	
DPS118	Blowdown Afterfilter 0C Outlet	7.81E-09	Normal	
PS119	Blowdown Afterfilter 0D Outlet	4.33E-07	Normal	
PS141	Condensate Polisher Hi/Low Sumps	1.00E-09		
PS102	U1 RCFC Sx Water Outlet, 1A / 1C	7.81E-09	Normal	
PS102	U1 RCFC Sx Water Outlet. 2A / 2C	8.45E-08	Normal	
PS103	U1 RCFC Sx Water Outlet. 1B / 1D		Normal	
PS103	U1 RCFC Sx Water Outlet, 2B / 2D	7.80E-09	Normal	
PS106	U1 Gross Failed Fuel, Low Energy	1.11E-08	Normal	
PS106	U2 Gross Failed Fuel, Low Energy	2.00E+00	Normal	
PS206	U1 Gross Failed Fuel, High Energy	2.09E+00	Normal	
PS206	U2 Gross Failed Fuel, High Energy	2.20E+00	Alarm	
PS107	U1 BTR Chiller Surge Tank Return	4.24E-02	Normal	
PS107	U2 BTR Chiller Surge Tank Return	1.00E-08	Normal	
PS108	U1 Steam Generator Blowdown	1.00E-08	Normal	
PS108	112 Steam Concretes Disudown	2.00E-06	Normal	
PS109	U2 Steam Generator Blowdown	1.06E-06	Normal	
PS109	U1 CC Heat Exch Water Outlet 1	1.34E-07	Normal	
PS127	U2 CC Heat Exch Water Outlet 2	2.43E-07	Normal	
PS127	U1 SJAE Gland Steam Exhaust, Gas	1.00E-06	Normal	
NOT 21	U2 SJAE Gland Steam Exhaust, Gas	1.06E-06	Normal	

Rad Monitors in units of mR/h. Process Monitors are in units of µCi/cc.

Process Radiation Monitors Grid 2

TIME =

0730 (T+000)

PROCESS RADIATION MONITORS , GRID 2

RM-11 Code	Description		Value	Alarm Status
0PA231	Ctl Rm Outside Air Intake		5E-14	Normal
0PB131	Ctl Rm Outside Air Intake		2.68E-06	Normal
0PC331	Ctl Rm Outside Air Intake		2.04E-14	Normal
0PA232	Ctl Rm Outside Air Intake	A - Gas	1.16E-12	Normal
0PB132	Ctl Rm Outside Air Intake	A - Part	2.76E-06	Normal
0PC332	Ctl Rm Outside Air Intake	A - lodine	3.67E-14	Normal
0PA233	Ctl Rm Outside Air Intake	B - Part	3.22E-15	Normal
0PB133	Ctl Rm Outside Air Intake	B - Gas	3.31E-06	Normal
0PC333	Ctl Rm Outside Air Intake		3.67E-14	Normal
0PA234	Ctl Rm Outside Air Intake		3.23E-15	Normal
0PB134	Ctl Rm Outside Air Intake	B - Gas	3.98E-06	Normal
0PC334	Ctl Rm Outside Air Intake	B - Iodine	3.67E-14	Normal
0PA235	CR Turb Bldg Air Intake	A - Part	1.21E-13	Normal
DPB135	CR Turb Bldg Air Intake	A - Gas	2.24E-06	Normal
DPC335	CR Turb Bldg Air Intake		6.24E-15	Normal
PA236	CR Turb Bldg Air Intake		3.23E-15	Normal
PB136	CR Turb Bldg Air Intake	A - Gas	1.94E-06	Normal
PC336	CR Turb Bldg Air Intake	A - lodine	3.67E-14	Normal
PA237	CR Turb Bldg Air Intake	B - Part	3.22E-15	Normal
PB137	CR Turb Bldg Air Intake	B - Gas	2.01E-06	Normal
PC337	CR Turb Bldg Air Intake	B - lodine	1.11E-14	Normal
PA238	CR Turb Bidg Air Intake	B - Part	3.99E-14	Normal
PB128	CR Turb Bldg Air Intake	B - Gas	1.98E-06	Normal
PC338	CR Turb Bldg Air Intake	B - lodine	3.67E-14	Normal
PA201	U1 Containmt Purge Effl	Particulate	1.01E-14	Normal
PB101	U1 Containmt Purge Effl	Gas	2.33E-06	Normal
PC301	U1 Containmt Purge Effi	lodine	3.67E-14	Normal
PA201	U2 Containmt Purge Effl	Particulate	3.25E-15	Normal
PB101	U2 Containmt Purge Effl	Gas	1.97E-06	Normal
PC301	U2 Containmt Purge Effl	lodine	3.61E-13	Normal
PA211	U1 Containment Atmos.	Particulate	3.23E-15	Normal
PA211	U2 Containment Atmos.	Particulate	5E-13	Normal
PB111	U1 Containment Atmos.	Low Gas	5.64E-06	Normal
PB111	U2 Containment Atmos.	Low Gas	4.08E-06	Normal
PC311	U1 Containment Atmos.	lodine	5E-12	Normal
PC311	U2 Containment Atmos.	lodine	2.66E-12	Normal
PD411	U1 Containment Atmos.	High Gas	0	
PD411	U2 Containment Atmos.	High Gas	0.00281	Normal
A213	U1 RHR/CS Cubicle 1A	Particulate	6.41E-13	Normal
A213	U2 RHR/CS Cubicle 2A	Particulate	4.68E-13	Normal

PAGE 1 OF 2

All values are in units of µCi/cc unless noted.

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Process Radiation Monitors Grid 2

TIME = 0730 (T+000)

PROCESS RADIATION MONITORS , GRID 2

RM-11 Code	Description		Value	Alarm Status
1PB113	U1 RHR/CS Cubicle 1A	Gas	8.37E-07	Normal
2PB113	U2 RHR/CS Cubicle 2A	Gas	1.56E-06	Normal
1PA214	U1 RHR/CS Cubicle 1A	Particulate	6.95E-13	Normal
2PA214	U2 RHR/CS Cubicle 2A	Particulate	5.5E-13	Normal
1PB114	U1 RHR/CS Cubicle 1A	Gas	1.95E-06	Normal
2PB114	U2 RHR/CS Cubicle 2A	Gas	1.65E-06	Normal
1PA215	U1 RHR Hx Cubicle 1A	Particulate	6.51E-13	Normal
2PA215	U2 RHR Hx Cubicle 2A	Particulate	1.01E-13	Normal
1PB115	U1 RHR Hx Cubicle 1A	Gas	1.6E-06	Normal
2PB115	U2 RHR Hx Cubicle 2A	Gas	2.12E-06	Normal
1PA216	U1 RHR Hx Cubicle 1B	Particulate	7.44E-13	Normal
2PA216	U2 RHR Hx Cubicle 2B	Particulate	3.56E-13	Normal
IPB116	U1 RHR Hx Cubicle 1B	Gas	2.17E-06	Normal
2PB116	U2 RHR Hx Cubicle 2B	Gas	1.6E-06	Normal
PA217	U1 Cent Chg Pump 1A	Particulate	7.48E-15	Normal
PA217	U2 Cent Chg Pump 2A	Particulate	3.23E-15	Normal
PB117	U1 Cent Chg Pump 1A	Gas	1.48E-06	Normal
PB117	U2 Cent Chg Pump 2A	Gas	3.36E-06	Normal
PA218	U1 Cent Chg Pump 1B	Particulate	1E-12	Normal
PA218	U2 Cent Chg Pump 2B	Particulate	1.5E-12	Normal
PB118	U1 Cent Chg Pump 1B	Gas	4.01E-06	Normal
PB118	U2 Cent Chg Pump 2B	Gas	1.67E-06	Normal
PA228	Aux. Building Vent Efflunt	Particulate	2.09E-14	Normal
PB128	Aux. Building Vent Efflunt	Low Gas	2.11E-06	Normal
PC328	Aux. Building Vent Efflunt	lodine	1.01E-14	Normal
PD428	Aux. Building Vent Efflunt	High Gas	0.00131	Normal
PA228	Aux. Building Vent Efflunt	Particulate	3.23E-15	Normal
PB128	Aux. Building Vent Efflunt	Low Gas	2.28E-06	Normal
PC328	Aux. Building Vent Efflunt	lodine	3.67E-14	Normal
PD428	Aux. Building Vent Efflunt	High Gas	0.00116	Normal
PA130	Wide Range Gas Monitor	U1 Low Gas	5.16E-07	Normal
PB230	Wide Range Gas Monitor	U1 Mid Gas	3.96E-05	Normal
°C330	Wide Range Gas Monitor	U1 High Gas	0.00874	Normal
PA130	Wide Range Gas Monitor	U2 Low Gas	2.83E-07	
PB230	Wide Range Gas Monitor	U2 Mid Gas	1.97E-05	Normal
°C330	Wide Range Gas Monitor	U2 High Gas	0.00169	Normal Normal
F430	Wide Range Gas Monitor	U1 µCi/sec	34.9	Normal
PF430	Wide Range Gas Monitor	U2 µCi/sec	23.9	Normal

PAGE 2 OF 2

All values are in units of µCi/cc unless noted.

<<< *** THIS IS AN EXERCISE *** >>>

Process Radiation Monitors RM-11, Grid 3

TIME =

0730 (T+000)

PROCESS RADIATION MONITORS , GRID 3

RM-11 Code	Description		Value	Alarm Statu
0PA202	Gas Decay Tank Efflunt	Low Gas	7.90E-06	Normal
0PB102	Gas Decay Tank Efflunt	High Gas	4.52E-07	Normal
0PA203	Lab Fume Hood	Particulate	2.01E-14	Normal
0PB103	Lab Fume Hood	Gas	7.62E-06	Normal
0PC303	Lab Fume Hood	lodine	3.67E-14	Normal
0PA211	RW Evap. Cubicle	Particulate	6.35E-13	Normal
0PB111	RW Evap. Cubicle	Gas	2.46E-06	Normal
0PS112	Recycle Evap. Cubicle	Particulate	5.90E-13	Normal
0PA213	Gas Decay Tank Cub.	Particulate	3.23E-15	Normal
0PB113	Gas Decay Tank Cub.	Gas	1.68E-06	Normal
0PS114	Drumming Station	Particulate	1.47E-12	Normal
0PS115	Laundry Room	Pr:ticulate	7.71E-13	Normal
OPA221	Aux. Bidg Vent Exhst 0A	Particulate	4.99E-13	Normal
PB121	Aux. Blog Vent Exhst 0A	Gas	5.88E-06	Normal
PC321	Aux. Bidg Vent Exhst 0A	lodine	3.67E-14	Normal
PA222	Aux. Bldg Vent Exhst 0B	Particulate	9.67E-13	Normal
PB122	Aux. Bidg Vent Exhst 0B	Gas	2.91E-06	Normal
PC322	Aux. Bldg Vent Exhst 0B	lodine	1.51E-14	Normal
PA224	Fuel Building Vent Exhst	Particulate	1.02E-12	Normal
PB124	Fuel Building Vent Exhst	Gas	1.78E-06	Normal
PC324	Fuel Building Vent Exhst	lodine	2.49E-15	Normal
PA225	Misc Tank Vent Effluent	Particulate	4.68E-15	Normal
PB125	Misc Tank Vent Effluent	Gas	2.49E-06	Normal
PC325	Misc Tank Vent Effluent	lodine	1.17E-14	Normal
PA226	RW Area Vent Effluent	Particulate	6.25E-14	Normal
PB126	RW Area Vent Effluent	Gas	1.80E-06	Normal
PC326	RW Area Vent Effluent	lodine	5.73E-15	Normal
PA240	Vol. Reduction Area Vent	Particulate	2.06E-15	Normal
PB140	Vol. Reduction Area Vent	Gas	1.03E-06	Normal
PC340	Vol. Reduction Area Vent	lodine	1.84E-14	Normal
PA260	TSC Vent System	Particulate	4.10E-15	Normal
PB160	TSC Vent System	Gas	2.002-06	Normal
PC360	TSC Vent System	lodine	1.28E-15	Normal
PA221	U1 Pipe Tunnel	Particulate	3.23E-15	Normal
PA221	U2 Pipe Tunnel	Particulate	5.41E-13	Normal
PB121	U1 Pipe Tunnel	Gas	7.12E-06	Normal
PB121	U2 Pipe Tunnel	Gas	4.09E-06	Normal
PC321	U1 Pipe Tunnel	lodine	3.08E-14	Normal
PC321	U2 Pipe Tunnel	lodine	3.67E-14	Normal

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Area Radiation Monitors RM-11 Grid 4

Statement and the statement in statement of the	International Action of the Action of the Action of the	A REAL PROPERTY AND INCOME.	A STATE OF LOCAL DATE		
RM-11 Code		Descript		Value	Alarm Statu
-	and the second s	Elm	OWNERS AND ADDRESS OF ADDRESS		
3AS101	Aux. Buildin			0.158	Normal
3AS202	ALX. Building	g 346		0.33	Normal
3A5303	Aux. Buildin		1 89-107	0.13	Normal
3A. 104	Aux. Building			0.12	Normal
3 \$205	Aux. Building			0.13	Normal
3AS207	Aux. Building			0.21	Normal
3AS308	Aux. Building		10 March 10	0.119	Normal
3A5409	Aux. Building Aux. Building	383		0.16	Normal
3AS110	Aux. Building	363	Bec. 7 5	0.114	Normal
3AS411	Aux. Building	401	M13	0.19	Normai
3AS412	ALEX. Building	401	V17	0.1	Normal
3AS213	Aux. Building		V19	0.105	Normal
3A5314	Aux. Building		N23	0.321	Normal
3AS115	Aux. Building	420	N25	0.13	Normal
3AS416			V18	0.17	Normal
3AS117	Aux. Building		P18	0.14	Normal
3AS331	Aux. Building		Q18	0.118	Normal
3AS232	Aux. Building		HRSS Huom	0.14	Normal
3AS135	Aux. Building Aux. Building		Chem Lab	0.14	Normal
3AS137	FHB Criticality	383	Drumming St.	0.13	Normal
3AS238	FHB Criticality		Z17	0.84	Normal
3AS141	RW Building		AA16	0.18	Normal
3AS142	RW Building	417	Dry Storage	0.107	Normal
3AS243	RW Building	401	H43	0.303	Normai
3AS144	RW Building	140	Truck Bay	1.87	Normai
3AS245	RW Building	J43 K43	Low Stonage	3.2	Normal
3A5146	Vol. Reduction		High Storage	149	Norma!
3AS247	Vol. Reduction	401	L37	0.61	Normal
3AS348	Vol. Reduction	401	K39	0.314	Normal
3AS249	Vol. Reduction	401	K38	0.48	Normal
3AS350	Vol. Reduction	417	J37	0.115	Normal
3AS155	FHB Incident	426	J38	0.311	Normal
3AS156	FHB Incident	426	X15	0.225	Normal
3SA173	TSC #1	435	X21	0.149	Normal
3AS274	TSC #2	451	GI01	0.118	Normal
AS101	U1 Containmt	426	HH01 R07	0.121	Normal
5AS101	U2 Containmt	426	R26	2.81	Normal
AS202	U1 Containmt	401	R17	3.34	Normal
AS202	U2 Containmt	401	R37	0.986	Normal
A\$303	U1 Containmt	401	Incore Seal Rm		Normal
A\$303	U2 Containmt	401	incore Seal Rm	4.87	Normal
AS210	U1 Control Rm		P17	0.127	Normal
AS310	U2 Control Rm		L17	0.12/	Normal
AS111	U1 Containmt		FH Incident		Normal
AS111	U2 Containmt		FH Incident	38.2	Normai
AS112	U1 Containmt		FH Incident	19.5 23.8	Normal
AS112	U2 Containmt		FH Incident	18.1	Normal
AS113	U1 VCT Cube	426	Aux. S15	153.6	Normal
AS113	U2 VCT Cube	426	Aux. S23	174	Normal
AS120	U1 Containmt		High Range	1460	Normal
A\$120	U2 Containmt		High Range	1350	Normal
AS121	U1 Containmt		High Range	1260	Normal
AS121	U2 Containmt		High Range	1480	Normal
M124	U1 Steam Tnl	377	R20	5.4	Normal
M124	U2 Steam Thi	377	RS4	2.66	Normal
B224	U1 Steam Tnl	377	R13	0.184	Normal
Ь224	U2 Steam Thi	377	R41	0.46	Normal
A125	U1 Pipe Pentr	364	Aux. ROS	16.7	
A125	A term many and	364	Aux. R28	25.2	Normal
8225	and the second of the second o	364	Aux R07	15.9	
B225		364	Aux R26	15.1	Normal
A126		383	ALIX. ROT	15.5	Normal
A126		383	Aux. R26	20.1	Normal
	a set and the set of t	383	Aux. R05	22.9	Normal
	a sea and a sea a se	383	Aux. R28	18.4	Normal
	a big the contract of the cont	401	Aux. R07	10.4	Normal
A127		401	Aux. R26	14	Normal
B227		401	Aux. ROS	7.04	Normal
	a man and a second	401	Then, Fridd	1.00	Normal

All Values are in Units of mR/h unless noted 1

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TREND	10 MIN X24	GRO	SS FAILED	FUEL	11-15-5	95 07:30:00	
NAME	TYPE	CHANNEL	ID	DESCRIPTIC	DN	VALUE	UNITS
1PS206	LIQ	PRM-IRE-PR	1006 GR	OSS FAILED F	UEL, HIGH	2.15E+0	UCMIL
		v	v	v	v	AL	ARM
2.15E+0	mm	mmm	mmm	mmm	mmm	mmm	
2.148+0	mm	mmm	mmm		mmm	mm	
2.11E+0				mmmm			
2.08E+0				mmm			
2.03E+0				mmmm			
1.97E+0				mmm			
1.90E+0				mmmm		v vvvvvv	
1.82E+0	mm	mmm	mmm	mmm	~~~~~~		
1.27E+0	mm	mmmm	mmm	mmmm	*****	YYYYY V	
1.00E.2		GGGGGGGGG			v	v	
1.08E-2		GGGGGGGGG			v	v	
1.08E-2		GGGGGGGGG			v	v	
1.088-2		GGGGGGGGGG			v	v	
1.08E-2		GGGGGGGGGG			v	v	
1.08E-2		GGGGGGGGGG			v	v	
1.08E-2		GGGGGGGGGG			v	v	
1.08E-2		GGGGGGGGGG			v	v	
1.08E-2		GGGGGGGGGG			v	v	
1.08E-2		GGGGGGGGGGG			v	v	
1.08E-2		GGGGGGGGGGG			v	v	
1.08E-2		GGGGGGGGGGG			v	v	
1.08E-2		GGGGGGGGGG		A State of the state of the state of the state of the	v		
1.08E-2		GGGGGGGGGG			v	v	
1.08E.2		GGGGGGGGGGG					
1.08E-2		GGGGGGGGGG			v	V	
				00000000	v	v	

RM-11 POINT TREND FAILED FUEL MONITOR INITIAL CONDITIONS (T+000)

<<< *** THIS IS AN EXERCISE *** >>>

CONTROL ROOM MESSAGE CR-2

TIME : 0730 (T+000)

ISSUED TO : UNIT 2 NSO

PREREQUISITE : EXERCISE HAS BEEN INITIATED

MESSAGE

The following Control Room Alarm(s) are present on the Control Room Panels :

Unit 2, Panels : ALL	
NO ALARMS PRESENT	

BYRON 1995 GSEP EXERCISE NOVEMBER 15, 1995

IN PLANT EQUIPMENT AVAILABILITY

TIME :

0730 (T+000)

INITIAL CONDITIONS : UNIT 2

Pump Type	A	В	C	D	Other
Reactor Coolant Pumps	R	R	R	R	NAME AND DESCRIPTION OF TAXABLE PARTY.
RCFC	RH	RH	RH	AV	
CV Pumps	R	AV			PDP - OOS
SI Pumps	AV	AV			101-005
RH Pumps	AV	AV			
CS Pumps	AV	AV			
CC Pumps	AV	AV			0 - AV
Aux Feed Pumps	AV	AV			U- AV

Reactor Systems	Electrical Equipment		Status
Rx Trip Breakers	A - OPEN B - OPEN	SATs	242-1 ENG 242-2 ENG
Rod Positions	Bank D @ 220 Steps ; All Other Rods Full Out	UATS	241-1 ENG 241-2 ENG
Primary PORVs	CLOSED	6.9 kV Busses	156 ENG 157 ENG 158 ENG 159 ENG
Secondary PORVs	CLOSED	4 kV Busses	141 ENG 142 ENG 143 ENG 144 ENG
Primary Safeties	CLOSED	125V AC Instrument	111 ENG 112 ENG 113 ENG 114 ENG
Secondary Safeties	CLOSED	120V DC Busses	111 ENG 112 ENG 113 ENG 114 ENG
Other Information : Unit 0 CC Pump is aligned to Unit 1 Bus 142		250V DC Busses	U1 ENG U2 ENG
		Diesel Generators	2A AV 2B AV

THIS IS AN EXERCISE

g lepexer/byron/equip.wpf3

CONTROL ROOM MESSAGE CR-3

TIME : 0730 (T+000)

ISSUED TO : CONTROL ROOM A-MODEL PRINTER

PREREQUISITE : EXERCISE HAS BEEN INITIATED

MESSAGE

"THIS IS AN EXERCISE : The following message has been printed on the A-Model Printer :

Time = 0740 (10)				PLANT STATUS-2
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	
Rx POWER	30.33	PC	PRT LEVEL	74.71	PC
	-99.99 -99.99 0.00 2239.26	DEGF DEGF DEGF PC PSIG PSIG	PRT PRESSURE VCT LEVEL CHARGING FLOW LETDOWN FLOW RVLIS-HEAD RVLIS-PLENUM	0.00 0.00 84.45 69.30 100.00 100.00	PSIG PC GPM GPM PC
W.R. RCS TEMP	LOOPLA	LOOPIB	LOOPIC	LOOPID	192790
HOT LEG:	571.10	671 10			UNITS
COLD LEG:	552.41	571.10		571.15	DEGF
TAVE :	561.72	552.49		552.12	DEGF
	361.72	561.76	561.78	561.59	DEGF
SECONDARY	LOOPLA	LOOPIB	LOOPIC	LOOPID	UNITS
SG PRESS	979.99	979.81			
S/G NR LEVEL	66.00	66.00	979.69	980.63	PSIG
S/G WR LEVEL	60.73		66.00	66.00	PC
S/G STM FL	0.00	60.75	60.76	60.67	PC
S/G FEED FL	992.59	990.47		1063.61	KBH
GENERATOR OUTFUT	303.17	976.82	965.54	1047.53	KBH
CST LEVEL	89.15	MW PC	COND PRESS	0.00	INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917		GPM		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
SI FLW TRAIN A	0.00	GPM	CNMT PRESS	0.10	PSIG
67 877 87 80 M M M M M M		GPM	CNMT TEMP	108.37	DEGF
RHR FLW TRAIN A	0.00	GPM	CNMT HYDROGEN	0.00	PC
RHR FLW TRAIN B	0.00	GPM	RECIRC SUMP LVL	19.72	INCHES
CS FLOW TRAIN A	0.00		CNMT FLW WTR LVL	0.00	INCHES
CST FLOW TRAIN B	0.00	GPM			
RWST LEVEL	93.59	GPM PC			
	22.22	PC			

	Time = 0750 (20)					PLANT STATUS-
	PRIMARY	VALUE	UNITS	PRIMARY	VALUE	
	Rx POWER	30.32	PC	PRT LEVEL	74.71	PC
	AUCT HI TAVE	561.76	DEGF	PRT PRESSURE	-0.00	PSIG
	AVG 10HI CETS	-99,99	DEGF	VCT LEVEL CHARGING FLOW	0.00	PC
	CORE SUB COOLING	-99.99	DEGF	LETDOWN FLOW		GPM
	PRZR LEVEL	0.00	DC	RVLIS-HEAD	69.30	
	PRZR PRESSURE 2	239.19	PSTG	RVLIS-PLENUM	100.00	
	RCS WR PRESSURE 2	247.41	PSIG	ALLE ADDITOR	100.00	PC
	W.R. RCS TEMP	LOOPIA	100010			
		2001 20	TOOLTP	LOOPIC	LOOPID	UNITS
	HOT LEG:	571.07	571.07	571.07	671 10	
	COLD LEG:	552.38			552.09	DEGF
	TAVE :	561.69			561.57	DEGF
				001.70	361.57	DEGF
1	SECONDARY	LOOPLA	LOOP1B	LOOPIC	LOOPID	UNITS
-	SG PRESS				200120	ONTID
	SG PRESS S/G NR LEVEL	979.78	979.60		980.42	PSIG
	S/G WR LEVEL	66.00	66.00	66.00	66.00	PC
1	S/G STM FL	60.73 0.00	60.75	60.76	60.67	PC
1	S/G FEED FL	0.00	990.51	980.17	1063.66	KBH
ć	GENERATOR OUTPUT	303.17	976.78	965.38	1047.83	KBH
C	CST LEVEL	89.11	MW	COND PRESS	0.00	INHGA
1		09.11	PC			
I	ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
C	CV FL1F1-917		GPM			
	SI FLW TRAIN A	0.00	GPM	CNMT PRESS	0.10	PSIG
52	SI FLW TRAIN B	0.00		CNMT TEMP	108.37	DEGF
F	RHR FLW TRAIN A	0.00		CNMT HYDROGEN	0.00	PC
F	CHR FLW TRAIN B	0.00	GPM	RECIRC SUMP LVL		INCHES
C	S FLOW TRAIN A	0.00	GPM	CNMT FLW WTR LVL	0.00	INCHES
C	ST FLOW TRAIN B	0.00	GPM			
R	WST LEVEL	93.59	PC			

3-3

.

Time = 0800 (30					PLANT STATUS-4
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
Rx POWER	30.30	PC	PRT LEVEL	74.71	PC
AUCT HI TAVE AVG 10HI CETS CORE SUB COOLING PRZR LEVEL PRZR PRESSURE RCS WR PRESSURE	0.00	DEGF DEGF DEGF PC PSIG PSIG	PRT PRESSURE VCT LEVEL CHARGING FLOW LETDOWN FLOW RVLIS-HEAD RVLIS-PLENUM	0.00 0.00 84.36 69.30 100.00 100.00	PSIG PC GPM GPM PC PC
W.R. RCS TEMP	LOOPIA	LOOPIB	LOOPIC	LOOPID	UNITS
HOT LEG: COLD LEG: TAVE:	570.99 552.30 561.61	552.39	570.99 552.44	571.04 552.01 561.49	DEGF DEGF DEGF
SECONDARY	LOOPLA	LOOPIB	LOOPIC	LOOP1D	UNITS
SG PRESS S/G NR LEVEL S/G WR LEVEL S/G STM FL S/G FEED FL GENERATOR OUTPUT CST LEVEL	979.15 66.00 60.74 0.00 992.54 303.16 89.06	978.97 66.00 60.76 990.54 976.83 MW PC	978.85 66.00 60.77 980.55 965.45 COND PRESS	979.79 66.00 60.67 1063.64 1047.55 0.00	PSIG PC PC KBH KBH INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917 SI FLW TRAIN A SI FLW TRAIN B RHR FLW TRAIN A RHR FLW TRAIN B CS FLOW TRAIN A CST FLOW TRAIN B RWST LEVEL	0.00 0.00 0.00 0.00 0.00 0.00 93.59	GPM GPM GPM GPM GPM GPM PC	CNMT PRESS CNMT TEMP CNMT HYDROGEN RECIRC SUMP LVL CNMT FLW WTR LVL	0.10 108.38 0.00 19.72 0.00	PSIG DEGF PC INCHES INCHES

<<< *** THIS IS AN EXERCISE *** >>>

CONTROL ROOM MESSAGE CH-4

TIME : 0805 (T+035)

ISSUED TO : UNIT 1 NSO

PREREQUISITE :

MAIN TURBINE TRIP HAS OCCURRED

MESSAGE

ISSUE the following information VERBALLY :

The Unit 1 Main Turbine has tripped.

The Unit 1 Reactor has not tripped.

CONTROL ROOM MESSAGE CR-5

TIME : 0805 (T+035)

ISSUED TO : UNIT 1 NSO

PREREQUISITE : MAIN TURBINE TRIP HAS OCCURRED

MESSAGE

The following Control Room Alarm(s) have been received :

	Unit 1
TURBINE THRUS	T BEARING WEAR (TURBINE SUPERVISORY PANEL)
TUR	RBINE STOP VALVE CLOSED (1-18-A4)
TURBINE EMER	RGENCY TRIP OIL HEADER PRESS LOW (1-18-B4)
TURBIN	NE AUTO STOP OIL PRESS LOW (1-18-B4)
TURBI	NE THRUST BEARING FAILURE (1-18-D2)
RE	LIEF VALVE 1RY455A OPEN (1-12-B2)
GENERAT	OR REVERSE POWER GENERATOR (1-19-A2)
GENERAT	TOR LOCKOUT RELAY 86G1B TRIP (1-19-E2)
PERMANENT MAG	NET GENERATOR SUPPLY BREAKER TRIP (1-19-A8)
GENERA	TOR VOLTAGE REGULATOR TRIP (1-19-88)
GE	NERATOR STABILIZER TRIP (1-19-D8)
BUS 14	3 UAT 141-1 FD BREAKER 1431 (1-21-A1)
BUS 14	4 UAT 141-2 FD BREAKER 1441 (1-22-A1)
BUS 15	6 UAT 141-2 FD BREAKER 1561 (1-20-B7)
BUS 15	7 UAT 141-1 FD BREAKER 1571 (1-20-B5)
	345KV OCB 3-4 TRIP (0-35-B2)
	345KV OCB 4-5 TRIP (0-35-B1)

CONTROL ROOM MESSAGE CR-6

TIME : 0805 - 0810 (T+035 - T+040)

ISSUED TO : UNIT 1 NSO

PREREQUISITE : MAIN TURBINE TRIP HAS OCCURRED ; FAILURE OF REACTOR AUTOMATIC TRIP

MESSAGE

ISSUE the following information VERBALLY :

PARTICIPANT ACTIONS	RESULTS OR OBSERVATIONS
Unit 1 NSO manually trips the Reactor using the Manual Trip Breakers.	The Reactor is successfully tripped.

CONTROL ROOM MESSAGE CR-7

TIME : 0805 - 0810 (T+035 - T+040)

ISSUED TO : UNIT 1 NSO

PREREQUISITE : REACTOR HAS BEEN MANUALLY TRIPPED

MESSAGE

The following Control Room Alarm(s) have been received :

Unit 1

MANUAL RX TRIP (1-11-A1) REACTOR TRIP BREAKER A/B (1-10-A8) REACTOR TURBINE TRIP (1-11-A9) LOOSE PARTS MONITORING SYSTEM IMPACT NOISE LEVEL (1-13-E9) ROD AT BOTTOM RB1/RB2 (1-10-E6)

BYRON 1995 GSEP EXERCISE NOVEMBER 15, 1995

IN PLANT EQUIPMENT AVAILABILITY

TIME :

0805 (T+035)

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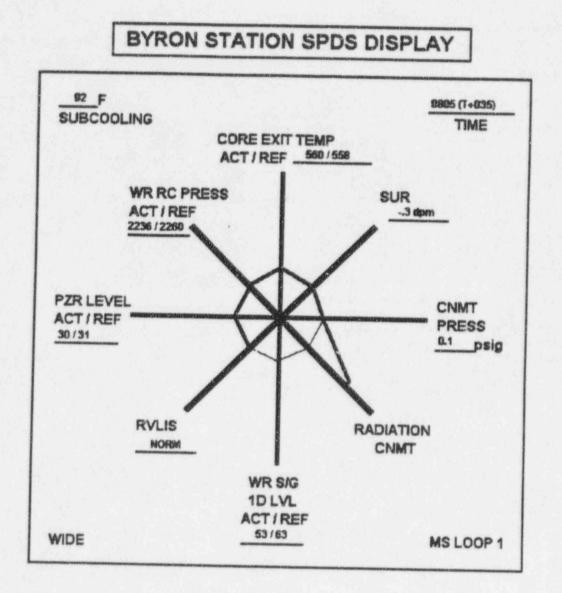
UNIT 1

Pump Type	A	В	С	D	Other
Reactor Coolant Pumps	R	R	R	R	RANDO LINITAN PORTUGUE AN INCOMPANYA AND A
RCFC	RH	RH	RH	AV	
CV Pumps	R	AV		• • • • • • • •	PDP - OOS
SI Pumps	AV	AV			
RH Pumps	AV	AV			
CS Pumps	AV	AV			
CC Pumps	R	oos			0 - AV
Aux Feed Pumps	R	B			U-AV

Reactor Systems	Status	Electrical Equipment	Status
Rx Trip Breakers (AFTER MANUAL TRIP)	A - CLOSED B - CLOSED	SATs	142-1 ENG 142-2 ENG
Rod Positions (AFTER MANUAL TRIP)	All Rods Full in	UATs	141-1 ENG 141-2 RNG
Primary PORVs	CLOSED	6.9 kV Busses	156 ENG 157 ENG 158 ENG 159 ENG
Secondary PORVs	CLOSED	4 kV Busses	141 ENG 142 ENG 143 ENG 144 ENG
Primary Safeties	CLOSED	125V AC Instrument	111 ENG 112 ENG 113 ENG 114 ENG
Secondary Sateties	CLOSED	120V DC Busses	111 ENG 112 ENG 113 ENG 114 ENG
Other Information : Unit 0 CC Pump is aligned to Bus 142		250V DC Busses	U1 ENG U2 ENG
		Diesel Generators	1A AV 1B AV

THIS IS AN EXERCISE

g 'epexer/byron/equip.wpf/4



K: BYRON95 EXERCISE SPD S0805.BMP

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<<< *** THIS IS AN EXERCISE *** >>>

Time = 0810 (40)					DT BATTO CONSTITUTO
PRIMARY	VALUE	UNITS	PRIMARY		PLANT STATUS-5
By DOMED			ENTRALI	VALUE	UNITS
Rx POWER	0.00	PC	PRT LEVEL	0.00	PC
AUCT HI TAVE AVG 10HI CETS CORE SUB COOLING PRZR LEVEL PRZR PRESSURE RCS WR PRESSURE	0.00 0.00 0.00 0.00 0.00 0.00	DEGF DEGF DEGF PC PSIG PSIG	PRT PRESSURE VCT LEVEL CHARGING FLOW LETDOWN FLOW RVLIS-HEAD RVLIS-PLENUM		PSIG PC GPM GPM PC PC PC
W.R. RCS TEMP	LOOPLA	LOOPIB	LOOPIC	LOOPID	UNITS
HOT LEG:	0.00	0.00	0.00	0.00	
COLD LEG:	0.00	0.00	0.00	0.00	DEGF
TAVE :	0.00	0.00	0.00	0.00	DEGF DEGF
SECONDARY	LOOPLA	LOOPIB	LOOPIC	LOOPID	UN
SG PRESS	0.00	0.00	0.00		
S/G NR LEVEL	0.00	0.00	0.00	0.00	PSI,
S/G WR LEVEL	0.00	0.00	0.00	0.00	PC
S/G STM FL	0.00	0.00	0.00	0.00	PC
S/G FEED FL	0.00	0.00	0.00	0.00	KBH
GENERATOR OUTPUT	0.00	MW	COND PRESS	0.00	KBH
CST LEVEL	0.00	PC	COND FRESS	0.00	INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917		GPM	CNMT PRESS	0.00	
SI FLW TRAIN A	0.00	GPM	CNMT TEMP	0.00	PSIG
SI FLW TRAIN B	0.00	GPM	CNMT HYDROGEN	0.00	DEGF
RHR FLW TRAIN A	0.00	GPM	RECIRC SUMP LVL	0.00	PC
RHR FLW TRAIN B	0.00	GPM	CNMT FLW WTR LVL	0.00	INCHES
CS FLOW TRAIN A	0.00	GPM	THE THE MAK TAT	0.00	INCHES
CST FLOW TRAIN B	0.00	GPM			
RWST LEVEL	0.00	PC			

CONTROL ROOM MESSAGE CR-8

TIME : 0810 - 0820 (T+040 - T+050)

ISSUED TO : UNIT 1 SUPERVISOR or UNIT 1 NSO

PREREQUISITE : MAIN TURBINE TRIP HAS OCCURRED

MESSAGE

ISSUE the following information VERBALLY :

"THIS IS AN EXERCISE : This is ____(person name)____, at Bulk Power Operations. Do you have a problem with Byron Unit 1 ? We are seeing a loss of station output."

CONTROLLER NOTE : 1.

Issue this message after 0825 (T+055) IF participants have not contacted the Load Dispatcher with the information about the U1 Reactor trip.

Time = 0820 (50)					PLANT STATUS-6
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	
Rx POWER	0.00	PC	PRT LEVEL	74.71	PC
AUCT HI TAVE AVG 10HI CETS CORE SUB COOLING PRZR LEVEL PRZR PRESSURE 2 RCS WR PRESSURE 2	-99.99 -99.99 0.00 256.57	DEGF DEGF DEGF PC PSIG PSIG	PRT PRESSURE VCT LEVEL CHARGING FLOW LETDOWN FLOW RVLIS-HEAD RVLIS-PLENUM	0.00 0.00 113.41 69.87 100.00 100.00	PSIG PC GPM GPM
W.R. RCS TEMP	LOOPIA	LOOPIB	LOOPIC	LOOPID	UNITS
HOT LEG: COLD LEG: TAVE:	555.17 554.70 554.79	554.74	554 78	555.17 554.76 554.79	
SECONDARY	LOOPLA	LOOPIB	LOOPIC	LOOP1D	UNITS
SG PRESS S/G NR LEVEL S/G WR LEVEL S/G STM FL S/G FEED FL GENERATOR OUTPUT CST LEVEL	40.31 55.23 0.00	1065.65 40.82 55.37 19.66	1065.65 41.00 55.43 17.96	1065.96 38.76 54.71 21.73 0.00	PSIG PC PC KBH KBH INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
RHR FLW TRAIN A RHR FLW TRAIN B	0.00 0.00 0.00 0.00 0.00 0.00 93.59	GPM GPM GPM GPM GPM GPM GPM PC	CNMT PRESS CNMT TEMP CNMT HYDROGEN RECIRC SUMP LVL CNMT FLW WTR LVL	0.10 108.40 0.00 19.72 0.00	PSIG DEGF PC INCHES INCHES

<<< *** THIS IS AN EXERCISE *** >>>

Time = 0830 (60)				PLANT STATUS-7
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
Rx POWER	0.00	PC	PRT LEVEL	74.71	PC
AUCT HI TAVE AVG 10HI CETS CORE SUB COOLING PRZR LEVEL PRZR PRESSURE RCS WR FRESSURE	-99.99 -99.99 0.00 2241.65	DEGF DEGF DEGF PC PSIG PSIG	PRT PRESSURE VCT LEVEL CHARGING FLOW LETDOWN FLOW RVLIS-HEAD RVLIS-PLENUM	0.00 0.00 57.25 69.40 100.00 100.00	PSIG PC GPM GPM PC PC
W D DOS MPLOS					
W.R. RCS TEMP	LOOPIA	LOOPIB	LOOP1C	LOOP1D	UNITS
HOT LEG: COLD LEG: TAVE:	558.82 558.32 558.56	558.83 558.30 558.54	558.33	558.91 558.36 558.62	DEGF DEGF DEGF
SECONDARY	LOOPLA	LOOPIB	LOOPIC	LOOPID	UNITS
SG PRESS S/G NR LEVEL S/G WR LEVEL S/G STM FL S/G FEED FL GENERATOR OUTPUT CST LEVEL	39.84 54.76 0.00 0.00	40.82	54.97 37.99	37.78 54.11 41.61 0.00	PSIG PC PC KBH KBH INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917 SI FLW TRAIN A SI FLW TRAIN B RHR FLW TRAIN A RHR FLW TRAIN B CS FLOW TRAIN A CST FLOW TRAIN B RWST LEVEL	0.00	GPM GPM GPM GPM GPM GPM PC	CNMT PRESS CNMT TEMP CNMT HYDROGEN RECIRC SUMP LVL CNMT FLW WTR LVL	0.10 108.38 0.00 19.72 0.00	PSIG DEGF PC INCHES INCHES

CONTROL ROOM MESSAGE CR-9

TIME : 0830 (T+060)

ISSUED TO : UNIT 1 NSO

Participant - Your

PREREQUISITE : RM-11 SINGLE CHANNEL FAILURE HAS OCCURRED

MESSAGE

The following Control Room Alarm(s) have been received :

Unit 1 RM-11	
You hear the RM-11 audible alarm	

PARTICIPANT ACTIONS	RESULTS OR OBSERVATIONS		
NSO checks the RM-11.	The Grid 4 Status Block is flashing RED.		
NSO selects Grid 4.	Channel 3AS155 (Fuel Handling Building, Fuel Handling Incident, 426 elev. at X15) is flashing RED.		
NSO selects 3AS155.	The Channel display is outlined in white with a solid red box color.		
NSO trends 3AS155.	The display shows the bar graph at max- imum position (full right, exceeds the high alarm setpoint of 5 mR/h).		

CONTROL ROOM MESSAGE CR-10

TIME : 0830 (T+060)

ISSUED TO : UNIT 1 NSO

PREREQUISITE :

1A FUEL HANDLING BUILDING BOOSTER FAN HAS STARTED

MESSAGE

ISSUE the following information VERBALLY :

The Fuel Handling Building Booster Fan (10VA04CA) has started.

CONTROLLER NOTE : If Participants attempt to manually secure FHB Booster Fan prior t seizing at 0840 (T+070), ISSUE the fan seizing message BEFORE the ium

Area and Process Radiation Monitors Grid 1

TIME .

AREA RADIATION MONITORS , GRID 1

0830 (T+060)

RM-11 Code	Description	Value mR/h	Alarm Status	
4AA122	U1 Main Steam Line	Rm R13	0.094	Normal
5AA122	U2 Main Steam Line	Rm R41	0.108	Normal
4AA123	U1 Main Steam Line	Rm R13	0.084	Normal
5AA123	U2 Main Steam Line	Rm R41	0.077	Normal
4AB222	U1 Main Steam Line	Rm R20	0.122	Normal
5AB222	U2 Main Steam Line	Rm R34	0.095	Normal
4AB223	U1 Main Steam Line	Rm R20	0.129	Normal
5AB223	U2 Main Steam Line	Rm R34	0.105	Normal
4AC322	U1 Main Steam Line	Rm R20	0.131	Normal
5AC322	U2 Main Steam Line	Rm R34	0.085	Normal
4AC323	U1 Main Steam Line	Rm R20	0.209	Normal
5AC323	U2 Main Steam Line	Rm R34	0.093	Normal
1AD422	U1 Main Steam Line	Rm R13	0.333	Normal
5AD422	U2 Main Steam Line	Rm R41	0.173	Normai
AD423	U1 Main Steam Line	Rm R13	0.105	Normal
5AD423	U2 Main Steam Line	Rm R41	0.11	Normal

PROCESS RADIATION MONITORS , GRID 1

RM-11 Code	Description	Value µCi/cc	Alarm Status
0PS101	Liq. Radwate Effluent	1.00E-08	Normal
0PS105	TB Fire & Oil Sump	8.90E-08	Normal
0PS106	RW Evap Conds. Return 0A	1.00E-08	a contraction of the second second
0PS107	RW Evap Conds. Return 0B	1.002-08	
0PS108	RW Evap Conds. Return 0C	1.00E-03	Normal
0PS109	CC Heat Exchg 0 Water Outlet	4.48E-07	Normal
0PS110	Station Blowdown	9.91E-07	Normal
0PS116	Blowdown Afterfilter 0A Outlet	2.57E-06	Normal
0PS117	Blowdown Afterfilter 0B Outlet	7.80E-09	Normal
0PS118	Biowdown Afterfilter OC Outlet	7.81E-09	Normal
0PS119	Blowdown Afterfilter 0D Outlet	4.33E-07	Normal
0PS141	Condensate Polisher Hi/Low Sumps	1.00E-09	Normal
1PS102	U1 RCFC Sx Water Outlet, 1A / 1C	7.81E-09	Normal
2PS102	U1 RCFC Sx Water Outlet. 2A / 2C	8.45E-08	Normal
IPS103	U1 RCFC Sx Water Outlet. 1B / 1D	7.80E-09	Normal
2PS103	U1 RCFC Sx Water Outlet, 2B / 2D	1.11E-08	Normal
IPS106	U1 Gross Failed Fuel, Low Energy	2.00E+00	Normal
2PS106	U2 Gross Failed Fuel, Low Energy	2.09E+00	Normal
PS206	U1 Gross Failed Fuel, High Energy	3.15E+00	Hi Alarm
PS206	U2 Gross Failed Fuel, High Energy	4.24E-02	Normal
PS107	U1 BTR Chiller Surge Tank Return	1.00E-08	Normal
PS107	U2 BTR Chiller Surge Tank Return	1.00E-08	Normal
PS108	U1 Steam Generator Blowdown	2.00E-06	Normal
PS108	U2 Steam Generator Blowdown	1.06E-06	Normal
PS109	U1 CC Heat Exch Water Outlet 1	1.34E-07	Normal
PS109	U2 CC Heat Exch Water Outlet 2	2.43E-07	Normal
PS127	U1 SJAE Gland Steam Exhaust, Gas	1.00E-06	Normal
PS127	U2 SJAE Gland Steam Exhaust, Gas	1.06E-06	Normal

Rad Monitors in units of mR/h. Process Monitors are in units of µCi/cc. .

Area Radiation Monitora RM-11 Grid 4

RM-11 Code	Description Value Alarm State						
	Des	Elev. Location					
3A\$101	Aux, Building	346 P13	0.158	Normal			
3A5202	Aux. Building	348 \$18	0.33	Normal			
3AS303	Aux. Building	346 P25	0.13	Normal			
3AS104	ALD. Building	364 P11	0.12	Normal			
345205	Aux. Building	364 P18	0.13	Normal			
3AS306	Aux. Building	364 M23	0.21	Normal			
3AS207	Aux Building	383 M24	0.119	Normal			
3AS308	Aux. Building	383 \$18	0.16	Normal			
3AS409	Aux. Building	383 L11	0.114	Normal			
3A\$110	Aux. Building	401 M13	0.19	Normal			
3AS411	Aux. Building	401 V17	0.1	Normal			
3AS412	Aux. Building	401 V19	0.105	Normal			
3AS213	Aux. Building	401 N23	0.321	Nonsal			
3AS314 3AS115		426 N25	0.13	Normal			
3AS416		426 V18	0.17	Normal			
3AS117		426 P18	0.14	Normal			
3AS331		451 Q18	0.118	Normal			
3AS232		401 HRSS Room		Normal			
3AS135		426 Chem Leb	0.14	Normal			
3AS137		383 Drumming Si		Normal			
3AS238	and some over the second second second	426 Z17 401 AA16	0.84	Normel			
3AS141	the second se		0.18	Normai			
AS142	and the second se	617 Dry Stonege 601 H43	0.107	Normal			
AS243	RW Building	Truck Bay	0.303	Normal			
AS144		143 Low Storage	1.87	Normal			
AS245	And a second sec	(43 High Storage		Normal			
AS146		101 L37	0.61	Normal			
AS247	And a second sec	101 K39	0.314	Normal			
AS348	Vol. Reduction	IO1 K38	0.48	Normal			
AS249		IO1 J37	0.115	Normal			
AS350		17 J38	0.311	Normal			
AS155		26 X15	OSH	Hi Alam			
AS156		26 X21	0.149	Normal			
SA173	and the local division of the local division	35 GIO1	0.118	Normal			
AS274 AS101		51 HH01	0.121	Normal			
AS101		26 R07	2.81	Normal			
AS202		26 R26	3.34	Normal			
AS202		01 R17	0.986	Normal			
\$303		01 R37	0.681	Normal			
\$303	4 242	01 Incore Seel Rm		Normal			
\$210	U1 Control Rm	CONTRACTOR CONTRACTOR		Normal			
\$310	U2 Control Rm	P17	0.127	Normal			
S111	U1 Containmt	L17 FH Incident	0.116	Normal			
S111	U2 Containmt	FH Incide	30	Normai			
\$112	U1 Containmt	FK Inclu	-	Norms			
\$112	U2 Containent	FH Incidem	- 1	Normal			
\$113	UI VCT Cube 42		153.	Normal			
S113	UZ VCT Cube 42	a constant and a set	174	ame			
\$120	U1 Containmt	High Range	1460	INF MBI			
\$120	U2 Containmt	High Range	1350	Non. 1			
\$121	U1 Containmt	High Range	1260	Norma			
S121	U2 Containmt	High Range	1480	Normal			
A124	U1 Steam Thi 37	7 R20	5.4	Normal			
A124	U2 Steam Thi 37		2.65	Normal			
B224	U1 Steam Tril 37		0.194	Normal			
B224	U2 Steam Tri 37		0.46	Normal			
A125	U1 Pipe Pentr 36		16.7	Normal			
A125	U2 Pipe Pentr 36	Contract Contractor	25.2	Norma!			
	U1 Pipe Pentr 36		15.9	Normal			
	U2 Pipe Pentr 36		15.1	Normal			
	U1 Pipe Pentr 38:		15.5	Normal			
	U2 Pipe Pentr 383		20.1	Normal			
3226	U1 Pipe Pentr 383		22.9	Normal			
	U2 Pipe Pentr 383	- merti - server	18.4	Normal			
127	U1 Pipe Pentr 401		10.7	Normai			
	U2 Pipe Pentr 401	ALDI. R26	14	Normal			
227	U1 Pipe Pentr 401		7.04	Normal			

All Values are in Linits of mR/h unless noted. 1

Time = 0840 (70))				PLANT STATUS-8
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
Rx PCWER	0.00	PC	PRT LEVEL	74.71	PC
AUCT HI TAVE AVG 10HI CETS CORE SUB COOLING PRZR LEVEL PRZR PRESSURE RCS WR PRESSURE	~99.99 -99.99 0.00 2244.12	DEGF DEGF DEGF PC PSIG PSIG	PRT PRESSURE VCT LEVEL CHARGING FLOW LETDOWN FLOW RVLIS-HEAD RVLIS-PLENUM	0.00 0.00 88.86 69.54 100.00 100.00	PSIG PC GPM GPM PC PC
W.R. RCS TEMP	LOOPLA	LOOPIB	LOOPIC	LOOPID	UNITS
HOT LEG: COLD LEG: TAVE:	558.23 557.80 557.97	558.23 557.78 557.97	558.23 557.81 557.98	558.29 557.82 558.01	DEGF DEGF DEGF
SECONDARY	LOOPLA	LOOPIB	LOOPIC	LOOPID	UNITS
SG PRESS S/G NR LEVEL S/G WR LEVEL S/G STM FL S/G FEED FL GENERATOR OUTPUT CST LEVEL	1093.28 40.72 55.19 0.00 0.00 0.00 86.96	1093.28 42.34 55.71 18.06 0.00 MW PC	1093.28 41.33 55.38 18.53 0.00 COND PRESS	1093.56 38.74 54.57 19.50 0.00 0.00	PSIG PC PC KBH KBH INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917 SI FLW TRAIN A SI FLW TRAIN B RHR FLW TRAIN A RHR FLW TRAIN B CS FLOW TRAIN A CST FLOW TRAIN B RWST LEVEL	0.00 0.00 0.00 0.00 0.00 93.59	GPM GPM GPM GPM GPM GPM PC	CNMT PRESS CNMT TEMP CNMT HYDROGEN RECIRC SUMP LVL CNMT FLW WTR LVL	0.10 108.38 0.00 19.72 0.00	PSIG DEGF PC INCHES INCHES

.

CONTROL ROOM MESSAGE CR-11

TIME : 0840 (T+070)

ISSUED TO : UNIT 1 NSO

PREREQUISITE : 1A FUEL HANDLING BUILDING BOOSTER FAN MOTOR HAS SEIZED

MESSAGE

Provide ONE of the following, depending on the position of the FHB Fan Control :

IF THE FHB FAN CONTROL SWITCH IS IN THE AFTER/START POSITION :

Unit 0
1. Alarm 0-34-C8 (FH CHAR BSTR FAN A/B TRIP FLOW HIGH LOW) is received

2. Fan run indication on the panel shows an AMBER light.

OR

IE THE FHB FAN CONTROL SWITCH IS IN THE AFTER/TRIP POSITION :

No indication is received on the 34 Panel.

CONTROL ROOM MESSAGE CR-12

*IME : 0845 (T+075)

1.1

ISSUED TO : UNIT 1 NSO

1

10

PREREQUISITE : FAILURE OF SOURCE RANGE MONITOR

MESSAGE

ISSUE the following information VERBALLY :

The N-31 Source Range Monitor no longer has indication.

1.0

Time = 0850 (80))				PLANT STATUS-9
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
Rx POWER	0.00	PC	PRT LEVEL	74.71	PC
AUCT HI TAVE	558.16	DEGF	PRT PRESSURE VCT LEVEL	0.00	PSIG
AVG 10HI CETS	-99.99	DEGF	CHARGING FLOW	0.00	PC
CORE SUB COOLING		DEGF	LETDOWN FLOW	69.37	GPM ·
PRZR LEVEL	0.00	PC	RVLIS-HEAD	100.00	PC
PRZR PRESSURE 2 RCS WR PRESSURE 2	2241.23 2248.93	PSIG PSIG	RVLIS-PLENUM	100.00	PC
W.R. RCS TEMP	LOOPIA				
W.A. NOD THME	TOOLTY	LOOP1.B	LOOPIC	LOOPID	UNITS
HOT LEG:	558.37		558.37	558.43	DEGF
COLD LEG:	557.95		557.96	557.97	DEGF
TAVE :	558.12	558.11	558.13	558.16	DEGF
SECONDARY	LOOPLA	LOOPIB	LOOPIC	LOOPID	UNITS
SG PRESS	1004 55				ONTID
S/G NR LEVEL	1094.57	1094.56		1094.84	PSIG
S/G WR LEVEL	56.22	46.11		42.59	PC
S/G STM FL	0.00	56.86	56.36	55.76	PC
S/G FEED FL	0.00	0.00	18.53	19.52	KBH
GENERATOR OUTPUT	0.00	MW	0.00 COND PRESS	0.00	KBH
CST LEVEL	86.17	PC	COND FRESS	0.00	INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917		GPM			
SI FLW TRAIN A	0.00	GPM	CNMT PRESS CNMT TEMP	0.10	PSIG
SI FLW TRAIN B	0.00	GPM	CNMT HYDROGEN	108.38	DEGF
RHR FLW TRAIN A	0.00	GPM	RECIRC SUMP LVL	0.00	PC
RHR FLW TRAIN B	0.00	GPM	CNMT FLW WTR LVL	19.72	INCHES
CS FLOW TRAIN A	0.00	GPM	CHARTER WIK TAT	0.00	INCHES
CST FLOW TRAIN B	0.00	GPM			
RWST LEVEL	93.59	PC			

CONTROL ROOM MESSAGE CR-13

TIME : 0900 - 0905 (T+090 - T+095)

ISSUED TO : UNIT 1 NSO

PREREQUISITE : CONTAINMENT LEAK HAS STARTED

MESSAGE

The following Control Room Alarm(s) have been received :

Unit 1

RX CAVITY SUMP FLOW HIGH (1-01-A2) CONTAINMENT FLOOR DRAINS FLOW HIGH (1-01-A1) CONTAINMENT VENT ISOLATION (1-05-C7) CONTAINMENT INTERNAL PRESSURE HIGH (0-33-D6) CHARGING LINE FLOW HIGH (1-09-D3)

CONTROLLER NOTES : 1.

- . The 1-01-A1 (Containment Floor Drains) alarm will clear and come in again about 3-5 minutes after being cleared.
- IF THE OPERATOR checks for sump flow : The Reactor Cavity Sump Flow Chart Recorder (located on the back panel) is indicating flow greater than normal (normal = zero gpm) and flow appears to be increasing.

CONTROL ROOM MESSAGE CR-14

TIME : 0900 - 1059 (T+090 - T+209)

ISSUED TO : UNIT 1 NSO

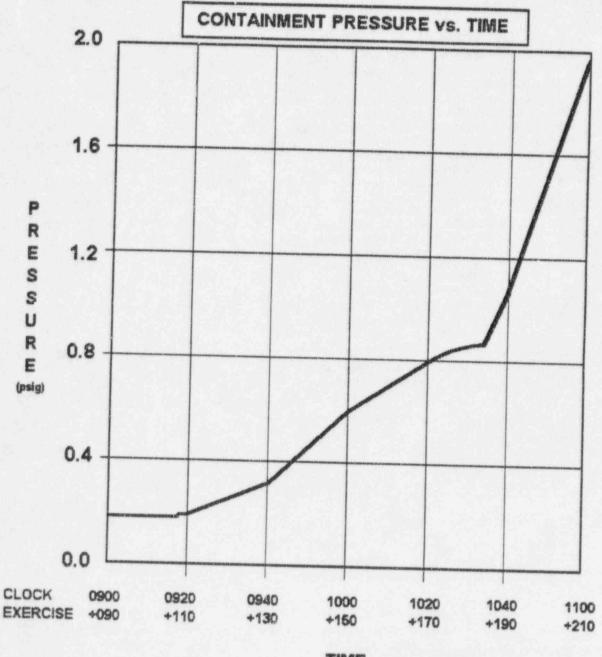
PREREQUISITE : CONTAINMENT LEAK IS IN PROGRESS

MESSAGE

ISSUE the following information VERBALLY :

Use the attached graph to provide information to participants about containment pressure.

CONTROL ROOM #14



TIME

K: CTROI NOVEXERCISE PRS000.BMP

TREND	10 MIN X24	HIGH RAN	GE CONTAINMENT	11-15-9	5 09:	00:00		
NAME	TYPE	CHANNEL ID	DESCRIPTION		VAL	LIF	UNITS	UNITS
4AS120	DHRM	ARM-1RE-AR020	HI RNG CNTMT 426	1AR020	2.89		UC/ML	R/HR
2.89E+0	GGGGG	6666666666666666	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG		v	v		
2.86E+0	GGGGG	GGGGGGGGGGGGGG	GGGGGGGGGGGGGGGG		v	v		
2.88E+0	GGGGG	GGGGGGGGGGGGGG	SOBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB		v	v		
2.86E+0	GGGGG	GGGGGGGGGGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG		v	v		
2.86E+0	GGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG		v	v		
2.85E+0	GGGGG	GGGGGGGGGGGGGGGG	GGGGGGGGGGGGGGGGG		v	v		
2.83E+0	GGGGG	GGGGGGGGGGGGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG		v	v		
2.81E+0	GGGGG	666666666666666	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG					
2.78E+0	GGGGGG	6666666666666666	Geogegegegegegegegegegegegegegegegegegeg		vv	V		
2.74E+0	GGGGGG	GGGGGGGGGGGGG	GGGGGGGGGGGGGGG			۷		
2.64E+0	GGGGGG	99999999999999999	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG		V	V		
2.59E+0	GGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	GGGGGGGGGGGGGGGG		V	V		
1.37E+0	666666	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	CCCCCCCCCCC		V	۷		
1.37E+0	GGGGGG	666666666666666666666666666666666666666	GGGGGGGGGGGGG		V	V		
1.37E+0	GGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	CCCCCCCCC		V	V		
1.37E+0	GGGGGG	Geeeeeeeeeee	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG		V	V		
1.37E+0	GGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	Geococccc		v	V		
1.37E+0	GGGGGG	Geeeeeeeeeee	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG		V	vv		
1.37E+0	GGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	GGGGGGGGGGGG		V			
1.37E+0	GGGGGG	GGGGGGGGGGGGGGG	GGGGGGGGGGGG		v	×		
1.37E+0	GGGGGGG	GGGGGGGGGGGGGGGG	6666666666					
1.37E+0	GGGGGG	GGGGGGGGGGGGGGGGG	000000000000000000000000000000000000000		vv	v		
1.37E+0	GGGGGG	GGGGGGGGGGGGGGGGG	GGGGGGGGGGGG			V		
1.37E+0	GGGGGG	GEGEGEGEGEGEGE	GGGGGGGGGGGG		v	v		
					v	v		

RM-11 POINT TREND CONTAINMENT RADIATION 0900 (T+090)

K:\BYRON95\EXERCISE\RM0900.8MP

<<< *** THIS IS AN EXERCISE *** >>>

Time =	0900 (90)					PLANT STATUS-	1
PRIMARY	•	VALUE	UNITS	PRIMARY	VALUE	UNITS	
Rx POWE	IR	0.00	PC	PRT LEVEL	74.71	PC	
AUCT HI	TAVE	558 15	DEGF	PRT PRESSURE	0.00	PSIG	
		-99.99	DEGF	VCT LEVEL	0.00	PC	
	B COOLING		DEGF	CHARGING FLOW LETDOWN FLOW	83.80	GPM	
PRZR LE	VEL	0.00	PC	RVLIS-HEAD	69.29	GPM	
PRZR PR	ESSURE 2	239.88	PSIG	RVLIS-PLENUM	100.00		
RCS WR	PRESSURE 2	247.57	PSIG	NVDIO-ELENUM	100.00	PC	
W.R. RC	S TEMP	LOOPIA	LOOPIB	LOOPIC			
			2002 20	TOOLIC	LOOPID	UNITS	
HOT LEG		558.36	558.36	558.36	660 45	DECE	
COLD LE	G:	557.93	557.91	557.94	558.42 557.96	DEGF	
TAVE :		558.11	558.10		558.15	DEGF	
				550.11	558.15	DEGF	
SECONDA	RY	LOOPLA	LOOPIB	LOOPIC	LOOPID	UNITS	
SG PRES	8	1094.26	1004 20				
S/G NR		47.34				PSIG	
S/G WR		57.24	49.82	47.69	46.37	PC	
S/G STM		0.00	58.02		56.95	PC	
S/G FEEL		0.00	0.00	the state of	21.34	KBH	
	OR OUTPUT	0.00	MW	0.00	0.00	KBH	
CST LEVE		85.39	PC	COND PRESS	0.00	INHGA	
ECCS		VALUE	UNITS	COMPA TAB COM			
		T T SAF V SU	ONLID	CONTAINMENT	VALUE	UNITS	
CV FLIFI			GPM	CNMT PRESS	0.10		
SI FLW T	RAIN A	0.00	GPM	CNMT TEMP	0.10	PSIG	
SI FLW T	RAIN B	0.00	GPM	CNMT HYDROGEN	108.39	DEGF	
RHR FLW	TRAIN A	0.00	GPM	RECIRC SUMP LVL	0.00	PC	
RHR FLW	TRAIN B	0.00	GPM	CNMT FLW WTR LVL		INCHES	
CS FLOW	TRAIN A	0.00	GPM	CHAIL FIN WIR LVL	0.00	INCHES	
CST FLOW	TRAIN B	0.00	GPM				
RWST LEV	EL	93.59	PC				

10

CONTROL ROOM MESSAGE CR-15

TIME : 0905 (T+095)

ISSUED TO : UNIT 1 NSO

PREREQUISITE :

INIT I NSO

CONTAINMENT LEAK IS IN PROGRESS

MESSAGE

ISSUE the following alarm has been received :

Unit 1

U1 CONTAINMENT VENT ISOLATION (1-05-C7)

Time = 0910 (100))				PLANT STATUS-1
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	
Rx POWER	0.00	PC	PRT LEVEL	74.71	PC
AUCT HI TAVE AVG 10HI CETS CORE SUB COOLING	-99.99	DEGF DEGF DEGF	PRT PRESSURE VCT LEVEL CHARGING FLOW LETDOWN FLOW	0.00	PSIG PC GPM
PRZR LEVEL PRZR PRESSURE RCS WR PRESSURE	2238.83	PC PSIG PSIG	RVLIS-HEAD RVLIS-PLENUM	100.00	PC
	LOOPIA	LOOPIB	LOOPIC	LOOPID	UNITS
HOT LEG: COLD LEG: TAVE:	558.46 558.05 558.22	558.03	558.46 558.05 558.22	558.52 558.07 558.26	DEGF DEGF DEGF
SECONDARY	LOOPLA	LOOPIB	LOOPIC	LOOP1D	UNITS
SG PRESS S/G NR LEVEL S/G WR LEVEL S/G STM FL S/G FEED FL GENERATOR OUTPUT CST LEVEL	0 00	1095.50 53.70 59.24 18.57 0.00 MW PC	50.97	1095.79 50.29 58.16 20.13 0.00 0.00	PSIG PC PC
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
SI FLW TRAIN B RHR FLW TRAIN A RHR FLW TRAIN B CS FLOW TRAIN A	0.00 0.00 0.00 0.00 0.00 93.59	GPM GPM GPM GPM GPM GPM PC	CNMT PRESS CNMT TEMP CNMT HYDROGEN RECIRC SUMP LVL CNMT FLW WTR LVL	0.15	PSIG DEGF PC INCHES INCHES

<<< *** THIS IS AN EXERCISE *** >>>

CONTROL ROOM MESSAGE CR-16

TIME : 0918 - 0920 (T+108 - T+110)

ISSUED TO : UNIT 1 NSO

PREREQUISITE : CONTAINMENT LEAK IS IN PROGRESS

MESSAGE

The following Control Room Alarm(s) have been received :

Unit 1

VCT LEVEL LOW (1-09-A2) PZR PRESSURE LOW - SI RX TRIP (1-11-C1) PZR PRESS CH-458 LOW (1-12-B1) PZR PRESS CH-455 / CH-458 LOW (1-12-B1) CONTAINMENT PHASE A ISOLATION TRAIN A/B (1-05-B7)

TREND	10 MIN X24	HIGH RAN	GE CONTAINMENT	11.15.8	5 09:2	10:45			
NAME	TYPE	CHANNEL ID	DESCRIPTIO	N	VAL	UF	UNITS	UNITS	
4AS120	DHRM	ARM-IRE-AR020	HI RNG CNTINT 426		6.70		UC/ML	R/HR	
6.70E+0	GGGGGG	666666666666666666666666666666666666666		GEGEG	v	v			
5.89E+0	GGGGGG	Geeeeeeeeeeeeee	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	GGGGG	v	v			
2.97E+0	GGGGGG	Gegegegegege	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	G	v	v			
2.89E+0	GGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	Geeeeeeeeeeeee		V	v			
2.68E+0	GGGGGG	GGGGGGGGGGGGGGGG	GESGEGEGEGEGEGEGEGEGEGEGEGEGEGEGEGEGEGE		v	v			
2.88E+0	GGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	Geeeeeeeeeee		v	v			
2.86E+0	GGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG		v	v			
2.86E+0	GEGEGE	GGGGGGGGGGGGGGG	GGGGGGGGGGGGGGGGG		v	v			
2.85E+0			GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG		v	v			
2.83E+0	GGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	GGGGGGGGGGGGGGGGGG		v	v			
2.81E+0	GGGGGG	GGGGGGGGGGGGGGG	GGGGGGGGGGGGGGGGGG		v	v			
2.782+0	GGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	GGGGGGGGGGGGGGG		v	v			
2.74E+0	GGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	GGGGGGGGGGGGGGG		v	v			
2.64E+0	GGGGGG	GGGGGGGGGGGGGGG	GGGGGGGGGGGGGGGG		v	v			
2.59E+0	GGGGGGG	GGGGGGGGGGGGGG	GGGGGGGGGGGGGGGG		v	v			
1.37E+0	GGGGGG	GGGGGGGGGGGGGG	GGGGGGGGGGG		v	v			
1.37E+0	GGGGGG	GEGEGEGEGEGEG	GGGGGGGGGG		v	v			
1.37E+0	GGGGGG	GGGGGGGGGGGGGG	GGGGGGGGGGG		v	v			
1.37E+0	GGGGGG	GGGGGGGGGGGGGG	GGGGGGGGGGG		v	v			
1.37E+0	GGGGGGG	GGGGGGGGGGGGG	GGGGGGGGGG		v	v			
1.37E+0	GEGEGE	GGGGGGGGGGGGG	GGGGGGGGGGG		v	v			
1.37E+0	GGGGGGG	GGGGGGGGGGGGGG	GGGGGGGGGGG		v	v			
1.37E+0	GGGGGGG	GGGGGGGGGGGGGG	GGGGGGGGGG		v	v			
1.37E+0	GGGGGGG	GGGGGGGGGGGGGG	GGGGGGGGGG		v	v			
1.37E+0	GGGGGGG	GGGGGGGGGGGGGGG	GGGGGGGGGG		v	v			

RM-11 POINT TREND CONTAINMENT RADIATION 0920 (T+110)

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Time = 0920 (110)

PLANT STATUS-12

PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
RX POWER AUCT HI TAVE	0.00	PC	PRT LEVEL PRT PRESSURE	0.00	PC PSIG
AVG 10HI CETS	0.00	DEGF	VCT LEVEL	0.00	PC
CORE SUB COOLING	0.00	DEGF	CHARGING FLOW LETDOWN FLOW	0.00	GPM
PRZR LEVEL	0.00	PC	RVLIS-HEAD	0.00	GPM
PRZR PRESSURE	0.00	PSIG	RVLIS-PLENUM	0.00	PC
RCS WR PRESSURE	0.00	PSIG		0.00	FC
W.R. RCS TEMP	LOOPLA	LOOPIB	LOOPIC	LOOPID	UNITS
HOT LEG:	0.00				
COLD LEG:	0.00	0.00	0.00	0.00	DEGF
TAVE :	0.00	0.00	0.00	0.00	DEGF
	0.00	0.00	0.00	0.00	DEGF
SECONDARY	LOOPLA	LOOPIB	LOOPIC	LOOPID	UNITS
SG PRESS	0.00			200120	ONTID
S/G NR LEVEL	0.00	0.00	0.00	0.00	PSIG
S/G WR LEVEL	0.00	0.00	0.00	0.00	PC
S/G STM FL	0.00	0.00	0.00	0.00	PC
SIG FEED FL	0.00	0.00	0.00	0.00	KBH
GENERATOR OUTPUT	0.00	MW	0.00 COND PRESS	0.00	KBH
CS1' LEVEL	0.00	PC	COND PRESS	0.00	INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917				TRUCE	UNITS
SI FLW TRAIN A	0 00	GPM	CNMT PRESS	0.00	PSIG
SI FLW TRAIN B	0.00	GPM	CNMT TEMP	0.00	DEGF
RHR FLW TRAIN A	0.00	GPM	CNMT HYDROGEN	0.00	PC
RHR FLW TRAIN B	0.00	GPM	RECIRC SUMP LVL	0.00	INCHES
CS FLOW TRAIN A	0.00	GPM GPM	CNMT FLW WTR LVL	0.00	INCHES
CST FLOW THAIN B	0.00	GPM			
RWST LEVEL	0.00	PC			

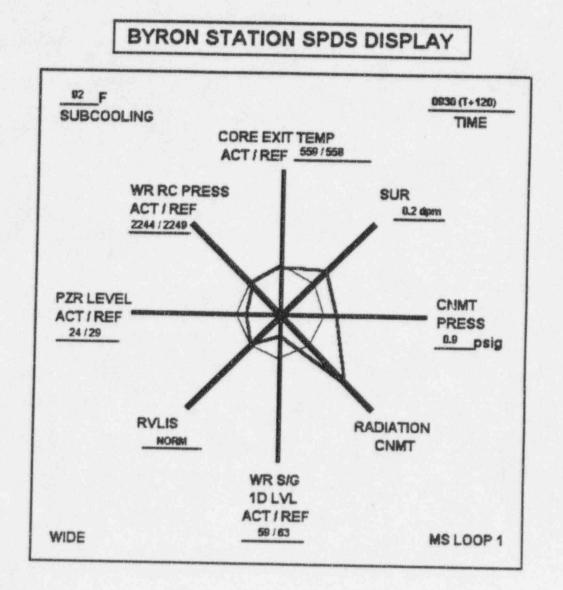
Time = 0930 (120)

PLANT STATUS-13

PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
RX POWER	0.00	PC	PRT LEVEL	0.00	PC
AUCT HI TAVE	0.00	DEGF	PRT PRESSURE VCT LEVEL	0.00	PSIG
AVG 10HI CETS	0.00	DEGF	CHARGING FLOW	0.00	PC
CORE SUB COOLING	0.00	DEGF	LETDOWN FLOW	0.00	GPM
PRZR LEVEL	0.00	PC	RVLIS-HEAD	0.00	GPM
PRZR PRESSURE	0.00	PSIG	RVLIS-PLENUM	0.00	PC
RCS WR PRESSURE	0.00	PSIG		0.00	PC
W.R. RCS TEMP	LOOPIA	LOOP1B	LOOPIC		
		200120	TOOLIC	LOOPID	UNITS
HOT LEG:	0.00	0.00	0.00	0.00	
COLD LEG:	0.00	0.00	0.00	0.00	DEGF
TAVE :	0.00	0.00	0.00	0.00	DEGF
				0.00	DEGF
SECONDARY	LOOPIA	LOOP1B			
	2001 11	TOOLID	LOOPIC	LOOPID	UNITS
SG PRESS	0.00	0.00	0.00	0.00	
S/G NR LEVEL	0.00	0.00	0.00	0.00	PSIG
S/G WR LEVEL	0.00	0.00	0.00	0.00	PC
S/G STM FL	0.00	0.00	0.00	0.00	PC
S/G FEED FL	0.00	0.00	0.00	0.00	KBH KBH
GENERATOR OUTPUT	0.00	MW	COND PRESS	0.00	INHGA
CST LEVEL	0.00	PC		0.00	INNGA
ECCS	VALUE	UNITS			
	* P 640 0 20	ONTID	CONTAINMENT	VALUE	UNITS
CV FL1F1-917		GPM	CNMT PRESS	0.00	
SI FLW TRAIN A	0.00	GPM	CNMT TEMP	0.00	PSIG
SI FLW TRAIN B	0.00	GPM	CNMT HYDROGEN	0.00	DEGF
RHR FLW TRAIN A	0.00	GPM	RECIRC SUMP LVL	0.00	PC
RHR FLW TRAIN B	0.00	GPM	CNMT FLW WTR LVL	0.00	INCHES
CS FLOW TRAIN A	0.00	GPM		0.00	INCHES
CST FLOW TRAIN B	0.00	GPM			
RWST LEVEL	0.00	PC			

<<< *** THIS IS AN EXERCISE *** >>>

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<<< *** THIS IS AN EXERCISE *** >>>

Time = 0940 (130)				PLANT STATUS-	14
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS	
RX POWER	0.00	PC	PRT LEVEL	74.71	PC	
AUCT HI TAVE	558.88	DEGF	PRT PRESSURE VCT LEVEL	0.04	PSIG	
AVG 10HI CETS	-99,99	DEGF	CHARGING FLOW	0.00	PC	
CORE SUB COOLING	-99.99	DEGF	LETDOWN FLOW	49.28	GPM	
PRZR LEVEL	0.00	PC	BUT TO HERE		GPM	
PRZR PRESSURE	2238.61	PSIG	RVLIS-HEAD	100.00	PC	
RCS WR PRESSURE	2246.21	PSIG	RVLIS-PLENUM	100.00	PC	
N D DCC MENT						
W.R. RCS TEMP	LOOPLA	LOOPIB	LOOP1C	LOOPID	UNITS	
HOT LEG:	559.09	559.07	559.09	EE0. 14		
COLD LEG:	558.72		558.72	559.14	DEGF	
TAVE :	558.82			558.76	DEGF	
		000100	220.02	558.89	DEGF	
SECONDARY	LOOPIA	LOOPIB	LOOPIC	LOOPID	UNITS	
SG PRESS	1000 70					
S/G NP TEVET	1098.79		**********	1099.46	PSIG	
S/G NR LEVEL S/G WR LEVEL S/G STM FL	61.03	65.74		62.33	PC	
S/C STM PT	61.45	62.91	61.38	61.83	PC	
S/G FEED FL	0.00	28.67		33.07	KBH	
GENERATOR OUTPUT	0.00	0.00	0.00	0.00	KBH	
COM I FUET	0.00	MW	COND PRESS	0.00	INHGA	
CST LEVEL	82.30	PC				
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS	
CV FL1F1-917		GPM	CIDE DDDDCC			
SI FLW TRAIN A	0.00	GPM	CNMT PRESS	0.55	PSIG	
SI FLW TRAIN B	0 00	GPM	CNMT TEMP	114.96	DEGF	
RHR FLW TRAIN A	0.00	GPM	CNMT HYDROGEN	0.00	PC	
RHR FLW TRAIN B	0.00		RECIRC SUMP LVL	30.92	INCHES	
CS FLOW TRAIN A	0.00	GPM	CNMT FLW WTR LVL	0.00	INCHES	
CST FLOW TRAIN B		GPM				
RWST LEVEL	0.00	GPM				
THEY DEVED	93.59	PC				

<<< *** THIS IS AN EXERCISE *** >>>

TTWE = 0320 (14)	,,				PLANT STATUS-15
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
Rx POWER	0.00	PC	PRT LEVEL	74.71	PC
AUCT HI TAVE AVG 10HI CETS	-99,99	DEGF	PRT PRESSURE VCT LEVEL CHARGING FLOW	0.08	PSIG PC
CORE SUB COOLING PRZR LEVEL	0.00	DEGF	LETDOWN FLOW RVLIS-HEAD	114.64	gpm gpm
PRZR FRESSURE RCS WR PRESSURE	2240.72 2247.98	PSIG PSIG	RVLIS-PLENUM	100.00	PC PC
W.R. RCS TEMP	LOOPLA	LOOPIB	LOOPIC	LOOPID	UNITS
HOT LEG: COLD LEG:	558.16 557.83	558.16	0.00 1 4 0	558.22	DEGF
TAVE :	557.96	557.82 557.95	557.83 557.96	557.86 558.00	DEGF DEGF
SECONDARY	LOOPLA	LOOPIB	LOOPIC	LOOPID	UNITS
SG PRESS S/G NR LEVEL S/G WR LEVEL	1093.94 55.35 59.64	1093.92 60.40 61.22	1093.92 55.37	1094.56 56.30	PSIG PC
S/G STM FL S/G FEED FL GENERATOR OUTPUT	0.00	36.29	59.65 37.20 0.00	59.92 39.51 0.00	РС КВН КВН
CST LEVEL	0.00 82.25	MW PC	COND PRESS	0.00	INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917 SI FLW TRAIN A SI FLW TRAIN B RHR FLW TRAIN A RHR FLW TRAIN B CS FLOW TRAIN A CCT FLOW TRAIN B RWST LEVEL	0.00 0.00 0.00 0.00 0.00 93.59	GPM GPM GPM GPM GPM GPM PC	CNMT PRESS CNMT TEMP CNMT HYDROGEN RECIRC SUMP LVL CNMT FLW WTR LVL	0.74 119.27 0.00 37.88 0.00	PSIG DEGF PC INCHES INCHES

×.

Time = 0950 (140)

	TREND	10 MIN X24	HIGH RAN	GE CONTAINMENT	11-15-	95 09:50:01					
	NAME	TYPE	CHANNEL ID	DESCRIPTIO	NN N	VALUE	UNITS	UNITS			
	4AS120	DHRM	ARM-IRE-AR020	HI RNG CKTNIT 426		5.49E+1	UC/ML	R/HR			
	5.49E+0	GGGGGG	666666666666666666666666666666666666666	666666666666666666666666666666666666666	GGGGGGGGG	GGGGGGG			v	v	
	2.77E+1	GGGGGG	000000000000000000000000000000000000000	666666666666666666666666666666666666666						-1	
	1.09E+1	GGGGGG	666666666666666666666666666666666666666	666666666666666666666666666666666666666		666					
	5.898+0	GGGGGG	666666666666666666666666666666666666666	Geeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee	CCCC				V	۷	
	2.97E+0	GGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	Geeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee	66666				V	V	
	2.89E+0	GGGGGG	6666666666666666	Gegegegegegegegegegegegegegegegegegegeg	G				v	V	
	2.88E+0	GGGGGG	666666666666666666666666666666666666666	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG					v	V	
	2.88E+0	GGGGGG	666666666666666666666666666666666666666	Gegegegegegegege					v	V	
	2.86E+0	GGGGGG	000000000000000000000000000000000000000	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG					v	۷	
	2.96E+0	GGGGGG	GGGGGGGGGGGGGGGG	Gegegegegegege					۷	V	
	2.85E+0	666666	666666666666666	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG					v	۷	
	2.83E+0	GGGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	GGGGGGGGGGGGGGGGGGG					v	۷	
	2.81E+0	GGGGGG	000000000000000000000000000000000000000	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG					v	۷	
	2.78E+0	GGGGGG	6666666666666	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG					v	۷	
	2.74E+0	GGGGGG	000000000000000000000000000000000000000	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG					V	۷	
	2.64E+0	GGGGGG	999999999999999	GGGGGGGGGGGGGGGGG					v	۷	
	2.59E+0	GGGGGG	GGGGGGGGGGGGGGGGG	GE					v	۷	
	1.37E+0	GGGGGG	GGGGGGGGGGGGGGGGG	00000000000000000000000000000000000000					V	V	
	1.37E+0	GGGGGGG	GGGGGGGGGGGGGG	GGGGGGGGGGGGG					V	v	
	1.37E+0	GGGGGGG	GGGGGGGGGGGGGGG	222222222222222222222222222222222222222					۷	۷	
	1.37E+0	GGGGGGG	GGGGGGGGGGGGGGG	GGGGGGGGGGG					v	V	
	1.37E+0	GGGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	GGGGGGGGGGG					V	۷	
	1.37E+0	GGGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	GGGGGGGGGGG					v	۷	
	1.37E+0	GGGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	GGGGGGGGGGG						۷	
	1.37E+0	GGGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	GGGGGGGGGGG					V	۷	
	1.37E+0	GGGGGGG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	GGGGGGGGGGG					V	۷	
1	1.37E+0	GEGEGEG	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	GGGGGGGGGG					V	۷	
				AND SECTION.					v	v	

RM-11 POINT TREND CONTAINMENT RADIATION 0950 (T+140)

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<<< *** THIS IS AN EXERCISE *** >>>

CONTROL ROOM MESSAGE CR-17

TIME : 1000 - 1005 (T+150 - T+155)

ISSUED TO : UNIT 1 NSO

PREREQUISITE : COI

CONTAINMENT LEAK HAS EXCEEDED CHARGING PUMP CAPACITY

MESSAGE

The following Control Room Alarm(s) have been received :

Unit 1

CONTAINMENT EQUIP DRAINS FLOW (1-01-A12) PZR LEVEL CONTROL DEV LOW (1-12-B4) PZR LEVEL LOW HEATERS OFF LETDOWN SECURED (1-12-A4) PRESSURIZER HEATER GROUP C BREAKER TRIP (1-12-A5) PZR HEATER SCR PHASE LOSS OR REVERSAL (1-12-C5) PZR HEATER SCR COOLING FAN FAILURE (1-12-D5) PZR PRESS CONTROL DEV LOW HEATERS ON (1-12-C1)

CONTROL ROOM MESSAGE CR-18

TIME : 1000 - 1100 (T+150 - T+210)

ISSUED TO : UNIT 1 NSO

PREREQUISITE : MANUAL SAFETY INJECTION HAS OCCURRED (PER PROCEDURE)

MESSAGE

The following Control Room Alarm(s) have been received :

	Unit 1	
	MANUAL RX TRIP (1-11-A1)	
	CONTAINMENT PHASE A ISOLATION TRAIN A/B (1-05-B7)	
	VALVE 1SI8801A/B NOT CLOSED	
	RCFC 1A/B/C HIGH SPEED BREAKER TRIP (1-03-A5)	
	CENTRIFUGAL CHARGING PUMP 18 ALITOSTART (1 00 PO)	
	ESSENTIAL SERVICE WATER PUMP 1B AUTOSTART (1-02-B1)	1.04
	SI FUMP 1A/18 AUTOSTART (1-05-B4)	
	RH PUMP 1A/1B AUTOSTART (1-06-A2)	1015
	FW PUMP 1B TRIP (1-16-B1)	
	DIESEL GENERATOR 1A TROUBLE (1-21-CB)	1.44
	DIESEL GENERATOR 1B TROUBLE (1-22-C8)	
	CC PUMP 0 (DIV 12) AUTOSTART (1-02-RA)	
	DIESEL GENERATOR 1A RUNNING UNI DADED (1.21 DO)	
Names of Street of Street	DIESEL GENERATOR 1B RUNNING UNLOADED (1-22-D9)	

CONTROLLER NOTE : 1.

Several of the panel alarms contained in this message may only be received if they have been reset since the reactor was manually tripped.

Time = 1000 (150))				PLANT STATUS	-1
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS	
Rx POWER	0.00	PC	PRT LEVEL	74.71	PC	
AUCT HI TAVE	557 96	DEGF	PRT PRESSURE	0.13	PSIG	
AVG 10HI CETS	-99 99	DEGF	VCT LEVEL	0.00	PC	
CORE SUB COOLING	-99 99	DEGF	CHARGING FLOW		GPM	
PRZR LEVEL	0 00	DO	LETDOWN FLOW	0.00		
PRZR PRESSURF	2235 27	DETE	RVLIS-HEAD	100.00		
RCS WR PRESSURE	2243.18	Pate	RVLIS-PLENUM	100.00	PC	
		FDIG				
W.R. RCS TEMP	LOOPLA	LOOPIB	Toopie			
		2001 20	LOOPIC	LOOP1D	UNITS	
HOT LEG:	558.09	558.09	550 00			
COLD LEG:	557.78	557.77			DEGF	
TAVE :	557.89	557.89		557.83	40° 400 10° 5.	
			557.09	557.96	DEGF	
SECONDARY	LOOPIA	LOOPIB	LOOPIO			
		200110	LOOPIC	LOOP1D	UNITS	
SG PRESS	1094.05	1094.06	1094.06	1004 51		
S/G NR LEVEL	52.99	58.43		1094.51	PSIG	
S/G WR LEVEL	59.04	60.76		59.29	PC	
S/G STM FL S/G FEED FL	0.00	26.36	26.29		PC	
S/G FEED FL	0.00	0.00		28.94	KBH	
GENERATOR OUTPUT	0.00	MW	COND PRESS	0.00	KBH	
CST LEVEL	81.95	PC	COND FRESS	0.00	INHGA	
ECCS	VALUE	UNITS	CONTAINMENT			
			CONTRACTOR	VALUE	UNITS	
CV FL1F1-917		GPM	CNMT PRESS			
SI FLW TRAIN A	0.00	GPM	CNMT TEMP	1.00	PSIG	
SI FLW TRAIN B	0.00	GPM	CNMT HYDROGEN	123.13	DEGF	
RHR FLW TRAIN A	0.00	GPM	RECIRC SUMP LVL	0.00	PC	
RHR FLW TRAIN B	0.00	GPM	CHERT SUMP LVL	22.53	INCHES	
CS FLOW TRAIN A	0.00	GPM	CNMT FLW WTR LVL	0.00	INCHES	
CST FLOW TRAIN B	0.00	GPM				
RWST LEVEL	93.59	PC				

BYRON 1995 GSEP EXERCISE NOVEMBER 15, 1995

IN PLANT EQUIPMENT AVAILABILITY

TIME :

1000 (T+150)

UNIT 1

Pump Type	A	В	C	D	Other
Reactor Coolant Pumps	R	R	R	R	Contraction of Automatics and Automatics
RCFC	RS	RS	RS	RS	
CV Pumps	R	R			PDP - OOS
SI Pumps	R	R			101-005
RH Pumps	DMG	R			
CS Pumps	AV	AV			
CC Pumps	R	oos			0 - R
Aux Feed Pumps	R	B			0.4

Reactor Systems	Status	Electrical Equipment	Status
Rx Trip Breakers	A - CLOSED B - CLOSED	SATs	142-1 ENG 142-2 ENG
Rod Positions	All Rods In	UATS	141-1 AV / DE 141-2 AV / DE
Primary PORVs	CLOSED	6.9 kV Busses	156 ENG 157 ENG 158 ENG 159 ENG
Secondary PORVs	CLOSED	4 kV Busses	141 ENG 142 ENG 143 ENG 144 ENG
Primary Safeties	CLOSED	125V AC Instrument	111 ENG 112 ENG 113 ENG 114 ENG
Secondary Safeties	CLOSED	120V DC Busses	111 ENG 112 ENG 113 ENG 114 ENG
Other Information : Unit 0 CC Pump is aligne Complete Containment Is	d to Bus 142	250V DC Busses	U1 ENG U2 ENG
		Diesel Generators	1A R UNLOADED 1B R UNLOADED

THIS IS AN EXERCISE

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					PLANT STATUS
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
RX POWER	0.00	PC	PRT LEVEL	76.03	PC
AUCT HI TAVE	558.03	DEGF	PRT PRESSURE	1.47	PSIG
AVG 10HI CETS	-99.99	DEGF	VCT LEVEL	0.00	PC
CORE SUB COOLIN	IG -99,99	DEGF	CHARGING FLOW	26.05	GPM
	0.00	PC	LETDOWN FLOW	0.00	GPM
PRZR PRESSURE	2227.58	PSIG	RVLIS-HEAD	100.00	PC
RCS WR PRESSURE	2236.19	PSIG	RVLIS-PLENUM	100.00	PC
W.R. RCS TEMP	LOOPIA	LOOP1B	LOOPIC	LOOPID	UNITS
HOT LEG:	558.12	558.13	558.11	EE0 10	
COLD LEG:	557.94	557.96		558.19	DEGF
TAVE :	557.97	557.97	557.97	558.02	DEGF
			557.57	556.02	DEGF
SECONDARY	LOOPLA	LOOPIB	LOOPIC	LOOP1D	UNITS
SG PRESS	1000 00				ONITO
S/G NR LEVEL	1096.07	1096.10	1096.10	1096.34	PSIG
S/G WR LEVEL	53.90	59.68	54.56	54.81	PC
S/G STM FL	59.80	61.64	60.01	60.01	PC
S/G FEED FL	0.00	14.00	15.22	17.09	KBH
GENERATOR OUTPUT	0.00	0.00	0.00	0.00	KBH
CST LEVEL		MW	COND PRESS	0.00	INHGA
	81.61	PC			
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917		GPM	CNMT PRESS		
SI FLW TRAIN A	0.00	GPM	CNMT TEMP	1.67	PSIG
SI FLW TRAIN B	0.00	GPM		135.04	DEGF
RHR FLW TRAIN A	0.00	GPM	CNMT HYDROGEN	0.00	PC
RHR FLW TRAIN B	0.00	GPM	RECIRC SUMP LVL		INCHES
CS FLOW TRAIN A	0.00	GPM	CNMT FLW WTR LVL	0.00	INCHES
CST FLOW TRAIN B	0.00	GPM			
RWST LEVEL	93.03	PC			

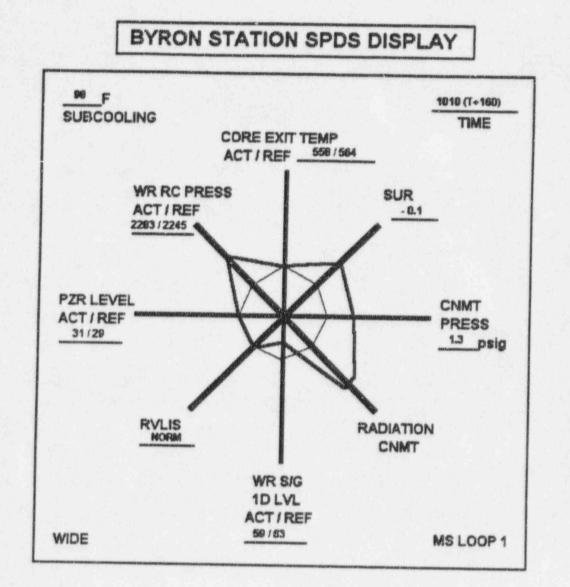
PLANT STATUS-17

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Time = 1010 (160)

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KYBYRON95 EXERCISE SPDS 1010.BMP

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TREN	ID 10 MIN X24	HIGH RANG	E CONTAINMENT	11-15-95	10:10:50			
NAM 4AS12		CHANNEL ID ARM-1RE-ARII20	DESCRIPTION HI RNG CNTNT 426',	ARD20	VALUE	UNITS UC/ML	UNITS R/HR	

1.11E+2	000000000000000000000000000000000000000	v	v
1.04E+2	666666666666666666666666666666666666666		
7.04E+1	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	V
2.77E+1	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	v
1.09E+1	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	v
5.89E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	v
2.97E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	v
2.99E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	v
	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	v
2.88E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	v
2.88E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	v
2.96E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG		
2.86E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	V	V
2.05E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	V	v
2.83E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	v
2.81E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	v
2.78E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	
2.74E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	V
2.64E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	v
2.59E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	V
1.37E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	V	V
1.37E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	Ŷ
1.37E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	V
1.37E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	V
1.37E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	V
1.37E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	V
1.37E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	v
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RW-11 POINT TREND CONTAINMENT RADIATION 1010 (T+16D)

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Time = 1020 (170))				PLANT STATUS-18
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
Rx POWER	0.00	PC	PRT LEVEL	76.44	PC
AUCT HI TAVE	557.88		PRT PRESSURE	2.05	PSIG
AVG 10HI CETS		DEGF	VCT LEVEL	0.00	PC
CORE SUB COOLING	-99.99	DEGF	CHARGING FLOW	153.50	GPM
PRZR LEVEL		DEGF	LETDOWN FLOW	0.00	GPM
PRZR PRESSURE	0.00	PC	RVLIS-HEAD	100.00	PC
	2233.65	PSIG	RVLIS-PLENUM	100.00	PC
RCS WR PRESSURE	2241.55	PSIG			
W.R. RCS TEMP	LOOPIA	LOOPIB	100010		
		2001 20	LOOP1C	LOOP1D	UNITS
HOT LEG:	557.98	557.98	557.98		
COLD LEG:	557.72	557.71		558.07	DEGF
TAVE :	557.81	557.81	557.71	557.77	DEGF
		557.61	557.81	557.88	DEGF
SECONDARY	LOOPLA	LOOPIB	LOOPIC	LOOPID	
			TOOLIC	LOOP1D	UNITS
SG PRESS	1093.54	1093.53	1093.53	1093.97	
S/G NR LEVEL	53.26	59.70	54.37		PSIG
S/G WR LEVEL	60.18	62.21	60.54	54.06	PC
S/G STM FL	0.00	26.09		60.42	PC
S/G FEED FL	0.00	0.00	26.14	28.79	KBH
GENERATOR OUTPUT	0.00	MW	0.00	0.00	KBH
CST LEVEL	81.28	PC	COND PRESS	0.00	INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	
				VALUE	UNITS
CV FL1F1-917		GPM	CNMT PRESS	2.16	
SI FLW TRAIN A	0.00	GPM	CNMT TEMP		PSIG
SI FLW TRAIN B	0.00	GPM	CNMT HYDROGEN	145.85	DEGF
RHR FLW TRAIN A	0.00	GPM	RECIRC SUMP LVL	0.00	PC
RHR FLW TRAIN B	0.00	GPM	CNMT FLW WTR LVL	82.11	INCHES
CS FLOW TRAIN A	0.00	GPM	CHAIL FIM WIR LVL	0.00	INCHES
CST FLOW TRAIN B	0.00	GPM			
RWST LEVEL	92.78	PC			

					PLANT STATUS-:
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
Rx POWER	0.00	PC	PRT LEVEL	76.44	PC
AUCT HI TAVE	554 52	DEGF	PRT PRESSURE	2.19	
AVG 10HT CETS	-90 00		VCT LEVEL	0.00	PC
CORE SUB COOLING	-99,99	DEGF	CHARGING FLOW LETDOWN FLOW RVLIS-HEAD RVLIS-PLENUM	20.22	GPM
PRZR LEVEL	0.00	PC	BUT TO WEND	0.00	
PRZR PRESSURE	2188.26	PSTG	AVLIS-MEAD	100.00	PC
RCS WR PRESSURE	2215.75	PSIG	KATT2-STENOW	100.00	PC
W.R. RCS TEMP	LOOPIA	LOOP1B	Toople		
			200120	LOOPID	UNITS
HOT LEG:	551.80	551.85	551.85 551.34 554.52		
COLD LEG:	551.39	551 30	331.85	554.51	DEGF
TAVE :	554.51	554.51	554 50	553.54	
		001.01	224.22	554.07	DEGF
SECONDARY	LOOPLA	LOOPIB	LOOPIC	LOOPID	UNITS
SC PRESS	1051 05				ONLLD
SG PRESS S/G NR LEVEL	1051.85 53.29		1051.48	1051.97	PSIG
S/G WR LEVET	53.29	60.06	54.80	49.81	PC
S/G WR LEVEL S/G STM FL	0.00	63.11 2.57	DI 45	60 20	PC
S/G FEED FL	0.00	2.57	2.21	104.00	KBH
GENERATOR OUTPUT	0.00	0.00	0.00	0.00	KBH
CST LEVEL	80.95	MW	2.21 0.00 COND PRESS	0.00	INHGA
	00.95	PC			
ECCS	VALUE	UNITS	CONTAINMENT		
		011410	CONTAINMENT	VALUE	UNITS
CV FL1F1-917		GPM	CNMT PRESS		
SI FLW TRAIN A	0.00	GPM		2.45	PSIG
SI FLW TRAIN R	0 00	GPM	CNMT HYDROGEN	151.65	DEGF
RHR FLW TRAIN A	0.00	GPM	RECIRC SUMP LVL		PC
RHR FLW TRAIN B	0.00	GPM	CNMT FLW WTR LVL	-99.99	
CS FLOW TRAIN A	0.00	GPM	CHAIL FOR WIN TAT	0.00	INCHES
CST FLOW TRAIN B	0.00	GPM			
RWST LEVEL	92.40	PC			

PLANT STATUS-19

<<< *** THIS IS AN EXERCISE *** >>>

Time = 1030 (180)

BYRON 1995 GSEP EXERCISE NOVEMBER 15, 1995

IN PLANT EQUIPMENT AVAILABILITY

TIME :

1030 (T+180)

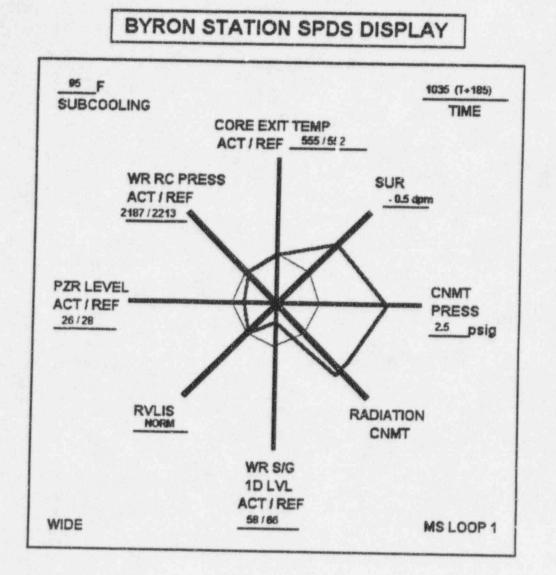
UNIT 1

Pump Type	A	В	C	D	Other
Reactor Coolant Pumps	AV	AV	AV	R	AND DESCRIPTION OF THE OWNER OF T
RCFC	RS	RS	RS	RS	
CV Pumps	R	R			PDP - OOS
SI Pumps	R	R			
RH Pumps	DMG	AV			
CS Pumps	AV	AV			and south to another the second s
CC Pumps	R	oos			0 - R
Aux Feed Pumps	R	B			<u><u>v-n</u></u>

Reactor Systems	Status	Electrical Equipment	Status
Rx Trip Breakers	A - CLOSED B - CLOSED	SATs	142-1 ENG 142-2 ENG
Rod Positions	All Rods Full In	UATS	141-1 AV / DE 141-2 AV / DE
Primary PORVs	CLOSED	6.9 kV Busses	156 ENG 157 ENG 158 ENG 159 ENG
Secondary PORVs	CLOSED	4 kV Busses	141 ENG 142 ENG 143 ENG 144 ENG
Primary Safeties	CLOSED	125V AC Instrument	111 ENG 112 ENG 113 ENG 114 ENG
Secondary Safeties	CLOSED	120V DC Busses	111 ENG 112 ENG 113 ENG 114 ENG
Other Information : Unit 0 CC Pump is aligned to Bus 142 Containment Isolation		250V DC Busses	U1 ENG U2 ENG
Diesels Secured from C.F	۹.	Diesel Generators	1A AV 1B AV

THIS IS AN EXERCISE

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K: BYRON95 EXERCISE SPDS 1035.8MP

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Concession of the local division of the loca

Time = 1040 (190))				PLANT STATUS-20	
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS	
Rx POWER	0.00	PC	PRT LEVEL	76.44	PC	
BILOW ICT MALM			PRT PRESSURE	2.31	PSIG	
AUCT KI TAVE	547.96	DEGF	VCT LEVEL	0.00	PC	
AVG 10HI CETS	-99.99		CHARGING FLOW	30 49	GPM	
CORE SUB COOLING	-99.99	DEGF	LETDOWN FLOW	0.00	GPM	
PRER LEVEL PRER PRESSURE	0.00	PC	RVLIS-HEAD	0.00	PC	
RCS WR PRESSURE 2	268.49	PSIG PSIG	LETDOWN FLOW RVLIS-HEAD RVLIS-PLENUM	100.00	PC	
W.R. RCS TEMP	LOOPLA	LOOPIB	LOOPIC			
			DOOFIC	LOOPID	UNITS	
HOT LEG: COLD LEG:	540.91	540.93	540.94	544 50		
COLD LEG:	541.05 547.93	541.05	541.04	544.30	DEGF	
TAVE:	547.93	547.94	547.96	544.52	DEGF	
			547.50	344.32	DEGF	
SECONDARY	LOOPLA	LOOPIB				
	DOOLTH	LOOPID	LOOPIC	LOOP1D	UNITS	
SG PRESS	980.67	980.88	980.88	000 05		
S/G NR LEVEL	54.42	61.52	56 35	36.69	PSIG	
S/G WR LEVEL	62.16	64.44	62.78	56.39	PC PC	
S/G STM FL	0.00	64.44 0.00	0.00	22.46		
S/G FEED FL	0.00	0.00	0.00	0.00	KBH	
GENERATOR OUTPUT	0.00	MW	COND PRESS	0.00	KBH	
CST LEVEL	80.61	PC		0.00	INHGA	
ECCS	VALUE	UNITS	CONTAINMENT	175 7 190		
and advance as a set of			CONTRAIN.	VALUE	UNITS	
CV FL1F1-917		GPM	CNMT PRESS	2.56	PSIG	
SI FLW TRAIN A		GPM	CNMT TEMP	154.81	DEGF	
SI FLW TRAIN B	0.00	GPM	CNMT HYDROGEN	0.00	PC	
RHR FLW TRAIN A		GPM	RECIRC SUMP LVL	-99.99		
RHR FLW TRAIN B	0.00	GPM	CNMT FLW WTR LVL	0.00	INCHES	
CS FLOW TRAIN A		GPM		0.00	THOLED	
CST FLOW TRAIN B	0.00	GPM				
RWST LEVEL	91.75	PC				

Time = 1050 (200))				PLANT STATUS-21
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
RX POWER	0.00	PC	PRT LEVEL	76.44	PC
AUCT HI TAVE	542 30	DEGF	PRT PRESSURE	2.42	PSIG
AVG . HI CETS	-99.99	DEGF	VCT LEVEL	0.00	
COPE SUB COOLING	-99,99	DEGF	CHARGING FLOW	205.52	
PRZR LEVEL	0.00	PC	LETDOWN FLOW RVLIS-HEAD	0.00	GPM
	2066.50	PSIG	RVLIS-PLENUM	100.00	PC
RCS WR PRESSURE	2094.30	PSIG	NV 10 - FLENDE	100.00	PC
W.R. RCS TEMP	LOOPLA	LOOPIB	Toople		
		DOOFTD	LOOPIC	LOOPID	UNITS
HOT LEG:	535.03	535.01	534.98	538.27	
COLD LEG:	535.34	535.39	535.34	537.44	DEGF
TAVE :	540.58	542.44	542.43	537.89	DEGF
				557.05	DEGE
SECONDARY	LOOPIA	LOOPIB	LOOPIC	LOOPID	
				TOOLTD	UNITS
SG PRESS S/G NR LEVEL	920.96	920.65	920.65	921.23	PSIG
S/G WR LEVEL	56.65	62.88	57.72	27.11	PC
S/G STM FL	63.34	65.23	63.61	53.70	PC
S/G FEED FL	0.00	17.16	16.73	92.49	КВН
GENERATOR OUTPUT	0.00	0.00	0.00	0.00	КВН
CST LEVEL	80.28	MW PC	COND PRESS	0.00	INHGA
	00.20	PC			
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917		GPM	CNMT PRESS	2.61	
SI FLW TRAIN A	0.00	GPM	CNMT TEMP	156.78	PSIG DEGF
SI FLW TRAIN B	0.00	GPM	CNMT HYDROGEN	0.00	PC
RHR FLW TRAIN A	0.00	GPM	RECIRC SUMP LVL	-99.99	INCHES
RHR FLW TRAIN B	0.00	GPM	CNMT FLW WTR LVL	0.00	INCHES
CS FLOW TRAIN A	0.00	GPM		0100	LINCINED
CST FLOW TRAIN B RWST LEVEL	0.00	GPM			
THEY TEVEL	91.43	PC			

CONTROL ROOM MESSAGE CR-19

TIME : 1100 - 1300 (T+210 - T+330)

ISSUED TO : UNIT 1 NSO

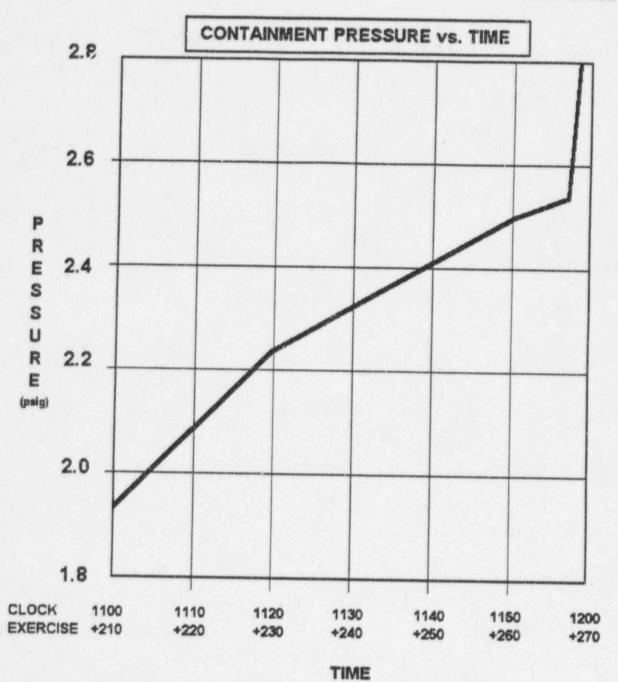
PREREQUISITE : CONTAINMENT LEAK IN PROGRESS, CONTAINMENT FAILURE OCCURS

MESSAGE

ISSUE the following information VERBALLY :

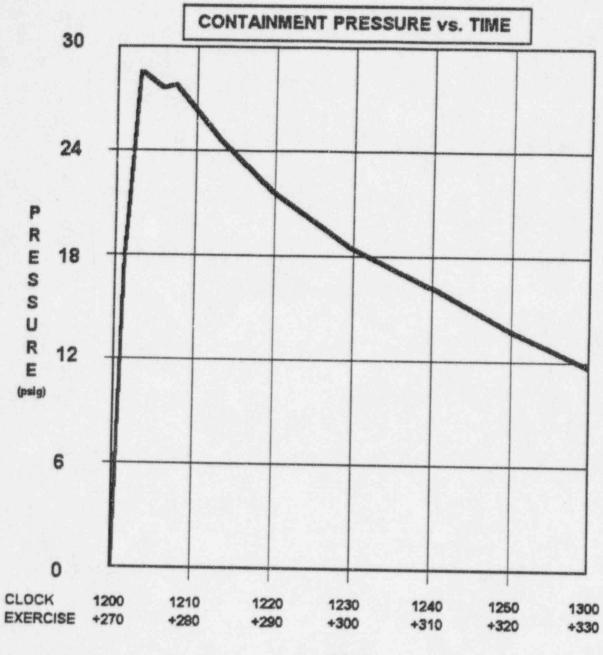
Use the attached graph to provide information to participants about containment pressure.

CONTROL ROOM #19



K:\BYRON95\EXERCISE\PRS1100.BMP

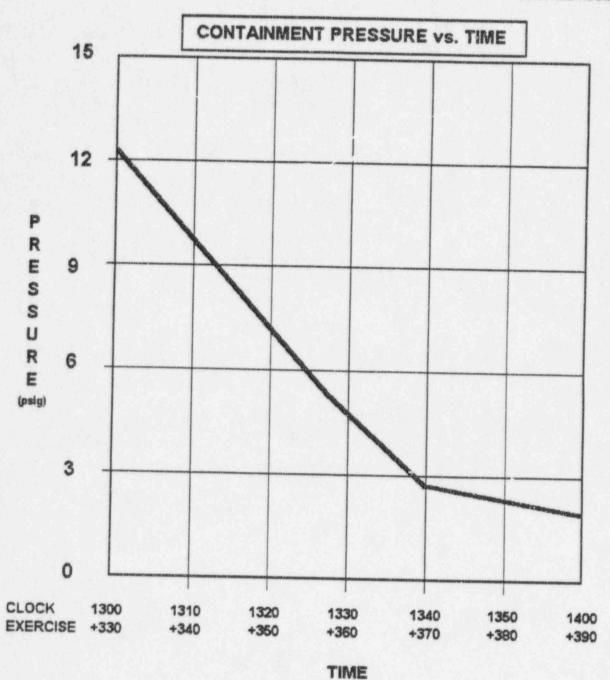
CONTROL ROOM #198



TIME

K:\BYRON95\EXERCISE\PRS1200.BMP

CONTROL ROOM #19C



K:\BYRON95\EXERCISE\PRS1300.BMP

Time = 1100 (21	0)				PLANT STATUS-22	
PRIMARY	VALUE	UNITS	PRIMARY	VALUE		
RX POWER	0.00	PC	PRT LEVEL	76.44	PC	
AUCT HI TAVE AVG 10HI CETS CORE SUB COOLING PRER LEVEL PRZR PRESSURE RCS WR PRESSURE	-99.99 G -99.99 0.00 2024.77	DEGF DEGF DEGF PC PSIG PSIG	PRT PRESSURE VCT LEVEL CHARGING FLOW LETDOWN FLOW RVLIS-HEAD RVLIS-PLENUM	2.51 0.00 294.68 0.00 100.00 100.00	PSIG PC GPM GPM PC	
W.R. RCS TEMP	LOOPIA	LOOPIB	LOOPIC	LOOPID	UNITS	
HOT LEG: COLD LEG: TAVE:	519.11 518.81 530.00	519.04 518.77 535.20	518.77	522.68 521.52 -99.99	DEGF DEGF DEGF	
SECONDARY	LOOPLA	LOOPIB	LOOPIC	LOOPID	UNITS	
SG PRESS S/G NR LEVEL S/G WR LEVEL S/G STM FL S/G FEED FL GENERATOR OUTPUT CST LEVEL	801.26 58.20 64.52 0.00 0.00 0.00 79.49	800.57 60.97 65.29 42.33 0.00 MW PC	800.57 55.86 63.72 41.63 0.00 COND PRESS	801.35 33.67 57.19 53.37 0.00 0.00	PSIG PC PC KBH KBH INHGA	
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS	
CV FL1F1-917 SI FLW TRAIN A SI FLW TRAIN B RHR FLW TRAIN A RHR FLW TRAIN B CS FLOW TRAIN A CST FLOW TRAIN B RWST LEVEL	0.00 0.00 0.00 0.00 0.00 0.00 90.84	GPM GPM GPM GPM GPM GPM PC	CNMT PRESS CNMT TEMP CNMT HYDROGEN RECIRC SUMP LVL CNMT FLW WTR LVL	2.58 157.41 0.00 -99.99 0.00	PSIG DEGF PC INCHES INCHES	

CB

BYRON 1995 GSEP EXERCISE NOVEMBER 15, 1995

IN PLANT EQUIPMENT AVAILABILITY

TIME :

1110 (T+220) UNIT 1

Pump Type	A	В	C	D	Other
Reactor Coolant Pumps	AV	AV	AV	R	CHANGE AND PROPERTY AND ADDRESS OF THE PARTY OF
RCFC	RS	DE	RS	DE	
CV Pumps	R	DE			PDP - OOS
SI Pumps	R	DE			
RH Pumps	DMG	DE			
CS Pumps	AV	DE			
CC Pumps	R	oos			0 - DE
Aux Feed Pumps	R	R			

Reactor Systems	Status	Electrical Equipment	Status
Rx Trip Breakers	A - CLOSED B - CLOSED	SATs	142-1 ENG 142-2 ENG
Rod Positions	All Rods Full In	UATS	141-1 AV / DE 141-2 AV / DE
Primary PORVs	CLOSED	6.3 kV Busses	156 ENG 157 ENG 158 ENG 159 ENG
Secondary PORVs	CLOSED	4 kV Bussed	141 ENG 142 DMG 143 ENG 144 ENG
Primary Safeties	CLOSED	125V AC Instrument	111 ENG 112 ENG 113 ENG 114 ENG
Secondary Safeties	CLOSED	120V DC Busses	111 ENG 112 ENG 113 ENG 114 ENG
Other Information : Unit 0 CC Pump is aligned to Bus 142 Containment Isolation		250V DC Busses	U1 ENG U2 ENG
		Diesel Generators	1A R 1B DMG

THIS IS AN EXERCISE

g \epexer\byron\equip wpf\7

CONTROL ROOM MESSAGE CR-20

TIME : 1110 - 1115 (T+220 - T+225)

ISSUED TO : UNIT 1 NSO

PREREQUISITE : ESF BUS 142 TRIP HAS OCCURRED

MESSAGE

ISSUE the following information VERBALLY :

Bus 142 has TRIPPED.

The 1B Diesel Generator has FAILED to start.

Control Room lighting has DIMMED significantly and the emergency lighting is ON.

CONTROL ROOM MESSAGE CR-21

TIME : 1110 - 1115 (T+220 - T+225)

ISSUED TO : UNIT 1 NSO

PREREQUISITE : B TRAIN ESF BUS 142 HAS TRIPPED ON OVERCURRENT ; 1B DIESEL GENERATOR HAS FAILED TO START

MESSAGE

The following Control Room Alarm(s) have been received :

	5%	14	1	
9		54		

BUS 142 SAT 142-2 FD BREAKER 1422 TRIP (1-22-A7) 125V DC BUS 112 GROUND (1-22-D6) 125V DC BATT CHGR 112 FAILURE (1-22-E8) BUS 142 VOLTAGE LOSS (1-22-C7) SI PUMP 1B TRIP (1-05-A4) RH PUMP 1B TRIP (1-06-A1) ESSENTIAL SERVICE WATER PUMP 1B TRIP (1-02-A1) DIESEL GENERATOR 1B RUNNING UNLOADED (1-22-D9)

CONTROL ROOM MESSAGE CR-22

TIME : 1110 - 1115 (T+220 - T+225)

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ISSUED TO : UNIT 1 NSO

PREREQUISITE : B TRAIN ESF BUS 142 HAS TRIPPED

MESSAGE

	PARTICIPANT ACTION(S)		RESULTS OR OBSERVATIONS		
Participant checks RM-11		Grids 1, 2 and 4 are flashing MAGENTA. (Grid 3 is colored GREEN).			
Participant	selects Grid 1.	The following monitors are colored MAGENTA			
4AA123 4AC323	(U1 Main Steamline @ R13) (U1 Main Steamline @ R20)	4AB223 4AD423			
Participant	selects Grid 2.	The following monitors are colored MAGE			
0PA233 0PA234 0PA237 0PA238 0PC333 0PC334	(C.R. Outside Air B-Part) (C.R. Outside Air B-Part) (C.R. Turbine Air B-Part) (C.R. Turbine Air B-Part) (C.R. Outside Air B-Iodine) (C.R. Outside Air B-Iodine)	0PB133 0PB134 0PB137 0PB138 0PC337 0PC338	(C.R. Outside Air B-Gas) (C.R. Outside Air B-Gas) (C.R. Turbine Air B-Gas) (C.R. Turbine Air B-Gas) (C.R. Turbine Air B-Iodine) (C.R. Turbine Air B-Iodine)		
Participant s	elects Grid 4.	The followin	g monitors are colored MAGENTA :		
3AS156 4AS112 4AS121 4AB224 4AB225	(FHB Incident, 426 El.) (U1 Containment FH Incident) (U1 Containment High Range) (U1 Steam Tunnel 377 El.) (U1 Pipe Pen. Aux Bldg 364 El.)	4AA124 4AA125 4AA126 4AA127 4AB226 4AB227	(U1 Steam Tunnel 377 El.) (U1 Pipe Pen. Aux Bidg 364 El.) (U1 Pipe Pen. Aux Bidg 383 El.) (U1 Pipe Pen. Aux Bidg 401 El.) (U1 Pipe Pen. Aux Bidg 383 El.) (U1 Pipe Pen. Aux Bidg 401 El.)		

Time = 1110 (220))			I	LANT STATUS-23
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	
RX POWER	0.00			VISUUE	UNITS
NA FUNDA	0.00	PC	PRT LEVEL	76.44	PC
AUCT HI TAVE	-99.99	DEGF	PRT PRESSURE	2.60	PSIG
AVG 10HI CETS	-99,99	DEGF	VCT LEVEL	0.00	PC
CORE SUB COOLING	-99.99	DEGF	CHARGING FLOW LETDOWN FLOW	320.39	GPM
PRZR LEVEL	0.00	PC	RVLIS-HEAD	0.00	GPM
PRZR PRESSURE	1932.08	PSTG	RVLIS-PLENUM	100.00	PC
RCS WR PRESSURE 1	1957.39	PSIG	KAPTO-LPENOW	100.00	PC
W.R. RCS TEMP	LOOPLA	LOOPIB	100010		
		TOOLTD	LOOPIC	LOOPID	UNITS
HOT LEG:	500.02	500.12	499.93	500 00	
COLD LEG:	499.83	499.84	499.83	503.62	DEGF
TAVE:	-99.99	-99.99	-99.99	502.53 -99.99	DEGF
			22.35	-99.99	DEGF
SECONDARY	Toopia				
	LOOPIA	LOOP1B	LOOP1C	LOOPID	UNITS
SG PRESS S/G NR LEVEL S/G WR LEVEL S/G STM FL	675.10	676.15	171		
S/G NR LEVEL	58.42	57.08	676.15	676.86	PSIG
S/G WR LEVEL	65.57	65.10	52.18	51.66	PC
S/G STM FL	0.00	36.32	63.57	63.64	PC
S/G FEED FL	0.00	0.00	35.34	46.77	KBH
GENERATOR OUTPUT	0.00	MW	W + V V	0.00	KBH
CST LEVEL	78.46	PC	COND PRESS	0.00	INHGA
ECCS	VALUE	INTERA			
	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917		GPM	CNMT PRESS		
SI FLW TRAIN A	0.00	GPM	CNMT TEMP	2.53	PSIG
SI FLW TRAIN B	0.00	GPM	CNMT HYDROGEN	156.82	DEGF
RHR FLW TRAIN A	0.00	GPM	RECIRC SUMP LVL	0.00	PC
RHR FLW TRAIN B	0.00	GPM	CNMT FLW WTR LVL	-99.99	INCHES
CS FLOW TRAIN A	0.00	GPM	SHIT FTM WIK TAT	0.00	INCHES
CST FLOW TRAIN B	0.00	GPM			
RWST LEVEL	90.19	PC			

Time = 1110 (220)

Area and Process Radiation Monitors Grid 1

TIME .

1110 (T+220)

RM-11 Code	Description	-	Value mR/h	Alarm Status
4AA122	U1 Main Steam Line	Rm R13	0.094	Normal
5AA122	U2 Main Steam Line	Rm R41	0,108	Normal
4AA123	U1 Main Steam Line	Rm R13	DE-ENG	Normal
5AA123	U2 Main Steam Line	Rm R41	0.077	Normal
4AB222	U1 Main Steam Line	Rm R20	0.122	Normal
5AB222	U2 Main Steam Line	Rm R34	0.095	Normal
4AB223	U1 Main Steam Line	Rm R20	DE-ENG	Normal
5AB223	U2 Main Steam Line	Rm R34	0.105	Normal
4AC322	U1 Main Steam Line	Rm R20	0.131	Normal
5AC322	U2 Main Steam Line	Rm R34	0.085	
4AC323	U1 Main Steam Line	Rm R20	DE-ENG	Normal
5AC323	U2 Main Steam Line	Rm R34	0.093	Normal
AD422	U1 Main Steam Line	Rm R13	0.333	Normal
5AD422	U2 Main Steam Line	Rm R41		Normal
AD423	U1 Main Steam Line	Rm R13	0.173	Normal
5AD423	U2 Main Steam Line	Rm R13	DE-ENG 0.11	Normal

AREA RADIATION MONITORS , GRID 1

PROCESS RADIATION MONITORS , GRID 1

RM-11 Code	Description	Value uCi/cc	Alarm Status
0PS101	Liq. Radwate Effluent	1.00E-08	Normal
0PS105	TB Fire & Oil Sump	8.90E-08	Normal
0PS106	RW Evap Conds. Return 0A	1.00E-08	
0PS107	RW Evap Conds. Return 0B	1.00E-08	
0PS108	RW Evap Conds. Return 0C	1.00E-08	Normal
0PS109	CC Heat Exchg 0 Water Outlet	4.48E-07	Normal
0PS110	Station Blowdown	ISOL	Normal
0PS116	Blowdown Afterfilter 0A Outlet	ISOL	Normal
0PS117	Blowdown Afterfilter 0B Outlet	ISOL	Normai
0PS118	Blowdown Afterfilter 0C Outlet	ISOL	Normal
0PS119	Blowdown Afterfilter 0D Outlet	ISOL	Normal
0PS141	Condensate Polisher Hi/Low Sumps	1.00E-09	Normal
1PS102	U1 RCFC Sx Water Outlet, 1A / 1C	7.81E-09	Normal
2PS102	U1 RCFC Sx Water Outlet. 2A / 2C	8.45E-08	
1PS103	U1 RCFC Sx Water Outlet. 1B / 1D	7.80E-09	Normal
2PS103	U1 RCFC Sx Water Outlet, 2B / 2D	1.11E-08	Normal
IPS106	U1 Gross Failed Fuel, Low Energy	ISOL	Normal
PS106	U2 Gross Failed uel, Low Energy	2.09E+00	Normal
PS206	U1 Gross Failed Fuel, High Energy	ISOL	Normal
PS206	U2 Gross Failed Fuel, High Energy	4.24E-02	Hi Alarm
PS107	U1 BTR Chiller Surge Tank Return		Normal
PS107	U2 BTR Chiller Surge Tank Return	1.00E-08 1.00E-08	Normal
PS108	U1 Steam Generator Blowdown	and the second	Normal
PS108	U2 Steam Generator Blowdown	ISOL	Normal
PS109	U1 CC Heat Exch Water Outlet 1	1.06E-06	Normal
PS109	U2 CC Heat Exch Water Outlet 2	1.34E-07	Normal
PS127	U1 SJAE Gland Steam Exhaust, Gas	2.43E-07	Normal
PS127	U2 SJAE Gland Steam Exhaust, Gas	1.00E-06	Normal
STATE STORE AT LOCATE STATE AND ADDRESS OF	Change Grand Greath Exhaust, Gas	1.06E-06	Normal

Rad Monitors in units of mR/h. Process Monitors are in units of uCi/cc.

Process Radiation Monitors Grid 2

TIME =

1110 (T+220)

PROCESS RADIATION MONITORS , GRID 2

RM-11 Code	Description	Description Ctl Rm Outside Air Intake A - Part		
0PA231				
0PB131	Ctl Rm Outside Air Intake	A - Gas	5E-14 2.68E-06	Normal Normal
0PC331	Ctl Rm Outside Air Intake	A - lodine	2.04E-14	Normal
0PA232	Ctl Rm Outside Air Intake	A - Gas	1.16E-12	Normal
0PB132	Ctl Rm Outside Air Intake	A - Part	2.76E-06	Normal
0PC332	Ctl Rm Outside Air Intake	A - lodine	3.67E-14	Normal
0PA233	Ctl Rm Outside Air Intake	B - Part	DE-ENG	Normal
0PB133	Ctl Rm Outside Air Intake	B - Gas	DE-ENG	Normal
0PC333	Ctl Rm Outside Air Intake	B - Iodine	DE-ENG	Normal
0PA234	Ctl Rm Outside Air Intake		DE-ENG	Normal
0PB134	Cti Rm Outside Air Intake	B - Gas	DE-ENG	Normal
0PC334	Ctl Rm Outside Air Intake	B - lodine	DE-ENG	Normal
0PA235	CR Turb Bldg Air Intake	A - Part	1.21E-13	Normal
DPB135	CR Turb Bldg Air Intake	A - Gas	2.24E-06	Normal
DPC335	CR Turb Bldg Air Intake	A - lodine	6.24E-15	Normal
PA236	CR Turb Bldg Air Intake	A - Part	3.23E-15	a service of the second second
PB136	CR Turb Bldg Air Intake	A - Gas	1.94E-06	Normal
PC336	CR Turb Bldg Air Intake	A - lodine	3.67E-14	Normal
PA237	CR Turb Bldg Air Intake	B - Part	DE-ENG	Normal
PB137	CR Turb Bldg Air Intake	B - Gas	DE-ENG	Normal
PC337	CR Turb Bldg Air Intake	B - Iodine	DE-ENG	Normal
PA238	CR Turb Bldg Air Intake	B - Part		Normal
PB138	CR Turb Bldg Air Intake	B - Gas	DE-ENG	Normal
PC338	CR Turb Bldg Air Intake	B - lodine	DE-ENG	Normal
PA201	U1 Containmt Purge Effi	Particulate	DE-ENG	Normal
PB101	U1 Containmt Purge Effl	Gas	ISOL	Normal
PC301	U1 Containmt Purge Effl	lodine	ISOL	Normal
PA201	U2 Containmt Purge Effl	Particulate	ISOL	Normal
PB101	U2 Containmt Purge Effl	Gas	3.25E-15	Normal
PC301	U2 Containmt Purge Effl	lodine	1.97E-06	Normal
PA211	U1 Containment Atmos.		3.61E-13	Normal
PA211	U2 Containment Atmos.	Particulate	3.18E-10	Normal
PB111	U1 Containment Atmos.	Particulate	5E-13	Normal
PB111	U2 Containment Atmos.	Low Gas	0.0033	Hi Alarm
PC311	U1 Containment Atmos.	Low Gas	4.08E-06	Normal
PC311	U2 Containment Atmos.	lodine	OSH	Hi Alarm
PD411	U1 Containment Atmos.	lodine	2.66E-12	Normal
PD411	U2 Containment Atmos.	High Gas	OSH	Hi Alarm
A213	U1 RHR/CS Cubicle 1A	High Gas	0.00281	Normal
A213	U2 RHR/CS Cubicle 1A U2 RHR/CS Cubicle 2A	Particulate	6.41E-13	Normal
and the second	OF KING CUDICIE ZA	Particulate	4.68E-13	Normal

PAGE 1 OF 2

All values are in units of µCi/cc unless noted.

Process Radiation Monitors Grid 2

TIME = 1110 (T+220)

PROCESS RADIATION MONITORS , GRID 2

RM-11 Code	Description	Description		
1PB113	U1 RHR/CS Cubicle 1A	Gas	8.37E-07	Normal
2PB113	U2 RHR/CS Cubicle 2A	Gas	1.56E-06	Normal
1PA214	U1 RHR/CS Cubicle 1A	Particulate	6.95E-13	Normal
2PA214	U2 RHR/CS Cubicle 2A	Particulate	5.5E-13	Normal
1PB114	U1 RHR/CS Cubicle 1A	Gas	1.95E-06	Normal
2PB114	U2 RHR/CS Cubicle 2A	Gas	1.65E-06	Normal
1PA215	U1 RHR Hx Cubicle 1A	Particulate	6.51E-13	Normai
2PA215	U2 RHR Hx Cubicle 2A	Particulate	1.01E-13	Normal
1PB115	U1 RHR Hx Cubicle 1A	Gas	1.6E-06	Normal
2PB115	U2 RHR Hx Cubicle 2A	Gas	2.12E-06	Normal
1PA216	U1 RHR Hx Cubicle 1B	Particulate	7.44E-13	Normal
2PA216	U2 RHR Hx Cubicle 2B	Particulate	3.56E-13	Normal
1PB116	U1 RHR Hx Cubicle 1B	Gas	2.17E-06	Normal
2PB116	U2 RHR Hx Cubicle 2B	Gas	1.6E-06	Normal
IPA217	U1 Cent Chg Pump 1A	Particulate	7.48E-15	Normal
PA217	U2 Cent Chg Pump 2A	Particulate	3.23E-15	Normal
PB117	U1 Cent Chg Pump 1A	Gas	1.48E-06	Normal
PB117	U2 Cent Chg Pump 2A	Gas	3.36E-06	Normal
PA218	U1 Cent Chg Pump 1B	Particulate	1E-12	Normal
PA218	U2 Cent Chg Pump 2B	Particulate	1.5E-12	Normal
PB118	U1 Cent Chg Pump 1B	Gas	4.01E-06	Normal
PB118	U2 Cent Chg Pump 2B	Gas	1.67E-06	Norma!
PA228	Aux. Building Vent Efflunt	Particulate	3.1E-11	Normal
PB128	Aux. Building Vent Efflunt	Low Gas	0.0002	Normal
PC328	Aux. Building Vent Efflunt	lodine	3.2E-11	Normal
PD428	Aux. Building Vent Efflunt	High Gas	0.003	Normal
PA228	Aux. Building Vent Efflunt	Particulate	1.04E-11	Normal
PB128	Aux. Building Vent Efflunt	Low Gas	0.000163	Normal
PC328	Aux. Building Vent Efflunt	lodine	5.41E-12	Normal
PD428	Aux. Building Vent Efflunt	High Gas	0.0027	Normal
PA130	Wide Range Gas Monitor	U1 Low Gas	5.16E-07	Normal
PB230	Wide Range Gas Monitor	U1 Mid Gas	3.96E-05	Normal
PC330	Wide Range Gas Monitor	U1 High Gas	0.00874	Normal
PA130	Wide Range Gas Monitor	U2 Low Gas	2.83E-07	Normal
PB230	Wide Range Gas Monitor	U2 Mid Gas	1.97E-05	Normal
PC330	Wide Range Gas Monitor	U2 High Gas	0.00169	Normal
PF430	Wide Range Gas Monitor	U1 µCi/sec	34.9	Normal
F430	Wide Range Gas Monitor	U2 µCi/sec	23.9	Normal

PAGE 2 OF 2

All values are in units of µCi/cc unless noted.

<<< *** THIS IS AN EXERCISE *** >>>

Process Radiation Monitors RM-11, Grid 3

TIME =

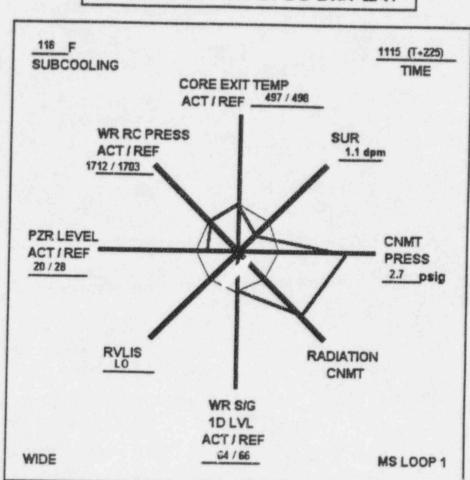
1110 (T+220)

PROCESS RADIATION MONITORS , GRID 3

RM-11 Code	Description	Value	Alarm Status		
0PA202	Gas Decay Tank Efflunt Low Gas		7.90E-06	Normal	
0PB102	Gas Decay Tank Efflunt	High Gas	4.52E-07	Normal	
0PA203	Lab Fume Hood	Particulate	2.01E-14	Normal	
0PB103	Lab Fume Hood	Gas	7.62E-06	Normal	
0PC303	Lab Fume Hood	lodine	3.67E-14	Normal	
0PA211	RW Evap. Cubicle	Particulate	6.35E-13	Normal	
0PB111	RW Evap. Cubicle	Gas	2.46E-06	Normal	
0PS112	Recycle Evap. Cubicle	Particulate	5.90E-13	Normal	
0PA213	Gas Decay Tank Cub.	Particulate	3.23E-15	Normal	
OPB113	Gas Decay Tank Cub.	Gas	1.68E-06	Normal	
DPS114	Drumming Station	Particulate	1.47E-12	Normal	
DPS115	Laundry Room	Particulate	7.71E-13	Normal	
PA221	Aux. Bldg Vent Exhst 0A	Particulate	5.50E-09	Normal	
PB121	Aux. Bldg Vent Exhst 0A	Gas	1.00E-05	Normal	
PC321	Aux. Bidg Vent Exhst 0A	lodine	3.00E-09	Normal	
PA222	Aux. Bidg Vent Exhst 0B	Particulate	9.84E-09	Normal	
PB122	Aux. Bldg Vent Exhst 0B	Gas	7.35E-06	Normal	
PC322	Aux. Bidg Vent Exhst 0B	lodine	4.92E-09	Alarm	
PA224	Fuel Building Vent Exhst	Particulate	1.28E-09	Normal	
PB124	Fuel Building Vent Exhst	Gas	8.50E-06	Normal	
PC324	Fuel Building Vent Exhst	lodine	2.49E-15	Normal	
PA225	Misc Tank Vent Effluent	Particulate	4.68E-15	Normal	
PB125	Misc Tank Vent Effluent	Gas	2.49E-06	Normal	
PC325	Misc Tank Vent Effluent	lodine	1.17E-14	Normal	
PA226	RW Area Vent Effluent	Particulate	6.25E-14	Normal	
PB126	RW Area Vent Effluent	Gas	1.80E-06	Normal	
PC326	RW Area Vent Effluent	lotine	5.73E-15	Normal	
PA240	Vol. Reduction Area Vent	Particulate	2.06E-15	Normal	
PB140	Vol. Reduction Area Vent	Gas	1.03E-06	Normal	
PC340	Vol. Reduction Area Vent	lodine	1.84E-14	Normal	
PA260	TSC Vent System	Particulate	4.10E-15		
PB160	TSC Vent System	Gas	2.00E-06	Normal	
PC360	TSC Vent System	lodine	1.28E-15	Normal	
PA221	U1 Pipe Tunnel	Particulate	1.00E-06	Normal	
A221	U2 Pipe Tunnel	Particulate		Hi Alarm	
PB121	U1 Pipe Tunnel	Gas	5.41E-13	Normal	
B121	U2 Pipe Tunnel	Gas	OSH	Hi Alarm	
°C321	U1 Pipe Tunnel	lodine	4.09E-06	Normai	
C321	U2 Pipe Tunnel	lodine	8.94E-05	Hi Alarm	
NUMBER OF STREET, STREE		iodine	3.67E-14	Normal	

Area Rediation Monitors RM-11 Orid 4

RM-11 Code		Descrip	bon	Value	Alarm Status	
	Elev. Location				Atarm Stat	
3AS101	Aux. Buildin			2.45	Normal	
3A5202	Aux. Buildin			3.04	Alarm	
3AS303	Aux. Buildin			2.35	Normal	
3AS104 3AS205	Aux. Building			2.73	Alarm	
3AS306	Aux. Building			2.57	Alarm	
3AS207	Aux. Building Aux. Building		PO take or	4.88	Aisrm	
345308	Aux. Building			4.13	Akarm	
345409	Aux. Building			2.58	Alarm	
3AS110	ALX. Building			2.88	Alarm	
3AS411	ALE Building			2.96	Akarm	
3AS412	Aux. Suliding		VID	3.08	Akarm	
3AS213	Aux. Building	401	N23	4.31	Aisom	
3AS314	ALD. Building		N25	4.5	Alerro	
3AS115	Aux. Building		V18	4.87	Alarm	
3AS416	Aux. Building		P18	4.63	Alarm	
3AS117	ALD. Building		Q18	2.56	Alerm	
3AS331	Aux. Building		HRSS Room	0.84	Normal	
3AS232	Aux. Building		Chem Lab	0.62	Normal	
3AS135 3AS137	Aux. Building		Drumming St	1.05	Normal	
3AS238	FHB Criticality		217	35.3	Normal	
3AS141	FHB Criticality		AA16	73.2	Alarm	
3AS142	RW Building RW Building	417	Dry Storage	0.107	Normal	
3AS243	RW Building	401	H43	0.303	Normal	
3AS144	RW Building	J43	Truck Bay Low Storage	1.87	Normal	
3AS245	RW Building	K43	High Storage	3.2	Normal	
3AS146	Vol. Reduction		L37	0.61	Normal	
3AS247	Vol. Reduction		K39	0.314	Normal	
3AS348	Vol. Reduction		K38	0.48	Normal	
3AS249	Vol. Reduction	401	J37	0.115	Normal	
3AS350	Vol. Reduction	417	J38	0.311	Normal	
3AS155	FHB Incident	426	X15	OSH	Hi Alarm	
MS156	FHB Incident	426	X21	DE-ENG	Normal	
SA173 AS274	TSC #1	435	Gi01	0.118	Normal	
AS101	TSC #2	451	HH01	0.121	Normal	
AS101	U1 Containmt U2 Containmt	426	R07	182	Alam	
A\$202	U1 Containmt	426	R26	3.34	Normal	
AS202	U2 Containmt	401	R17	102	Hi Alarm	
AS303	U1 Containmt	401	R37 Incore Seal Rm	0.681	Normai	
A\$303	U2 Containent	401	Incore Seei Rm	35000	Hi Alarm	
AS210	U1 Centrol Rm		P17	0.127	Normal	
AS310	U2 Control Rm		L17	0.127	Normal	
AS111	U1 Containmt		FH Incident	OSH	Hi Alam	
AS111	U2 Containmt		FH Incident	19.5	Normal	
AS112	U1 Containmt		FH Incident	DE-ENG	Normal	
AS112	U2 Containmt		FH Incident	18.1	Normal	
AS113	U1 VCT Cube	426	Aux. S15	315	Normal	
AS113	U2 VCT Cube	426	ALIX. S23	174	Normal	
AS120 AS120	U1 Containmt		High Range	200000	Normal	
NS121	U2 Containmt U1 Containmt		High Range	1350	Normal	
S121	U2 Containing		High Range	DE-ENG	Nomai	
A124	U1 Steam Tri	377	High Range	1480	Normal	
A124	U2 Steam Tri	377	R20	DE-ENG	Normal	
8224	U1 Steam Thi	377	R34 R13	2.56	Normal	
8224	U2 Steem Thi	377	R41	DE-ENG	Normal	
A125	U1 Pipe Pentr	364	AUX. ROS	DE-ENG	Normal	
A125	U2 Pipe Pentr	364	Aux R28	25.2	Normal	
8225	U1 Pipe Pentr	364	Aux. R07	DE-ENG	Normal	
8225	a man and and	364	Aux R26	15.1	Normal	
A126	U1 Pipe Pentr	383	Aux. R07	DE-ENG	Normal	
A126	U2 Pipe Pentr	383	ALX. R26	20.1	Normal	
8226		383	Aux. R05	DE-ENG	Normal	
8226	a had made and	383	ALX. R28	18.4	Normal	
A127		401	ALC. ROT	DE-ENG	Normal	
A127		401	Aux. R26	14	Normal	
8227		401	Aux. ROS	DE-ENG	Normal	
B227	U2 Pipe Pentr	401	Aux R28	8.89	Normal	



BYRON STATION SPDS DISPLAY

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<<< *** THIS IS AN EXERCISE *** >>>

CONTROL ROOM MESSAGE CR-23

TIME : 1120 - 1130 (T+230 - T+240)

ISSUED TO : UNIT 1 NSO

PREREQUISITE : NSO HAS NOT STARTED OA AUXILIARY BUILDING FANS AFTER TEH BUS 142 TRIP

MESSAGE

"THIS IS AN EXERCISE : In order to maintain Control Room fidelity with the offsite exercise scenario, you are DIRECTED to start the 0A Aux. Building Fans."

CONTROLLER NOTE : 1.

This action is necessary to provide flow to the Wide Range Monitors (WRGMs) so that a portion of the environmental release ... monitored.

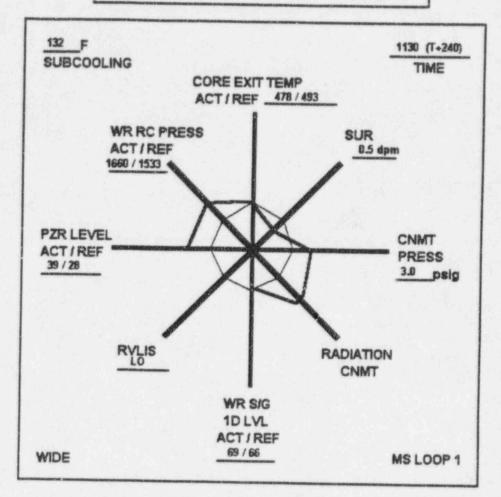
Time = 1120 (230)				PLANT STATUS-2
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	
RX POWER	Ú.00	PC	PRT LEVEL	76.44	PC
AUCT HI TAVE	-00 00	DROP	FRT FRESSURE	2.71	PSIG
AVG 10HI CETS	-99.99	DEGF	VCT LEVEL	0.00	PC
CORE SUE COOLING	-99.99	DEGF	CHARGING FLOW	286.27	GPM
PRZR LEVEL	0.00	DEGF	LETDOWN FLOW	0.00	GPM
PRZR PRESSURE	-99.99	PSIG	RVLIS-HEAD	100.00	PC
RCS WR PRESSURE		PSIG	RVLIS-PLENUM	100.00	PC
W.R. RCS TEMP	LOOPIA	LOOPIB	LOOPIC		
		2001 20	LOOPIC	LOOP1D	UNITS
HOT LEG:	483.91	483.82	483.91	107 10	
COLD LEG:	482.98	482.94		487.42 486.49	DEGF
TAVE :	-99.99			-99.99	DEGF
			- 55.35	-99.99	DEGF
SECONDARY	LOOPLA	LOOPIB	LOOPIC	LOOPID	UNITS
				DOUE TO	UNITS
SG PRESS	579.51	580.73	580.73	581.38	PSIG
S/G NR LEVEL	59.62	54.80	50.03	69.56	PC
S/G WR LEVEL S/G STM FL	67.08	65.56	64.07	70.30	PC
	0.00	28.62		43.87	KBH
S/G FEED FL	0.00	0.00	0.00	0.00	KBH
GENERATOR OUTPUT		MW	COND PRESS	0.00	INHGA
CST LEVEL	77.44	PC			Annon
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917		GPM	and the second second		
SI FLW TRAIN A	34.61	GPM	CNMT PRESS	2.80	PSIG
SI FLW TRAIN B	34.61	GPM	CNMT TEMP	162.65	DEGF
RHR FLW TRAIN A	0.00	GPM	CNMT HYDROGEN	0.00	PC
RHR FLW TRAIN B	0.00	GPM	RECIRC SUMP LVL	-99.99	INCHES
CS FLOW TRAIN A	0.00		CNMT FLW WTR LVL	0.00	INCHES
CST FLOW TRAIN B	0.00				
RWST LEVEL	89.55	GPM			
	09.00	PC			

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Time = 1130 (240)				PLANT STATUS-25
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	
RX POWER	0.00	PC	PRT LEVEL	76.44	PC
AUCT HI TAVE	-99,99	DEGF	PRT PRESSURE VCT LEVEL	2.82	PSIG
AVG 10HI CETS	-99.99	DEGF	CHARGING FLOW	0.00	PC
CORE SUB COOLING		DEGF	LETDOWN FLOW	154.58	GPM GPM
PRZR LEVEL	0.00	PC	RVLIS-HEAD	100.00	PC
PRZR PRESSURE	-99.99 1709.28	PSIG PSIG	RVLIS-PLENUM	100.00	PC
W.R. RCS TEMP	LOOPLA	LOOPIB	LOOPIC	LOOPID	UNITS
HOT LEG:	474.14	474.14	474.14	477 75	
COLD LEG:	475.39	475.40		477.35 476.65	DEGF
TAVE:	-99.99	-99.99		-99.99	DEGF DEGF
SECONDARY	LOOPLA	LOOP1B	LOOPIC	LOOPID	UNITS
				DODETD	UNITS
SG PRESS S/G NR LEVEL	529.08	529.43	529.43	530.12	PSIG
S/G WR LEVEL	61.38	54.30	49.63	66.68	PC
S/G STM FL	0.00	66.17	64.70	69.39	PC
S/G FEED FL	0.00	17.62	16.93	72.53	KBH
GENERATOR OUTPUT	0.00	MW	0.00	0.00	KBH
CST LEVEL	77.01	PC	COND PRESS	0.00	INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917		GPM	CNMT PRESS		
SI FLW TRAIN A	0.00	GPM	CNMT TEMP	3.00	PSIG
SI FLW TRAIN B	0.00	GPM	CNMT HYDROGEN	165.96	DEGF
RHR FLW TRAIN A	0.00	GPM	RECIRC SUMP LVL	-99.99	PC INCHES
RHR FLW TRAIN B	0.00	GPM	CNMT FLW WTR LVL	0.00	INCHES
CS FLOW TRAIN A	0.00	GPM		0.00	INCHES
CST FLOW TRAIN B	0.00	GPM			
RWST LEVEL	88.85	PC			

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Time = 1140 (250)

				F	LANT STATUS
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
Rx POWER AUCT HI TAVE AVG 10HI CETS CORE SUB COOLING PRZR LEVEL PRZR PRESSURE RCS WR PRESSURE	-99.99 -99.99 0.00 -99.99	PC DEGF DEGF DEGF PC PSIG PSIG	PRT LEVEL PRT PRESSURE VCT LEVEL CHARGING FLOW LETDOWN FLOW RVLIS-HEAD RVLIS-PLENUM	76.44 2.93 0.00 149.46 0.00 100.00 100.00	PC PSIG PC GPM GPM PC PC
W.R. RCS TEMP	LOOPIA	LOOPIB	LOOPIC	LOOPID	UNITS
HOT LEG: COLD LEG: TAVE:	470.19 471.16 -99.99	470.19 471.16 -99.99	470.19 471.16 -99.99	472.42	DEGF DEGF DEGF
SECONDARY	LOOPIA	LOOPIB	LOOPIC	LOOPID	UNITS
SG PRESS S/G NR LEVEL S/G WR LEVEL S/G STM FL S/G FEED FL GENERATOR OUTPUT CST LEVEL	69.52 0.00 0.00	508.81 54.72 66.70 4.92 0.00 MW PC	50.10	59.19 67.49 57.88	PSIG PC PC KBH KBH INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
	0.00	GPM GPM GPM GPM GPM GPM PC	CNMT PRESS	3.10 167.80 0.00	PSIG DEGF PC

PLANT STATUS-26

TREND 10 MIN X24		HIGH RAN	11-15-95	11:40:25				
NAME 4AS120	TYPE	CHANNEL ID ARM-1RE-AR020	DESCRIPTION HI RNG CNTMT 426', 1/	-	VALUE 2.41E+2	UNITS	UNITS R/HR	

2.41E+2		w	v
2.34E+2	***************************************	~	v
2.20E+2	***************************************	w	v
2.00E+2	***************************************	No.	v
1.86E+2	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	CN	v
1.71E+2	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	C N	v
1.51E+2	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG		
1.22E+2	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	V	V
1.04E+2	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	V	V
7.04E+1	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	V	V
2.77E+1	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	V	V
1.09E+1	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	V	V
5.89E+0	GE	V	V
2.97E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	V	v
2.89E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	V
	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	V	V
2.88E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	V	v
2.88E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	V	V
2.86E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	v
2.86E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	V	V
2.85E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	V	v
2.83E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	V	v
2.81E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	V	v
2.78E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	v
2.74E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	v
2.64E+0	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	v	Ň

RM-11 POINT TREND CONTAINMENT RADIATION 1140 (T+250)

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* THE - 1120 (500)				PLANT STATUS-27
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
Rx POWER	0.00	PC	PRT LEVEL	76.44	PC
AUCT HI TAVE AVG 10HI CETS CORE SUB COOLING PRZR LEVEL PRZR PRESSURE RCS WR PRESSURE 1	-99.99 -99.99 0.00 -99.99	DEGF DEGF DEGF PC PSIG PSIG	PRT PRESSURE VCT LEVEL CHARGING FLOW LETDOWN FLOW RVLIS-HEAD RVLIS-PLENUM	3.04 0.00 151.77 0.00 100.00 100.00	PSIG PC GPM GPM PC PC
W.R. RCS TEMP	Loopla	LOOPIB	LOOPIC	LOOPID	UNITS
HOT LEG: COLD LEG: TAVE:	468.48 469.61 -99.99	469.61	469 61	471.45 470.88 -99.99	DEGF DEGF DEGF
SECONDARY	LOOFLA	LOOPIB	LOOPIC	LOOPID	UNITS
SG PRESS S/G NR LEVEL S/G WR LEVEL S/G SIM FL S/G FEED FL GENERATOR OUTPUT CST LEVEL	501.67 65.70 70.45 0.00 0.00 0.00 76.25	501.62 56.54 67.38 6.21 0.00 MW PC	501.62 51.93 65.94 6.05 0.00 COND PRESS	502.01 54.42 66.35 53.80 0.00 0.00	PSIG PC PC KBH KBH INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917 SI FLW TRAIN A SI FLW TRAIN B RHR FLW TRAIN A RHR FLW TRAIN B CS FLOW TRAIN A CST FLOW TRAIN B RWST LEVEL	0.00 0.00 0.00 0.00 0.00 88.25	GPM GPM GPM GPM GPM GPM PC	CNMT PRESS CNMT TEMP CNMT HYDROGEN RECIRC SUMP LVL CNMT FLW WTR LVL	3.14 168.79 0.00 -99.99 0.00	PSIG DEGF PC INCHES INCHES

Time = 1150 (260)

CONTROL ROOM MESSAGE CR-24

TIME : 1155 (T+265)

ISSUED TO : UNIT 1 NSO

PREREQUISITE :

MAX RATE CONTAINMENT LEAK HAS OCCURRED ; CONTAINMENT SPRAY FAILURE HAS OCCURRED

MESSAGE

The following Control Room Alarm(s) have been received :

CONTROL ROOM MESSAGE CR-25

TIME : 1155 - 1205 (T+265 - T+275)

ISSUED TO : UNIT 1 NSO

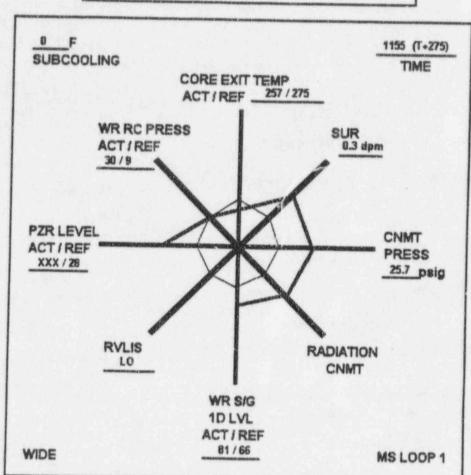
PREREQUISITE : MAX RATE COOLANT LEAK IS IN PROGRESS

MESSAGE

Issue the following information VERBALLY :

All MSIVs have isolated.

Containment Sprays are not operating



BYRON STATION SPDS DISPLAY

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CONTROL ROOM MESSAGE CR-26

TIME : 1158 (T+268)

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ISSUED TO : UNIT 1 NSO

PREREQUISITE : CONTAINMENT HATCH FAILURE HAS OCCURRED

MESSAGE

The following Control Room Alarm(s) have been received :

Unit 1, RM-11	
You hear the RM-11 audible alarm.	

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATION		
Participant checks the RM-11.	The Grid 4 Status Block is flashing RED.		
Participant selects Grid 4.	The following monitor channels are flash- ing RED : 3AS117 (Aux. Bldg. 451')		
	3AS137 (FHB Criticality, U1) 3AS238 (FHB Criticality, U2)		
Participant trends any of 3AS117, 3AS137, or 3AS238.	The bar graph for each monitor is colored RED and runs completely across the screen.		

CONTROLLER NOTE : 1.

Monitor 3AS156 (FHB Incident) would also be in an alarm (RED) condition except that it loses power when Bus 142 trips. 3AS156 is colored PURPLE.

ľ.

CONTROL ROOM MESSAGE CR-27

TIME : 1158 (T+268)

ISSUED TO : UNIT 1 NSO READING CONTAINMENT PRESSURE

PREREQUISITE : CONTAINMENT HATCH FAILURE HAS OCCURRED

MESSAGE

iSSUE the following information VERBALLY :

Containment pressure has taken a sudden drop.

Time = 1200 (270)

	·				PLANT STATUS	-;
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS	
Rx POWER	0.00	PC	PRT LEVEL PRT PRESSURE	76.44	PC	
AUCT HI TAVE	-99.99	DEGF	5 2010 00 00 00 000 00	3.38	PSIG	
AVG 10HI CETS	-99,99	DEGE	CHARGING FLOW	0.00	PC	
CORE SUB COOLING	-99,99	DEGF	LETDOWN FLOW	244.34	GPM	
PRZR LEVET	0 00	D.CI	RVLIS-HEAD	0.00		
PRZR PRESSURE	-99.99	PSIG	RVLIS-PLENUM	0.00	PC	
RCS WR PRESSURE	25.33	PSIG		0.00	PC	
W.R. RCS TEMP	LOOPLA	LOOPIB	FOOD.C	LOOPID		
			aroura . U	TOOLID	UNITS	
HOT LEG: COLD LEG:	267.16 225.66	266.82	267.36	267.16	DRCD	
COLD LEG:	225.66	227.12	225.74	207.10	DEGF	
TAVE :	-99.99	227.12	-99.99	-99.99	DEGF	
				- 55.99	DEGE	
SECONDARY	LOOPLA	LOOP1B	LOOPIC	LOOPID	UNITS	
SG PRESS	451.15		영화 영화 방법이 이 있는 것			
SG PRESS S/G NR LEVEL	78.98		464.08		PSIG	
S/G WR LEVEL	83.06	67.99		61.09	PC	
S/G WR LEVEL S/G STM FL S/G FEED FL	0.00	79.45	77.78	77.26	PC	
S/G FEED FL	0.00	0.00		0.00	KBH	
GENERATOR OUTPUT	0.00	MW	0.00 COND FRESS	0.00	KBH	
CST LEVEL	75.86	PC	COND FRESS	0.00	INHGA	
ECCS	VALUE	UNITS	CONTAINMENT	VALUE		
			ar sain and a	VALUE	UNITS	
CV FL1F1-917		GPM	CNMT PRESS	24.49	PSIG	
SI FLW TRAIN A	0.00	GPM	CNMT TEMP	252.13	DEGF	
SI FLW TRAIN B	0.00	GPM	CNMT HYDROGEN	0.00	PC	
RHR FLW TRAIN A	0.00	GPM	RECIRC SUMP LVL	108.00	INCHES	
RHR FLW TRAIN B	0.00	GPM	CNMT FLW WTR LVL	4.87	INCHES	
CS FLOW TRAIN A	0.00	GPM		4.07	INCHES	
CST FLOW TRAIN B	0.00	GPM				
RWST LEVEL	87.81	PC				

PLANT STATUS-28

BYRON 1995 GSEP EXERCISE NOVEMBER 15, 1995

IN PLANT EQUIPMENT AVAILABILITY

TIME :

1200 (T+280)

UNIT 1

Ритр Туре	A	В	C	D	Other
Reactor Coolant Pumps	AV	AV	AV	R	
RCFC	RS	DE	RS	DE	
CV Pumps	R	DE			PDP - OOS
SI Pumps	R	DE			101 000
RH Pumps	DMG	DE			
CS Pumps	DMG	DE			
CC Pumps	R	oos			0 - DE
Aux Feed Pumps	R	R	和自然。		U-DE

Reactor Systems	Status	Status Electrical Equipment		
Rx Trip Breakers	A - CLOSED B - CLOSED	SATs	Status 142-1 ENG 142-2 ENG	
Rod Positions	All Rods Full In	UATS	141-1 AV / DE 141-2 AV / DE	
Primary PORVs	CLOSED	6.9 kV Busses	156 ENG 157 ENG 158 ENG 159 ENG	
Secondary PORVs	CLOSED	4 kV Busses	141 ENG 142 DMG 143 ENG 144 ENG	
Primary Safeties	CLOSED	125V AC Instrument	111 ENG 112 ENG 113 ENG 114 ENG	
Secondary Safeties CLOSED		120V DC Busses	111 ENG 112 ENG 113 ENG 114 ENG	
Other Information : Unit 0 CC Pump is aligned to Bus 142 Personnel Hatch damaged w/release in progress		250V DC Busses	U1 ENG U2 ENG	
		Diesel Generators	1A R 1B DMG	

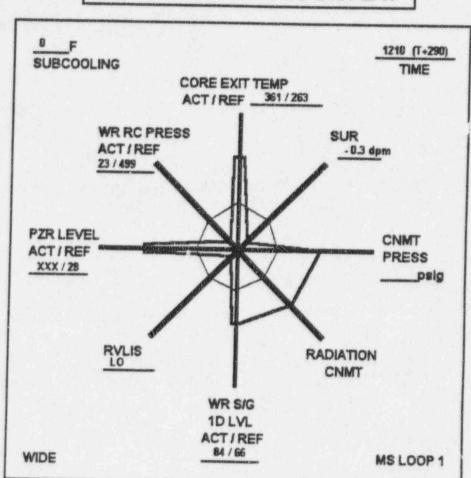
THIS IS AN EXERCISE

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Time		101	0	195	101	
Differen &	-	461		120	su)	

PLANT STATUS-29

PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
Rx POWER AUCT HI TAVE AVG 10HI CETS CORE SUB COOLING PRZR LEVEL PRZR PRESSURE RCS WR PRESSURE	0.00 -99.99 -99.99 -99.99 0.00 -99.99 21.44	PC DEGF DEGF PC PSIG PSIG	PRT LEVEL PRT PRESSURE VCT LEVEL CHARGING FLOW LETDOWN FLOW RVLIS-HEAD RVLIS-PLENTAM	76.44 3.86 0.00 244.56 0.00 0.00 0.00	PC PSIG PC GPM GPM PC PC
W.R. RCS TEMP	Loopla	LOOPIB	LOOPIC	LOOPID	UNITS
HOT LEG: COLD LEG: TAVE:	260.49 231.01 -99.99	261.27 231.16 -99.99	258.46 231.25 -99.99	261.27 231.01 -99.99	DEGF DEGF DEGF
SECONDARY	LOOPIA	LOOPIB	_03,1C	LOOPID	UNITS
SG PRESS S/G NR LEVEL S/G WR LEVEL S/G STM FL S/G FEED FL GENERATOR OUTPUT CST LEVEL	420.02 81.74 84.31 0.00 0.00 0.00 75.48	430.70 71.03 80.84 0.00 0.00 MW PC	416.75 65.68 79.24 0.00 0.00 COND PRESS	412.97 65.21 79.18 0.00 0.00 0.00	PSIG PC PC KBH KBH INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917 SI FLW TRAIN A SI FLW TRAIN B RHR FLW TRAIN A RHR FLW TRAIN B CS FLOW TRAIN A CST FLOW TRAIN B RWST LEVEL	7.61 7.61 0.00 0.00 0.00 0.00 87.24	GPM GPM GPM GPM GPM GPM PC	CNMT PRESS CNMT TEMP CNMT HYDROGEN RECIRC SUMP LVL CNMT FLW WTR LVL	21.04 238.38 0.00 108.00 5.55	PSIG DEGF PC INCHES INCHES



BYRON STATION SPDS DISPLAY

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CONTROL ROOM MESSAGE CR-28

TIME : 1215 (T+285)

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ISSUED TO : UNIT 1 NSO

PREREQUISITE : HIGH DIFFERENTIAL PRESSURE IS RECEIVED ON RIVER SCREEN HOUSE TRAVELING SCREEN(S)

MESSAGE

The following Control Room Alarm(s) have been received :

Unit O

TRAV SCRN CONT PANEL TROUBLE (0-38-D11)

Time = 1220 (2	290)
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PLANT STATUS-30

PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
RX POWER AUCT HI TAVE	0.00	PC	PRT LEVEL PRT PRESSURE VCT LEVEL	76.44	PC PSIG
AVG 10HI CETS CORE SUB COOLING PRZR LEVEL PRZR PRESSURE RCS WR PRESSURE	-99.99	DEGF DEGF PC PSIG PSIG	CHARGING FLOW LETDOWN FLOW RVLIS-HEAD RVLIS-PLENUM	0.00 244.75 0.00 0.00 0.00	PC GPM GPM PC PC
W.R. RCS TEMP	Loopia	LOOPIB	LOOPIC	LOOPID	UNITS
HOT LEG: COLD LEG: TAVE:	282.79 180.73 -99.99	286.11 180.45 -99.99	282.58 180.73 ~99.99	286.11 180.34 -99.99	DEGF DEGF DEGF
SECONDARY	LOOPLA	LOOPIB	LOOPIC	LOOPID	UNITS
SG PRESS S/G NR LEVEL S/G WR LEVEL S/G STM FL S/G FEED FL GENERATOR OUTPUT CST LEVEL	412.00 81.47 83.39 0.00 0.00 0.00 75.34	420.90 71.01 80.02 0.00 0.00 MW PC	403.10 65.80 78.59 0.00 0.00 COND PRESS	396.67 65.70 78.64 0.00 0.00 0.00	PSIG PC PC KBH KBH INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917 SI FLW TRAIN A SI FLW TRAIN B RHR FLW TRAIN A RHR FLW TRAIN B CS FLOW TRAIN A CST FLOW TRAIN B RWST LEVEL	11.38 11.38 0.00 0.00 0.00 0.00 86.62	GPM GPM GPM GPM GPM GPM GPM PC	CNMT PRESS CNMT TEMP CNMT HYDROGEN RECIRC SUMP LVL CNMT FLW WTR LVL	16.93 240.16 0.00 108.00 5.97	PSIG DEGF PC INCHES INCHES

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Time = 1230 (300))				
					PLANT STATUS-31
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	
RX POWER	0.00	PC	PRT LEVEL		
				76.44	PC
AUCT HI TAVE	-99.99	DEGF	PRT PRESSURE	4.70	PSIG
AVG 10HI CETS	-99,99	DEGF	VCT LEVEL	0.00	PC
CORE SUB COOLING	-99 99	DEGF	CHARGING FLOW	244.91	GPM
PRZR LEVEL	0.00		LETDOWN FLOW	0.00	GPM
	-99.99	PC	RVLIS-HEAD	0.00	PC
RCS WR PRESSURE	-99.99	PSIG	RVLIS-PLENUM	0.00	PC
NOS WA FRESSURE	13.62	PSIG		0.00	PC
W.R. RCS TEMP	LOOPLA				
		LOOP1B	LOOP1C	LOOFID	UNITS
HOT LEG:	277.93	280.46	277.78		
COLD LEG:	170.71	170.76	4. / / . / 0	277.78	DEGF
TAVE :	-99.99	-99.99	10.11	170.71	DEGF
		-33.33	-99.99	-99.99	DEGF
SECONDARY	LOOPLA	LOOPIB			
		TOOLTD	LOOPIC	LOOPID	UNITS
SG PRESS	411.49	420.68			
S/G NR LEVEL	79.92		399.63	393.92	PSIG
S/G WR LEVEL	81.85	69.67	64.84	64.68	PC
S/G STM FL	0.00	78.54	77.27	77.28	PC
S/G FEED FL		0.00	0.00	0.00	KBH
GENERATOR OUTPUT	0.00	0.00	0.00	0.00	
CST LEVEL	0.00	MW	COND PRESS	0.00	KBH
COT LEVEL	75.33	PC		0.00	INHGA
ECCS	VALUE	UNITS	CONTAINMENT		
			Conterest dates	VALUE	UNITS
CV FL1F1-917		GPM	CNMT PRESS		
SI FIW TRAIN A	12.80	GPM	CHMI PRESS	13.48	PSIG
SI FLW TRAIN B	12.80	GPM	CNMT TEMP	236.39	DEGF
RHR FLW TRAIN A	0.00	GPM	CNMT HYDROGEN	0.00	PC
RHA FLW TRAIN B	0.00	GPM	RECIRC SUMP LVL	108.00	INCHES
CS FLOW TRAIN A	0.00		CNMT FLW WTR LVL	6.29	INCHES
CST FLOW TRAIN B		GPM			TACLES
The short strength D	0.00	GPM			
RWST LEVEL	85.98	PC			

Time = 1240 (310)

PLANT STATUS-32

PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
Rx POWER	0.00	PC	PRT LEVEL	76.44	PC
AUCT HI TAVE			PRT PRESSURE	5.01	PSIG
	-99.99	DEGF	VCT LEVEL	0.00	PC
AVG 10HI CETS	-99.99	DEGF	CHARGING FLOW	245.04	GPM
CORE SUB COOLING		DEGF	LETDOWN FLOW	0.00	GPM
PRZR LEVEL	0.00	PC	RVLIS-HEAD	0.00	
PRZR PRESSURE	-99.99	PSIG	RVLIS-PLENUM	0.00	PC
RCS WR PRESSURE	10.92	PSIG	THE FERNOR	0.00	PC
W.R. RCS TEMP	LOOPLA	LOOPIB	LOOPIC	100010	
			200220	LOOPID	UNITS
HOT LEG:	271.31	272.61	272.61		
COLD LEG:	164.70	164.59	272.01	272.43	DEGF
TAVE :	-99.99	-99.99	164.76	164.70	DEGF
	55.55	-99.99	-99.99	-99.99	DEGF
SECONDARY	LOOPLA	LOOPIB	LOOPIC		
		TOOLTD	TOOLIC	LOOPID	UNITS
SG PRESS	410.50	420.20	205 40		
S/G NR LEVEL	78.37	68.33	395.42	389.15	PSIG
S/G WR LEVEL	80.36	66.33	65.89	63.65	PC
S/G STM FL	0.00	77.11	75.98	75.97	PC
S/G FEED FL		0.00	0.00	0.00	KBH
GENERATOR OUTPUT	0.00	0.00	0.00	0.00	KBH
	0.00	MW	COND PRESS	0.00	INHGA
CST LEVEL	75.31	PC		0.00	THURN
ECCS	VALUE	UNITS			
	Theory	UNIIS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917		GPM	CNMT PRESS	10.76	8276
SI FLW TRAIN A	14.87	GPM	CNMT TEMP		PSIG
SI FLW TRAIN B	14.87	GPM	CNMT HYDROGEN	228.81	DEGF
RHR FLW TRAIN A	0.00	GPM	CAMI HIDROGEN	0.00	PC
RHR FLW TRAIN B	0.00	GPM	RECIRC SUMP LVL	108.00	INCHES
CS FLOW TRAIN A	0.00	GPM	CNMT FLW WTR LVL	6.58	INCHES
CST FLOW TRAIN B					
RWST LEVEL	0.00	GPM			
THOI DEVEL	85.33	PC			

Time = 1250 (320)

PLANT STATUS-33

Rx POWER0.00PCPRT LEVEL76.44PCAUCT HI TAVE-99.99DEGFPRT PRESSURE5.27PSIGAVG 10HI CETs-99.99DEGFVCT LEVEL0.00PCCORE SUB COOLING-99.99DEGFCHARGING FLOW74.02GPMPRZR LEVEL0.00PCRVLIS-HEAD0.00GPMPRZR PRESSURE-99.99PSIGRVLIS-HEAD0.00PCPRZS WR PRESSURE8.69PSIGRVLIS-PLENUM15.00PC
AVG 10HI CETS-99.99DEGFCHARGING FLOW0.00PCCORE SUE COOLING-99.99DEGFLETDOWN FLOW74.02GPMPRZR LEVEL0.00PCRVLIS-HEAD0.00GPMPRZR PRESSURE-99.99PSIGRVLIS-PLENUM15.00PC
CORE SUB COOLING -99.99DEGFLETDOWN FLOW74.02GPMPRZR LEVEL0.00PCRVLIS-HEAD0.00GPMPRZR PRESSURE-99.99PSIGRVLIS-PLENUM15.00PC
PRZR LEVEL 0.00 PC RVLIS-HEAD 0.00 PC PRZR PRESSURE -99.99 PSIG RVLIS-PLENUM 15.00 PC
PRZR PRESSURE -99.99 PSIG RVLIS-PLENUM 15.00 PC
RCS WR PRESSURE 0 CO DETC
RCS WR PRESSURE 8.69 PSIG
W.R. RCS TEMP LOOPIA LOOPIB LOOPIC LOOPID UNITE
LOOPIC LOOPID UNITS
HOT LEG: 157.08 155.16 155.91 DEGE
COLD LEG: 138.33 138.31 138.33 138.32
TAVE: -99.99 -99.99 -99.99 -99.99 DEGF
SECONDARY LOOPIA LOOPIB LOOPIC LOOPID UNITS
SG PRESS 409.20 418.98 389.38 383.77 PSTC
S/G NR LEVEL 76.76 66.91 62.00 PSIG
S/G WR LEVEL 78.84 75.63 74.63 74.61 PC
S/G STM FL 0.00 0.00 0.00 PC
5/G FEED FL 0.00 0.00 0.00
GENERATOR OUTPUT 0.00 MW COND PRESS 0.00 TOR
CST LEVEL 75.30 PC COND PRESS 0.00 INHGA
ECCS VALUE UNITS CONTAINMENT
VALUE UNITS CONTAINMENT VALUE UNITS
CV FL1F1-917 GPM CNMT PRESS 7.97 PETC
SI FLW TRAIN A 171.10 GPM CADA TRANS 7.97 PSIG
SI FLW TRAIN B 170.55 CPM CANT UNDERSE
MAR FLW TRAIN A -99,99 CPM BROTHC SINCE
RHR FLW TRAIN B 0.00 GPM GIVE DVL 108.00 INCHES
CO LLOW INALN A 0.00 CPM
CST FLOW TRAIN B 0.00 GPM
RWST LEVEL 74.32 PC

Time = 1330 (330)				PLANT STATUS-34
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
Rx POWER	0.00	PC	PRT LEVEL	76.44	PC
AUCT HI TAVE AVG 10HI CETS CORE SUB COOLING PRZR LEVEL PRZR PRESSURE RCS WR PRESSURE	-99.99 -99.99 -99.99 0.00 -99.99 6.45	DEGF DEGF DEGF PC PSIG PSIG	PRT PRESSURE VCT LEVEL CHARGING FLOW LETDOWN FLOW RVLIS-HEAD RVLIS-PLENUM	5.47 0.00 73.99 0.00 0.00 15.00	PSIG PC GPM GPM PC PC
W.R. RCS TEMP	LOOPLA	LOOPIE	LOOPIC	LOOPID	UNITS
HOT LEG: COLD LEG: TAVE:	134.15 139.74 -99.99	134.55 138.90 -99.99	138.43	134.11 139.74 -99.99	DEGF DEGF DEGF
SECONDARY	LOOPIA	LOOPIB	LOOPIC	LOOPID	UNITS
SG PRESS S/G NR LEVEL S/G WR LEVEL S/G STM FL S/G FEED FL GENERATOR OUTPUT CST LEVEL	407.67 74.88 77.12 0.00 0.00 0.00 75.28	417.43 65.27 73.99 0.00 0.00 MW PC	382.21 61.68 73.11 0.00 0.00 COND PRESS	377.63 61.35 73.06 0.00 0.00 0.00	PSIG PC PC KBH KBH INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917 SI FLW TRAIN A SI FLW TRAIN B RHR FLW TRAIN A RHR FLW TRAIN B CS FLOW TRAIN A CST FLOW TRAIN B RWST LEVEL	171.05 170.51 -99.99 0.00 0.00 0.00 58.88	GPM GPM GPM GPM GPM GPM PC	CNMT PRESS CNMT TEMP CNMT HYDROGEN RECIRC SUMP LVL CNMT FLW WTR LVL	5.46 206.47 0.00 108.00 12.76	PSIG DEGF PC INCHES INCHES

	'				PLANT STATUS
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
RX POWER	0.00	PC	PRT LEVEL PRT PRESSURE	76.44	PC
AUCT HI TAVE	-99,99	DEGF	VCT LEVEL	5.61	PSIG
AVG 10HI CETS		DEGF	CHARGING FLOW	73.96	GPM
CORE SUB COOLING	-99.99	DEGF	LETDOWN FLOW	0.00	GPM
PRZR LEVEL	0.00	PC	RVLIS-HEAD	0.00	PC
PRZR PRESSURE		PSIG	RVLIS-PLENUM	15.00	PC
RCS WR PRESSURE	4.97	PSIG			
W.R. RCS TEMP	LOOPLA	LOOPIB	LOOPIC	LOOPID	UNITS
and a second second second				1001 10	ONTID
HOT LEG:	127.06	128.24	127.06	126.44	DEGF
COLD LEG:	134.30			134.30	DEGF
TAVE :	-99.99	-99.99	-99.99	-99.99	DEGF
SECONDARY	LOOPLA	LOOPIB	LOOPIC	LOOPID	UNITS
				TOOLTD	UNITS
SG PRESS	406.22	416.17	374.96	371.13	PSIG
S/G NR LEVEL	73.08	63.69	60.53	60.12	PC
S/G WR LEVEL	75.49	72.43	71.66	71.58	PC
S/G STM FL	0.00	0.00	0.00	0.00	KBH
S/G FEED FL GENERATOR OUTPUT	0.00	0.00	0.00	0.00	KBH
CST LEVEL	0.00 75.16	MW PC	COND PRESS	0.00	INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917		GPM	CNMT PRESS	3.97	PSIG
SI FLW TRAIN A		GPM	CNMT TEMP	193.34	DEGF
SI FLW TRAIN B	170.40	GPM	CNMT HYDROGEN	0.00	PC
RHR FLW TRAIN A	-99.99	GPM	RECIRC SUMP LVL	108.00	INCHES
RHR FLW TRAIN B	0.00	GPM	CNMT FLW WTR LVL	17.19	INCHES
CS FLOW TRAIN A	0.00	GPM			
CST FLOW TRAIN B RWST LEVEL	0.00	GPM			
NADY TEVED	43.61	PC			

PLANT STATUS-35

Time = 1310 (340)

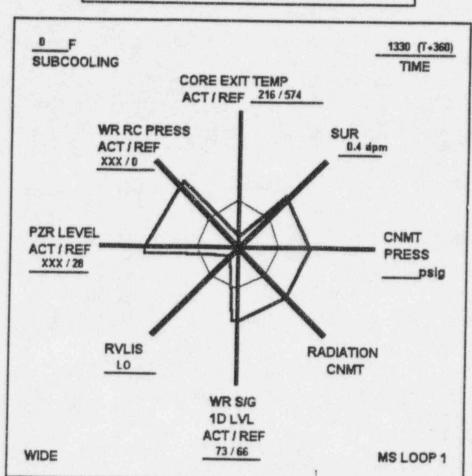
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Time = 1320 (350)

1.00

Time = 1320 (350)				PLANT STATUS-36
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	
Rx POWER	0.00	PC	PRT LEVEL	76.44	
AUCT HI TAVE AVG 10HI CETS CORE SUB COOLING PRZR LEVEL PRZR PRESSURE RCS WR PRESSURE	-99.99 -99.99 0.00	DEGF DEGF DEGF PC PSIG PSIG	PRT PRESSURE VCT LEVEL CHARGING FLOW LETDOWN FLOW RVLIS-HEAD RVLIS-PLENUM	5.70 0.00 74.27 0.00 0.00 15.00	PSIG PC GPM
W.R. RCS TEMP	LOOPIA	LOOPIB			
			LOOP1C	LOOP1D	UNITS
HOT LEG: COLD LEG: TAVE:	181.27 163.95 -99.99	181.69 163.68 -99.99	163.84	181.57 163.95 -99.99	DEGF DEGF DEGF
SECONDARY	LOOPIA	LOOPIB	LOOP1C	LOOPID	UNITS
SG PRESS S/G NR LEVEL S/G WR LEVEL S/G STM FL S/G FEED FL GENERATOR OUTPUT CST LEVEL	404.70 71.45 74.04 0.00 0.00 0.00 74.92	414.77 62.27 71.02 0.00 0.00 MW PC	367.57 59.50 70.36 0.00 0.00 COND PRESS	365.50 59.08 70.24 0.00 0.00 0.00	PSIG PC PC KBH KBH INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917 SI FLW TRAIN A SI FLW TRAIN B RHR FLW TRAIN A RHR FLW TRAIN B CS FLOW TRAIN A CST FLOW TRAIN B RWST LEVEL	170 52	GPM GPM GPM GPM GPM GPM FC	CNMT PRESS CNMT TEMP CNMT HYDROGEN RECIRC SUMP LVI. CNMT FLW WTR LVL	3.09 180.97 0.00	PSIG DEGF PC INCHES INCHES

Time = 1330 (360)				PLANT STATUS-37
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
Rx POWER	0.00	PC	PRT LEVEL	76.44	PC
AUCT HI TAVE	-99.99	DEGF	PRT PRESSURE	5.75	PSIG
AVG 10HI CETS	-99.99	the second se	VCT LEVEL	0.00	PC
CORE SUB COOLING	-99.99	DEGF	CHARGING FLOW	74.26	GPM
PRZR LEVEL	0.00		LETDOWN FLOW	0.00	GPM
PRZR PRESSURE	-99.99	PC	RVLIS-HEAD	0.00	PC
RCS WR PRESSURE	3.25	PSIG PSIG	RVLIS-PLENUM	15.00	PC
W.R. RCS TEMP	LOOPIA	LOOPIB			
		TOOLID	LOOPIC	LOOP1D	UNITS
HOT LEG:	196.77	196.71			
COLD LEG:	177.04	177.74	195.15	196.16	DEGF
TAVE :	-99.99	-99.99	177.41	177.04	DEGF
	- 23.33	-99.99	-99.99	-99.99	DEGT
SECONDARY	LOOPLA	LOOP1B	LOOPIC	LOOPID	UNITS
SC DDDCC				200110	UNITS
SG PRESS	403.04	413.21	359.63	360.41	PSIG
S/G NR LEVEL	70.03	61.03	58.67	58.21	PC
S/G WR LEVEL	72.84	69.88	69.31	69.15	
S/G STM FL	0.00	0.00	0.00	0.00	PC
S/G FEED FL	0.00	0.00	0.00		KBH
GENERATOR OUTPUT	0.00	MW	COND PRESS	0.00	KBH
CST LEVEL	74.63	PC	SAMD FRESS	0.00	INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917		GPM	C10.00 00000		
SI FLW TRAIN A	180.49	GPM	CNMT PRESS	2.53	PSIG
SI FLW TRAIN B	179.49	GPM	CNMT TEMP	170.32	DEGF
RHR FLW TRAIN A	-99.99	GPM	CNMT HYDROGEN	0.00	PC
RHR FLW TRAIN B	0.00		RECIRC SUMP LVL	108.00	INCHES
CS FLOW TRAIN A	0.00	GPM	CNMT FLW WTR LVL	18.47	INCHES
CST FLOW TRAIN B	0.00	GPM			
RWST LEVEL		GPM			
A COLOR OF A LEVEL	41.32	PC			



BYRON STATION SPDS DISPLAY

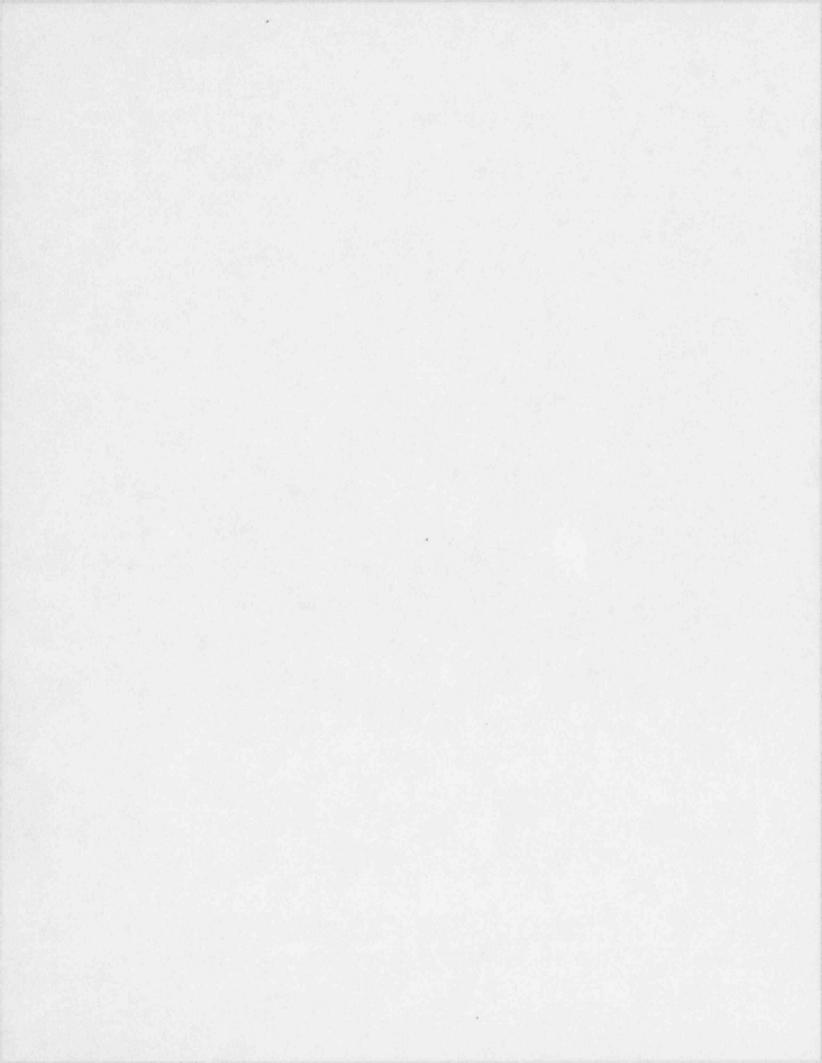
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Time = 1340 (370	,				
	·				PLANT STATUS-38
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
Rx POWER	0.00	PC	PRT LEVEL	76.44	PC
AUCT HI TAVE	-99.99	DEGF	PRT PRESSURE VCT LEVEL	5.75	PSIG
AVG 10HI CETS	-99.99	DEGF	CHARGING FLOW	0.00	PC
CORE SUB COOLING	-99.99	DEGF	LETDOWN FLOW	74.26	GPM
PRZR LEVEL	0.00	PC	RVLIS-HEAD	0.00	GPM
PRZR PRESSURE	-99.99	PSIG	RVLIS-PLENUM	0.00	PC
RCS WR PRESSURE	3.28	PSIG	AT DEC - E DEMORT	15.00	PC
W.R. RCS TEMP	LOOPLA	LOOPIB			
		POOLTD	LOOP1C	LOOP1D	UNITS
HOT LEG:	194.07	193.15	194.07	104 00	
COLD LEG:	178.36	179.88	178.36	194.07	DEGF
TAVE:	-99.99	-99,99	-99,99	178.36	DEGF
			- 99.99	-99.99	DEGF
SECONDARY	LOOPIA	LOODID			
	TOOLTH	LOOP1B	LOOPIC	LOOP1D	UNITS
SG PRESS	401.40	411.45	350,96	355 45	
S/G NR LEVEL	68.84	59.98	58.04	355.17	PSIG
S/G WR LEVEL	71.85	68.91	68.42	57.47	PC
S/G STM FL	0.00	0.00	0.00	68.26	PC
S/G FEED FL	0.00	0.00	0.00	0.00	KBH
GENERATOR OUTPUT	0.00	MW	COND PRESS	0.00	KBH
CST LEVEL	74.31	PC	COND FRESS	0.00	INHGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	Invene
CV FL1F1-917				VALUE	UNITS
		GPM	CNMT PRESS	2.14	PSIG
SI FLW TRAIN A	180.51	GPM	CNMT TEMP	161.11	DEGF
SI FLW TRAIN B RHR FLW TRAIN A	179.49	GPM	CNMT HYDROGEN	0.00	PC
	-99.99	GPM	RECIRC SUMP LVL	108.00	INCHES
RHR FLW TRAIN B CS FLOW TRAIN A	0.00	GPM	CNMT FLW WTR LVL	18.72	INCHES
CET STOW TRAIN A	0.00	GPM			THOUPS
CST FLOW TRAIN B RWST LEVEL	0.00	GPM			
RWDI LEVEL	41.32	PC			

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Time = 1350 (380	1				
	1				PLANT STATUS-39
PRIMARY	VALUE	UNITS	PRIMARY	VALUE	UNITS
Rx POWER	74.71	PC	PRT LEVEL	-0.00	PC
AUCT HI TAVE	0.00	DEGF	PRT PRESSURE VCT LEVEL	561.83	PSIG
AVG 10HI CETS	84.73	DEGF	CHARGING FLOW	-99.99	
CORE SUB COOLING	69.30	DEGF	LETDOWN FLOW	-99.99	
PRZR LEVEL	100.00	PC	RVLIS-HEAD	0.00	
PRZR PRESSURE		PSIG	RVLIS-PLENUM	2239.26 2247.48	
RCS WR PRESSURE	571.14	PSIG	THE REAL	2297.98	PC
W.R. RCS TEMP	LOOPLA	LOOPIB	LOOPIC	700010	
			DOOFIC	LOOPID	UNITS
HOT LEG:	571.14	571.14	571.19	552.46	
COLD LEG:	552.54	552.59		561.77	DEGF
TAVE :	561.81	561.83		980.40	DEGF
			502.04	900.40	DEGF
SECONDARY	LOOPLA	LOOPIB	LOOPIC	LOODID	
and second and second			LOOFIC	LOOP1D	UNITS
SG PRESS	980.21	980.09	981.03	66.00	5676
S/G NR LEVEL	66.00	66.00	66.00	60.73	PSIG
S/G WR LEVEL	60.75	60.76	60.67	0.00	PC
S/G STM FL	990.52	980.34	1063.93	992.50	KBH
S/G FEED FL	976.73	965.56	1047.64	303.17	KBH
GENERATOR OUTPUT	0.00	MK	COND PRESS	89 20	INHGA
CST LEVEL	0.10	PC		05.20	INNGA
ECCS	VALUE	UNITS	CONTAINMENT	VALUE	UNITS
CV FL1F1-917		GPM	Cham Banne		
SI FLW TRAIN A	108.36	GPM	CNMT PRESS	0.00	PSIG
SI FLW TRAIN B	0.00	GPM	CNMT TEMP	0.00	DEGF
RHR FLW TRAIN A	19.72	GPM	CNMT HYDROGEN	0.00	PC
RHR FLW TRAIN B	0.00	GPM	RECIRC SUMP LVL	0.00	INCHES
CS FLOW TRAIN A	0.00	GPM	CNMT FLW WTR LVL	93.59	INCHES
CST FLOW TRAIN B	0.00	GPM			
RWST LEVEL	0.00	PC			



Byron Nuclear Generating Station 1995 GSEP Exercise November 15, 1995

IN-PLANT MESSAGES

OSC CONTROLLER GUIDANCE

IN-PLANT CONTROL MESSAGES [OPERATIONS, MAINTE-NANCE]

- RADIATION MONITORING DATA
- PLANT AREA RADIATION LEVEL MAPS
- AIR SAMPLING DATA

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PORTAL MONITOR & FRISKER RESPONSE

FACILITY HABITABILITY

Byron Nuclear Generating Station 1995 GSEP Exercise November 15, 1995

CONTROLLER GUIDANCE : OSC

- 1. All procedures in force should be used by Participants.
- Do not direct Participants to complete forms or documentation. All documents which are prepared shall be marked "FOR GSEP EXERCISE USE ONLY".
- 3. Participants may not manipulate, perform work on, or otherwise affect active or operating plant systems or equipment.
- Participants must have procedures, blueprints, and tools available in order to complete work. Participants must establish, by contacting or going to Stores, that needed parts are available.
- 5. Whenever possible, participants should be allowed to return equipment to service in the time that is actually taken (ie. when working on mock-ups). When using actual plant areas and equipment to simulate work, controllers should attempt to determine realistic times for the completion of repairs. OSC team members should not be permitted to return to the OSC until the full repair time has elapsed. Equipment will not be returned to service until its repair time has elapsed. In order to maintain exercise fidelity, the Lead Facility Controller may be required to extend the repair time which is actually demonstrated by individual OSC teams.
- 6. Actual Out of Service cards will not be used in the plant.
- 7. Controllers who accompany teams from the OSC shall always stay with team members. Should it become necessary to split an OSC team, additional controllers may be needed. If an OSC team leaves an area due to personnel safety concerns, or as part of a station assembly, the controller must remain with that team until returning to the OSC.
- 8. If evacuation of OSC personnel becomes appropriate during the exercise, participants should be directed to formulate an appropriate evacuation plan. Unless directed otherwise by the Lead Facility Controller, an actual evacuation of the OSC should not be performed.
- 9. Refer to information in the Controllers Manual for information pertaining to area radiation levels, portal monitor performance, personnel frisker performance, air sampling results, contamination/smear results, and facility habitability.

BYRON 1995 GSEP EXERCISE NOVEMBER 15, 1995

IN-PLANT CONTROL MESSAGES

TIME: 0730 - 1430 (T +000 - T -420)

ISSUED TO: ALL PARTICIPANTS

PREREQUISITE: NONE

MESSAGE

Attached is habitability information throughout the exercise for the onsite Emergency Response Facilities (Simulator Control Room, TSC, OSC) and for the Main Access Facility (Guardhouse).

IP-1A

ISSUED TO:

RPT PERFORMING HABITABILITY SURVEYS CP SURVEY RESULTS

MESSAGE

ALL DATA IS IN "mR/h", Data for Window Open and Closed

TIME	CONTROL ROOM	TSC	osc	GATE HOUSE
0730 - 1158 (T+000 - 268)	< 1	< 1	< 1	< 1
1159 - 1212 (T+269 - 282)	< 1	< 1	1.0	< 1
1213 - 1227 (T+282 - 297)	< 1	< 1	1.0	< 1
1228 - 1242 (T+298 - 312)	< 1	< 1	1.0	< 1
1243 - 1257 (T+313 - 327)	< 1	< 1	1.0	< 1
1258 - 1312 (T+328 - 342)	< 1	< 1	< 1	< 1
1313 - 1327 (T+343 - 357)	< 1	< 1	< 1	< 1
1328 - 1342 (T+358 - 372)	< 1	< 1	< 1	< 1
1343 - 1400 (T+373 - 390)	< 1	< 1	< 1	< 1

ISSUED TO:

RPT PERFORMING HABITABILITY SURVEYS GM SURVEY RESULTS (BACKGROUND VALUES)

MESSAGE

ALL DATA IS IN "cpm"

TIME	CONTROL ROOM	TSC	OSC	GATE HOUSE
0730 - 1158 (T+000 - 268)	200	200	200	200
1159 - 1212 (T+269 - 282)	250	450	4300	300
1213 - 1227 (T+282 - 297)	210	410	4050	250
1228 - 1242 (T+298 - 312)	200	350	3900	210
1243 - 1257 (T+313 - 327)	200	310	3450	200
1258 - 1312 (T+328 - 342)	200	250	3350	200
1313 - 1327 (T+343 - 357)	200	210	3000	200
1328 - 1342 T+358 - 372)	200	200	2800	200
343 - 1400 T+373 - 390)	200	200	2700	200

BYRON 1995 GSEP EXERCISE NOVEMBER 15, 1995

IN-PLANT CONTROL MESSAGES

TIME: 0730 - 1430 (T +000 - t -420)

ISSUED TO: ALL PARTICIPANTS

PREREQUISITE: NONE

MESSAGE

Attached is operability information for all Personnel Contamination Monitors (PCMs, "portal monitors") and personnel friskers (GM pancakes) throughout the exercise. Participants should assume that all monitoring equipment is OPERABLE unless directed otherwise by Controllers.

IP-2

ISSUED TO: IN-PLANT PERSONNEL

PREREQUISITE:

USING IPM (PM7 PORTAL OR WHOLE BODY) OR FRISKER

MESSAGE

TIME: 0730 - 1158 (T+000 - T+268)	
PORTAL MONITOR (PM7) WHOLE BODY FRISKER (IPM7) GM HAND FRISKER	All Locations : monitors are AVAILABLE

TIME: 1159 - 1400 (T+269 - T+390)	
PORTAL MONITORS : #217 @ 364 Aux #241 @ 383 Aux #244 @ 346 Aux #138 @ 401 Aux Exit #186 @ 401 Aux Exit #188 @ 401 Aux Exit #258 @ 401 Aux Exit #145 @ 401 Aux Exit #146 @ 401 Aux Exit #146 @ 401 Aux Exit #224 @ 426 FHB #242 @ 426 FHB	Inoperative (High Background Fault)

GM Frisker Locations	1158 - 1259 (T+268 - 329)	1300 - 1400 (T+330 - 390)
426 Aux and Above	120,000 cpm	87,000 cpm
401 Aux	45,000 cpm	30,700 cpm
383 Aux	47,000 cpm	33,500 cpm
364 Aux	51,000 cpm	36,00 cpm
364 Aux : Area 5 / PP	Frisker : Off Scale High	Frisker : Off Scale High
346 Aux	43,000 cpm	31,000 cpm
330 Aux	3900 cpm	2800 cpm
F.H.B.	Frisker : Off Scale High	Frisker : Off Scale High

BYRON 1995 GSEP EXERCISE NOVEMBER 15, 1995

IN-PLANT CONTROL MESSAGES IP-3

TIME: 0730 - 1430 (T +000 - T +420)

ISSUED TO: ALL PARTICIPANTS

PREREQUISITE: NONE

MESSAGE

Attached is information for use in providing frisker results for plant smears (contamination surveys) and in-plant air sampling cartridges throughout the exercise. Data is supplied in NET (background subtracted) form.

CONTROLLER NOTE:

Results may only be provided at "operable" frisker instruments. Net results which are not greater than 10% of the background level should be reported as equal to the background value.

ISSUED TO: CADIATION PROTECTION TECHNICIAN COLLECTING IN-PLANT SMEARS AND/OR AIR SAMPLES

MESSAGE

In-Field GM Frisker Results for Collected Samples : Values are given as "net" (counts about background)

TIME: 0730 - 1158 (T+000 - T+2	268*
LOCATION: ALL LOCATIONS	ALL SMEAR AND AIR SAMPLE RESULTS ARE "AS READ" (0 cpm)

TIME: 1159 - 1400 (T+269 - T+390)	
LOCATION: ALL TURBINE BUILDING LO-	ALL SMEAR AND AIR SAMPLE RESULTS
CATIONS	ARE "AS READ" (0 cpm)

TIME:	1159 - 1400 (T+269 - T+390)	
LOCATION:	Aux Building elevations 383, 364, 346 and 330	ALL SMEAR AND AIR SAMPLE RESULTS ARE "AS READ" (0 cpm)

TIME:	1159 - 1400 (T+269 - T+390)	
LOCATION:	Aux Building elevations 401 & 426	Smear results = 140 cpm Air sample cartridges (30 ft ³ vol) = 175 cpm

TIME: 1159 - 1400 (T+269 - T+39	90)
LOCATION: Fuel Handling Building	Smear results = 60,000 cpm Air sample cartridges (30 ft ³ vol) = 30,000 cpm

BYRON 1995 GSEP EXERCISE NOVEMBER 15, 1995

IN-PLANT CONTROL MESSAGES

TIME: 0730 - 1200 (T +000 - T +270)

ISSUED TO: MECHANICAL MAINTENANCE

PREREQUISITES: DISPATCHED TO INVESTIGATE THE UNIT 1 PERSONNEL HATCH

MESSAGE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Examines the containment personnel hatch.	The outer door appears normal but will not close or latch.
Examines the locking mechanism.	A key appears to have sheared on a locking gear.
Participant begins repairs as directed by nuclear work request (NWR) or OSC.	The door is successfully dis-assembled.
Participant checks stores for availability of replacement gear(s).	A replacement gear for the broken part(s) is not available in Stores.

CONTROLLER NOTE(S): 1.

- Any feasible repair path may be initiated but a repair of the door cannot be permitted prior to 1200 hours (T +270).
- Controller should be aware of extremely high dose rates present in this area from 1200 to 1330 hours (T +270 - T +360) due to the release.

IN-PLANT CONTROL MESSAGES

TIME: 0730 - 1400 (T +000 - T +390)

ISSUE TO: MM WORK ANALYST

PREREQUISITES: DISPATCHED TO INVESTIGATE INNER FUEL DOOR HANDLING BUILDING

MESSAGE

PARTICIPANT ACTION (S)	RESULTS OR OBSERVATIONS
Examines inner roll up door.	The door is in the open position, at a height of approximately twenty (20) feet.
Attempts to close door.	The door is bound and will not move downward or upward.
Examines door track.	The track appears normal on bcth sides (within 8-10 feet of the floor).
Examines door track at 20'.	The track is twisted at a height of between 21 and 22 feet. (Requires a means to get to the required height in order to closely examine the track).

CONTROLLER NOTE(S): 1.

- Any feasible repair path may be initiated but a repair of the door cannot be permitted prior to 1200 hours (T+270).
- Controller should be aware of extremely high dose rates present in this area from 1200 to 1330 hours (T+270 - T+360) due to the release.

IN-PLANT CONTROL MESSAGES IP-6

TIME: 0810 - 0930 (T +040 - T +120)

- ISSUED TO: EQUIPMENT OPERATOR AT MAIN POWER TRANSFORMER (REACTOR BUILDING EXTERIOR 1 EAST/1 WEST)
- PREREQUISITE: DISPATCHED TO PERFORM 1-BOS MP-1 FOLLOWING MAIN TURBINE TRIP

MESSAGE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Obtain procedure 1 BOS MP-1	Procedure is obtained.
Simulate performance of 1 BOS MP-1 Step F.2.	All actions taken per procedure function properly.
At Step F.2.d. install jumpers.	Jumper(s) install successfully.
At Step F.2, reads temperature gauge.	The temperature is greater than 25°C. 1. The (BOP is completed at this time).

CONTROLLER NOTE(S):

IN-PLANT CONTROL MESSAGES

TIME: 0810 - 0900 (T +040 - T +090)

ISSUED TO: EQUIPMENT AT 345 KV SWITCHBOARD

PREREQUISITE: DISPATCHED FOLLOWING REACTOR TRIP

MESSAGE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Equipment obtains IBOPSY-5 & BAP 330-9T1.	Results are as described by procedures
Simulate Step F.6 for MPT disconnects,	
Step F.7 for MPT disconnects,	
Step F.8 for MPT disconnects.	

CONTROLLER NOTE(S): 1.

If required, close MPT ground disconnect per load dispatcher instructions.

IN-PLANT CONTROL MESSAGES IP-8

TIME: 0810 - 0900 (T +040 - T +090)

ISSUED TO: EQUIPMENT OPERATOR AT AUX. ELECTRIC ROOM

PREREQUISITE: DISPATCHED TO RESET THE GENERATOR TRIP RELAY(S) 8661A/B FOLLOWING THE MAIN TURBINE TRIP

MESSAGE

PARTICIPANT ACTION(5)	RESULTS OR OBSERVATIONS
Reset 86G1A at 1PA23J	86G1A is reset at 1PA.
Reset 86G1B at 1PA23J	86G1B is reset at 1PA.
Notifies are reset U-1 that 86G1A/B	Acknowledges radio transmission

CONTROLLER NOTE(S):

IN-PLANT CONTROL MESSAGES

TIME: 0810 - 0900 (T +040 - T +090)

ISSUED TO: U1 NSO AND EQUIPMENT ATTENDENT AT FEEDWATER PUMP

PREREQUISITE: DISPATCHED FOLLOWING REACTOR TRIP

MESSAGE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Obtain 1BOP FW-2a	Procedure is obtained.
Simulate F.1.a.3-8	Results are as described by procedure.
If required, do BOP FW-9 prerequisite C.4.	Prerequisite C.4 is performed satisfactorily.

CONTROLLER NOTE(S):

IN-PLANT CONTROL MESSAGES IP-10

TIME: 0810 - 0900 (T +040 - T +090)

ISSUED TO: EQUIPMENT ATTENDANT AT U1 FEEDWATER PUMPS

PREREQUISITE: DISPATCHED TO START STARTUP FEEDWATER PUMP FOLLOWING REACTOR TRIP

MESSAGE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Obtain 1BOP-FW-5A	EA obtains 1BOP-FW-5A.
Simulates performance step F.3 F.13	Steps are satisfactory per 1BOP-FW- 5A.

CONTROLLER NOTE(S):

IN-PLANT CONTROL MESSAGES

TIME: 0810 - 0900 (T +040 - T +090)

- ISSUED TO: EQUIPMENT ATTENDANT AT CENTRIFUGAL CHARGING PUMP
- PREREQUISITE: DISPATCHED FOLLOWING PUMP STARTUP FROM CONTROL ROOM

MESSAGE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Arrives at Centrifugal charging pump.	Area appears normal.
Equipment Attendant checks oil levels.	Oil levels are "as read".
Equipment Attendant checks equipment condition.	Equipment condition is satisfactory/normal.

CONTROLLER NOTE(S):

IN-PLANT CONTROL MESSAGES IP-12

TIME: 0810 - 0900 (T +040 - T +090)

ISSUED TO: EQUIPMENT ATTENDANT (EA) AT CONDENSATE/CONDENSATE BOOSTER PUMP

PREREQUISITE: DISPATCHED FOLLOWING REACTOR TRIP

MESSAGE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Obtain 1BOP CD/CB-2	Equipment attendant obtains 1BOP CD/CB-2
Simulate performing 1BOP CD/CB-2 Step 7	1BOP CD/CB-2 Step 7 is performed per procedure.

CONTROLLER NOTE(S):

IN-PLANT CONTROL MESSAGES

TIME: 0810 - 0900 (T +040 - T +090)

- ISSUED TO: EQUIPMENT ATTENDANT (EA) AT HOGGER (VACUUM PUMP)
- PREREQUISITE: DISPATCHED TO START/ALIGN HOGGER FOLLOWING REACTOR TRIP

MESSAGE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Obtain 1BOP OG-1	EA obtains 1BOP OG-1
Simulate performance of Step F.2	Results are per procedure.
If needed, performs step F.4 to U-1	

CONTROLLER NOTE(S):

IN-PLANT CONTROL MESSAGES

TIME: 0810 - 0900 (T +040 - T +090)

- ISSUED TO: EQUIPMENT ATTENDANT (EA) AT STEAM JET AIR EJECTORS (SJAE)
- PREREQUISITE: DISPATCHED TO SHUT DOWN/ISOLATE STEAM JET AIR EJECTORS (SJAEs) FOLLOWING MAIN TURBINE TRIP

MESSAGE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Obtain 1BOP OG-5.	EA obtains procedure.
Simulate performing Steps F.2.b F.2.e.	Steps are completed as described by the procedure.

CONTROLLER NOTE(S):

IN-PLANT CONTROL MESSAGES

TIME: 0810 - 0900 (T +040 - T +090)

ISSUED TO: EQUIPMENT ATTENDANT (EA) AT THE HEATER DRAIN PUMP

PREREQUISITE: DISPATCHED FOLLOWING THE REACTOR TRIP

MESSAGE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Obtain procedure 1BOP HD-2.	EA obtains procedure.
Simulate Step F.1.f.	Steps F.1.f are performed per procedure.
Simulate Step F.2.e for 2nd pump shutdown.	If required F.2.e. are performed per procedure.

CONTROLLER NOTE(S):

IN-PLANT CONTROL MESSAGES IP-16

TIME: 0810 - 0900 (T +040 - T +090)

- ISSUED TO: OUTSIDE EQUIPMENT ATTENDANT AT CIRC WATER PUMP HOUSE
- PREREQUISITE: DISPATCHED TO VERIFY LEVEL FOLLOWING REACTOR

MESSAGE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Obtain 1BOP CW-25	EA obtains 1BOP-CW-25
Simulate Step(s) F.2.L.	Tower conditions are normal for the current conditions.

CONTROLLER NOTE(S):

IN-PLANT CONTROL MESSAGES

TIME: 0830 - TERMINATION (T+060 - T+400)

ISSUED TO: INSTRUMENT MAINTENANCE AT MAIN TURBINE CONTROL

PREREQUISITE: DISPATCHED TO INVESTIGATE CAUSE OF THE FAILURE TO AUTO-TRIP THE REACTOR

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
SSPS Test is initiated by System Engineer- ing and Operations	a. Test results are as expected UNTIL the step where a Turbine Trip signal is simulated.
	b. The Reactor Trip signal is not rec- eived (1PA09J and 1PA10J).
Replace A403 Card	The card is replaced.
Perform SSPS Test with new A403 card.	The Reactor Trip signal is not received again (1PA09J and 1PA10J).
Participant examines wiring.	Finds a jumper in the P-8 module is twisted and is not correctly seated (loose on one end).
Participant replaces jumper.	The jumper is replaced.
Perform SSPS Test with new P-8 jumper.	ALL test results are as expected.

IN-PLANT CONTROL MESSAGES IP-18

TIME: 0830 - TERMINATION (T+060 - T+400)

ISSUED TO: INSTRUMENT MAINTENANCE AT THE TURBINE THRUST BEARING

PREREQUISITE: DISPATCHED TO INVESTIGATE THE TURBINE TRIP

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Participant walks down the Turbine area.	Oil is observed on the floor and on pres- sure switch 1PS-T0044.
Remove cover on 1PS-T0044.	Observe oil on all switch components.
Measure switch contacts.	All 3 switches indicate a TRIP SAFE condi- tion.
Examine switch for the source of the oil.	Locate a small hole (tear) in the switch diaphram.

IN-PLANT CONTROL MESSAGES IP-19

TIME: 0840 - TERMINATION (T+070 - T+400)

ISSUED TO: INSTRUMENT MAINTENANCE IN CONTROL ROOM

PREREQUISITE: DISPATCHED TO INVESTIGATE HIGH SIGNAL ON AREA RADIATION MONITOR 0-AR-055 (FUEL HANDLING BUILDING)

MESSAGE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Checks the status of RM-11 Grid 4 and monitor 0-AR-055.	a. Grid 4 is RED and the display for 0- AR-055 is RED.
	b. The RM-11 appears to be function- ing correctly.
Examine the Control Room Alarm Typer printout.	Find the following alarm entries :
	0828 Check Source Test Requested 0828 Check Source Energized 0829 Check Source Deenergized
Select RM-23 Channel 018 for 0-AR-055.	The observed count rate is higher than normal (about 1000 counts per second).
Perform Check Source Test for 0-AR-055.	a. Find the following Alarm Typer mes- sages :
	Check Source Test Requested Check Source Energized
	b. The observed count rate on RM-23 channel 018 does not change.
Observe the RM-23 channel for 0-AR-055 after the completion of the 1-minute check source test.	The observed count rate on RM-23 channel 018 does not change.

CONTROLLER NOTE : 1.

For a complete description of the RM-11 display results, see RM-11 data in the Control Room Section (#4).

IN-PLANT CONTROL MESSAGES IP-20

TIME: 0840 - TERMINATION (T+070 - T+400)

ISSUED TO: ELECTRICAL MAINTANENCE AT THE 1A FHB BOOSTER FAN

PREREQUISITE: DISPATCHED TO INVESTIGATE THE FAILURE OF THE FAN

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Enter fan area.	Fan appears normal.
Mechanic meggers fan motor from switch gear.	The motor meggers as "short to ground".
Mechanic splits power leads from the motor and meggers	The cable meggers as "short to ground".

IN-PLANT CONTROL MESSAGES

TIME: 0840 - 0930 (T +070 - T +120)

ISSUED TO: EQUIPMENT ATTENDANT (EA) AT FUEL HANDLING BUILDING BOOSTER FAN BREAKERS

PREREQUISITE: DISPATCHED PER ANNUNCIATOR 0-34-C8 RESPONSE

MESSAGE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
EA arrives at MCC 131 x 5-E-11	The ON/OFF lever is in the TRIPPED position.
EA resets the MCC.	Provide one result as appropriate:
IF THE FAN IS IN AFTER/TRIP POSITION	The breaker closes and immediately trips open.
IE THE FAN IS IN PULL-TO-LOCK POSITION	The breaker closes and stays closed.
EA has Unit 1 NSO restart the fan	The breaker trips open again.

CONTROLLER NOTE(S):

IN-PLANT CONTROL MESSAGES

TIME: 1000 - 1100 (T +150 - T +210)

ISSUED TO: EQUIPMENT OPERATOR AT UNIT 1A/B DIESEL GENERATORS

PREREQUISITE: DISPATCHED TO VERIFY PROPER OPERATION FOLLOWING AUTO-START SIGNAL

MESSAGE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Obtain 1BOP DG-11	Procedure is obtained.
Simulate Step F.2.d	All indications are normal following the auto-start.
Simulate Step F.4.o	

CONTROLLER NOTE(S): 1.

The 1A/B Diesels receive a valid auto start signal following the Unit 1 Safety Injection.

IN-PLANT CONTROL MESSAGES IP-23

TIME: 1000 - 1030 (T +150 - T +180)

ISSUED TO: EQUIPMENT OPERATOR AT UNIT 1A/B DIESEL GENERATORS

PREREQUISITE: DISPATCHED TO SECURE DIESELS PER BEP-1 STEP 11.C

MESSAGE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Obtain 1BOPD/G-1	Procedure is obtained.
Simulate Steps F.1 thru F.12	All steps are accomplished as expect
Notify Unit 1 NSO	

CONTROLLER NOTE(S):

IN-PLANT CONTROL MESSAGES IP-24

TIME: 1000 - 1100 (T +150 - T +210)

ISSUED TO: EQUIPMENT ATTENDANT AT 1A RHR PUMP

PREREQUISITE: DISPATCHED FOLLOWING 1A RHR FAILURE TO AUTOSTART DURING SAFETY INJECTION

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
1. Enters U1 CS/RHR Room.	Hears 1B RHR Pump and 1A CS Pump running.
 Participant reads 1A RHR suction pressure gauge. 	Suction pressure reads 30 psig.
3. Participant reads 1A RHR discharge pressure.	Discharge pressure reads 20 psig.
4. Patricipant examines 1A RHR Pump.	A. Pump casing is cold to the touch. B. The pump appears normal.

IN-PLANT CONTROL MESSAGES IP-25

TIME: 1015 - TERMINATION (T+165 - T+400)

ISSUED TO: INSTRUMENT MAINTENANCE AT THE CONTROL ROOM

PREREQUISITE: DISPATCHED TO INVESTIAGE THE FAILURE OF THE N31 SOURCE RANGE MONITOR FAILURE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Examine Control Room panel(s).	Finds the following conditions :
	a. The "LOSS OF DETECTOR VOLTS" alarm is up.
	b. The alarm indicator light is ON for detector N31 and is OFF for detector N32.
Examine condition of the detector fuses.	The Instrument and Control power fuse lights are LIT for both detectors N31 and N32 drawers.
Inspect the N32 internals.	a. There is a strong odor of burned materials.
	b. A dark colored resin is observed on the High Voltage Power Supply.
Participant replaces and tests the High Voltage Power Supply.	Detector N31 is returned to service.

IN-PLANT CONTROL MESSAGES IP-26

TIME: 1020 - TERMINATION (T+170 - T+400)

ISSUED TO: ELECTRICAL MAINTENANCE AT 1A RHR PUMP

PREREQUISITE: DISPATCHED TO INVESTIGATE THE PUMP FAILURE TO START DURING THE MANUAL SAFETY INJECTION

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Mechanic troubleshoots 1A RHR pump motor.	All interlocks are MADE-UP.
Mechanics removes pump breaker from the cubicle.	The breaker racks out hard.
Mechanics performs visual inspection of the pump breaker.	a. Observes that housing contact pins are out of alignment.
	b. Observes that the housing switch is cracked and damaged.
Mechanic replaces pump breaker and tests the motor.	The 1A RHR Pump operates normally and can be returned to service.

IN-PLANT CONTROL MESSAGES IP-27

TIME: 1020 - TERMINATION (T+170 - T+390)

- ISSUED TO: MECHANICAL MAINTENANCE AT THE FUEL HANDLING BUILDING TRAIN BAY OUTER ROLL UP DOOR
- PREREQUISITE: DISPATCHED TO INVESTIGATE AND/OR REPAIR DAMAGE TO THE OUTER TRACKWAY DOOR

MESSAGE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Examines Outer Trackway Door.	The Outer Door is pushed off the track on the north side of the door, to a height of about ten (10) feet. There is a gap of between five and ten (5-10) inches between the door and track. Several door panels are cracked.
Mechanic attempts to raise the door.	The door will raise to a height of about eight (8) inches.
Mechanic attempts to lower the door (after first opening).	The door will not lower.
Mechanic attempts to use plastic and tape to cover the opening.	The tape will not hold the weight of the plastic that is used (the hole IS NOT covered).

CONTROLLER NOTE(S): 1.

- Any feasible repair path may be initiated but a repair of the door cannot be permitted prior to 1200 hours (T +270).
- Controller should be aware of extremely high dose rates present in this area from 1200 to 1330 hours (T +270 - T +360) due to the release.

IN-PLANT CONTROL MESSAGES

TIME: 1110 - 1400 (T +220 - T +390)

ISSUED TO: MECHANICAL MAINTENANCE AT THE 1B DIESEL GENERATOR PREREQUISITES: DISPATCHED TO REPAIR DIESEL AND RETURN TO SERVICE

MESSAGE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Enters Diesel Generator Room	 The room is quiet (no running generator). Local alarm panel is flashing.
	3. Generator appears normal.
Examines 1B Diesel Generator	All equipment on the Generator appears to be NORMAL, except for the air system.
Examines the starting air line	 The air inlet to the engine appears to be blocked.
	2. The Over-Speed Shutdown butterfly valve is not latched.
Latch Butterfly Valve	Valve will not stay latched.

CONTROLLER NOTE(S): 1.

Any feasible repair path may be initiated and the Diesel Generator repaired and returned to service.

IN-PLANT CONTROL MESSAGES IP-29

TIME: 1120 - TERMINATION (T+230 - T+400)

ISSUED TO: ELECTRICAL MAINTENANCE AT BUS 142

PREREQUISITE: DISPATCHED TO INVESTIGATE BUS TRIP

MESSAGE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Participant enters the Bus 142 room.	Observes an obvious, pungent, odor of electrical burning (no smoke or fire is evident).
Mechanic meggers Bus 142.	The bus meggers as shorted and ground- ed.
Mechanics racks out breakers on Bus 142 to inspect.	All breakers except Breaker ACB-1421 are undamaged. Breaker ACB-1421 is hard to rack out.
Perform visual inspection of the Breaker 1421 cubicle.	The bottles are cracked and burnt.

CONTROLLER NOTE : Electrical Maintenance is permitted to change the damaged breaker but will be unable to return Bus 142 to service prior to 1400 (T+400).

IN-PLANT CONTROL MESSAGES

TIME: 1155 - 1300 (T +275 - T +330)

ISSUED TO: EQUIPMENT ATTENDANT AT CLOSED COOLING VALVE

PREREQUISITE: DISPATCHED TO CLOSE 1CC9412B VALVE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Enters area.	Area appears normal.
Close valve 1CC9412B.	Valve closes.

IN-PLANT CONTROL MESSAGES IP-31

TIME: 1200 - 1300 (T +280 - T +340)

ISSUED TO: OPERATOR AT REACTOR WATER STORAGE TANK (RWST)

PREREQUISITE: DISPATCHED TO CLOSE 1CV112E

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Participant enters the RWST area.	The area appears normal.
Participant manually closes valve 1CV112E.	The valve closes/indicates as closed.

IN-PLANT CONTROL MESSAGES

TIME: 1200 - 1400 (T+278 - T+390)

1.

ISSUED TO: OPERATOR OR MECHANIC AT THE 007A CONTAINMENT SPRAY

PREREQUISITE: DISPATCHED TO MANUALLY OPEN VALVE

MESSAGE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Participant arrives at valve.	Valve appears normal.
Participant turns valve.	Valve will turn.
Participant checks flow through the valve.	There is no (zero) flow through the valve.

CONTROLLER NOTE:

Continuing attempts to open the valve manually will not result in flow; even after the valve is in the full open position there will be no containment spray activation.

2

1

IN-PLANT CONTROL MESSAGES

TIME: 1230 - 1245 (T +300 - T +315)

ISSUED TO: OUTSIDE EQUIPMENT ATTENDANT (EA) AT THE RIVER SCREEN HOUSE

PREREQUISITE: DISPATCHED TO INVESTIGATE THE HIGH DIFFERENTIAL PRESSURE ALARM ON THE TRAVELING SCREENS

MESSAGE

PARTICIPANTS ACTION(S)	RESULTS OR OBSERVATIONS
Operator enters River Screen House.	The Travelling Screens are covered with debris (tree branches and leaves, etc.) and are not moving. All other equipment appears to be normal. The river appears to be unusually high and full of debris. The trash cart appears to be full.
Operator reads the differential pressure on the travelling screens.	The pressure is 15 inches of water.
Operator examines the travelling screens.	The screens appear to be bound.
Operator examines the screen motor.	The motor is operating and appears to be normal.
Operator clears the travelling screens.	The screens are cleared. The screens remain bound and do not move.

CONTROLLER NOTE(S):

IN-PLANT CONTROL MESSAGES IP-34

TIME: 1245 - TERMINATION (T +345 - T +390)

ISSUED TO: MECHANICAL MAINTENANCE AT RIVER SCREEN HOUSE

PREREQUISITE: DISPATCHED TO REPAIR PIN ON TRAVELLING SCREEN

MESSAGE

PARTICIPANT ACTION(S)	RESULTS OR OBSERVATIONS
Mechanic removes cover(s) on the travelling screens.	The screen motor is operating and is turning the screens but the shear pin has broken.
Mechanic contacts Stations/Stores for replacement shear pin.	A replacement pin is available if one can be located at the Station.
Mechanic replaces shear pin.	Shear pin is replaced. (Participants may need to show availability of specialized tools and/or equipment, such as hoists in order to make repairs to the shear pin and restore the travelling screens).

CONTROLLER NOTE(S):

IN-PLANT CONTROL MESSAGES IP-35

CONTROLLER MAPS:

IN-PLANT AREA RADIATION LEVELS

		Contraction in the second second second		No. of Concession, Name of Street, or other	TILLE			Contractory and the second		
All values are both open and closed window except as indicated	PRIOR TO 1158	1158 TO	1213 TO	1228 TO	1243 TO	1258 TO	1313 TO	1328 TO	1343 TO	1358 TO
426 AUX BLDG AND ABOVE	1	1212	1227	1242	1257	1312	1327	1342	1357	1412
401 AUX BLDG	AS RD	31.00	29.14	28.21	24.18	21.70	21.08	20.15	19.53	19.22
and the second state of the se	AS RD	11.00	10.34	10.01	8.58	7.70	7.48	7.15	6.93	6.82
383 AUX BLDG	AS RD	12.00	11.28	10.92	9.36	8.40	8.16	7.80	7.56	7.44
364 AUX BLDG	AS RD	13.00	12.22	11.83	10.14	9.10	8.84	8.45	8.19	8.06
364 AREA 5 & PP ROOMS	AS RD	130.00	122.20	118.30	101.40	91.00	88.40	84.50	81.90	80.60
346 AUX BLDG	AS RD	11.00	10.34	10.01	8.58	7.70	7.48	7.15	6.93	6.82
330 AUX BLDG	AS RD	1.00	0.94	0.91	0.78	0.70	0.68	0.65	0.63	0.62
FHB ALL ELEVATIONS (WC)	AS RD	2400.00	1650.00	1050.00	712.50	525.00	487.50	412.50	375.00	1
FHB INTERIOR WIN OPEN	AS RD	2850.00	1959.38	1246.88	846.09	623.44	578.91	489.84	445.31	300.00
WEST TO SYARD (WIN CLS)	AS RD	1600.00	1100.00	700.00	475.00	350.00	325.00	275.00	The second s	356.25
OUTSIDE SYARD WIN OPEN	AS RD	1900.00	1306.25	831.25	564.06	415.63	385.94	326.56	250.00	200.00
OUTSIDE - ALL OTHER (WC)	AS RD	AS RD	AS RD	AS RD	AS RD	AS RD	AS RD		296.88	237.50
OTHER OUTSIDE WIN OPEN	AS RD	ASRD	ASRD	ASRD	AS RD	ASRD	AS RD	AS RD	AS RD	AS RD
TURB BLDG ALL ELEV	AS RD	AS RD	AS RD	ASRD	AS RD	AS RD	Statement and the second second	ASRD	AS RD	AS RD
OSC & SERVICE BLDG	AS RD	1.00	0.94	0.91	0.78	0.70	ASRD	AS RD	AS RD	AS RD
TECH SUPPORT CENTER	AS RD	AS RD	ASRD	AS RD			0.68	0.65	0.63	0.62
RAD WASTE VR	ASRD	1.00	0.94		ASRD	AS RD	AS RD	AS RD	AS RD	AS RD
CONTROL ROOM/SIM	AS RD	ASRD		0.91	0.78	0.70	0.68	0.65	0.63	0.62
SECURITY BLDG	1		AS RD	AS RD	AS RD	AS RD	AS RD	AS RD	AS RD	ASRD
	AS RD	AS RD	AS RD	ASRD	AS RD	AS RD	AS RD	AS RD	AS RD	AS RD
CNMT RAD (AVERAGE)	7000	100000	94000	91000	78000	70000	68000	65000	63000	62000

ALL READINGS ARE IN MREM/HR

"AS RD" = AS READ

1995 In Exercise November 15, 1995

IN-PLANT RAL ION LEVELS

Stowers and a store					TIME				The second s	
BACKGROUND COUNTS PER MIN	PRIOR TO 1158	1158 TO 1212	1213 TO 1227	1228 TO 1242	1243 TO 1257	1258 TO 1312	1313 TO	1328 TO	1343 TO	1358 TO
426 AUX BLDG AND ABOVE	AS RD	135000	125000	123000	105000	The same of the sub-state of the sub-sta	1327	1342	1357	1412
401 AUX BLDG	AS RD	48000	45000	43500		94000	92000	88000	85000	83500
383 AUX BLDG	ASRD	52000	50000		37000	33500	32500	31000	30000	30000
364 AUX BLDG	ASRD	57000		48000	41000	36500	35500	34000	33000	32000
364 AREA 5 & PP ROOMS	ASRD	1	53000	51500	45000	40000	38500	36500	35500	35000
346 AUX BLDG	1	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
330 AUX BLDG	ASRD	48000	45000	43500	37000	33500	32500	31000	30000	30000
FHB ALL ELEVATIONS	AS RD	4350	4100	4000	3400	3050	3000	2800	2750	2700
	ASRD	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
OUTSIDE WEST TO SYARD	ASRD	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
OUTSIDE - ALL OTHER	ASRD	AS RD	AS RD	AS RD	ASRD	AS RD	AS RD	ASRD	AS RD	AS RD
TURB BLDG ALL ELEV	ASRD	AS RD	AS RD	ASRD	ASRD	AS RD				
OSC & SERVICE BLDG	AS RD	4350	4100	4000	3400	3050	2950	2800	2750	2700
TECH SUPPORT CENTER	AS RD	ASRD	AS RD	ASRD	ASRD	AS RD	ASRD	ASRD	AS RD	
RAD WASTE VR	AS RD	4350	4100	4000	3400	3050	2950	2800		AS RD
CONTROL ROOM/SIM	AS RD	AS RD	ASRD	ASRD	ASRD	ASRD			2750	2700
SECURITY BLDG	ASRD	ASRD	ASRD	ASRD	ASRD	ASRD	ASRD	ASRD	AS RD	AS RD
			nono 1	no no 1	AGRO	ASRU	AS RD	ASRD	ASRD	AS RD

"AS RD" = AS READ

"OSH" = OFF SCALE HIGH

IN-PLANT CONTROL MESSAGES

Drill and Exercise Dosimetry Worksheet

This worksheet may be used by exercise controllers to estimate and track participant's cumulative doses. Doses are assigned on the basis of average exposure rate over a ten minute period, and summed for all exposure periods:

Exposure mR/h	Dose mrem	Exposure mR/h	Dose mrem	Exposure mR/h	Dose mrem
1	0.2	25	4.2	300	50
5	0.8	50	8.3	400	67
10	1.7	75	13	500	83
15	2.5	100	17	600	100
20	3.3	200	33	700	117
		USE SUM 1	MIN DOSE S	UM	
			0 MIN DOSE S	UM	
			0 MIN DOSE S	UM	
osimeter Alarm AME			0 MIN DOSE S	UM	
ob: osimeter Alarm AME TARTING DOS ME		mR	O MIN DOSE S		
osimeter Alarm AME TARTING DOS		mR			

Byron Nuclear Generating Station 1995 GSEP Exercise November 15, 1995

CHEMISTRY INFORMATION

CONTROLLER GROUND RULES

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- INITIAL CONDITIONS / BASELINE CHEMISTRY
- HIGH RADIATION SAMPLING SYSTEM RESULTS
 - + REACTOR COOLANT SYSTEM
 - + REACTOR DRYWELL
- GRAB SAMPLE RESULTS
 - OTHER CHEMISTRY RESULTS

Byron 1995 GSEP Exercise November 15, 1995

CONTROL MESSAGE CHEM-1

TIME : 0730 - As Requested (T+000 - T+390)

ISSUED TO : UNIT 1 CHEMIST or TSC CHEMISTRY DIRECTOR

PREREQUISITES : HISTORICAL UNIT 1 DATA IS REQUESTED

MESSAGE

Attached is the counting room chemistry report for the power change RCS sample collected at 0320 (T-250) on November 15th.

UNIT 1 REACTOR COOLANT LIQUID (UNDILUTED)

CONFIGURATION FILE \$1\$DIA1:[CRU.ARCHIVE_UNAPP]21801A_SAMP_5052.CNF;1

DETECTOR	R SERIAL NUM	MBER		21-801A		GEOMETRY	:
METHOD L	UNCERTAINT	Y (%):		5.0000			EFF (%):
		*****		5.0017E-01			GAIN
ENERGY C	ALIB OFFSET	******		1.0426E-01		FWHM CALIE	
ANALYST	S INITIALS			PJE			
ANALYSIS	DATE/TIME			NOV-15-1995	1	4:25:00)
			:	SAM	Ċ.		
	OLLECTION D			NOV-15-1995	1	3:20:00)
DURATION	OF DECAY		:	65			
COUNT LIV	/E TIME			17			
COUNT RE	AL TIME			17.4829			
DEAD TIME	E (%)			#VALUE!			
		\$)		10			
MWT	******						
				U1 HRSS PANEL			
REMARK	******	******					
	f Nuclide Act						
	er of Lines in			114			
	Unidentified L			20			
Number of	Lines Tenativi	ely Identified by	NID	94		82.5	(%)
Nuclide Typ		Activation Pro	oducta				
			Wtd Mean	Wtd Mean			
			Uncorrected	Decay Corr		Decay Corr	1-Sigma
NUCLIDE	HLIFE	DECAY	UCI/GRAM	UCI/GRAM		1-SIG ERR	%ERROR
CR-51	27.70D	0.999302				0.00084067	13.59
MN-54	312.14D	0.9999384				0.00013596	14.93
MN-56	2.58H	0.8352411	3.61E-03	4.32E-03		0.00039895	10.91
CO-58	70.82D	0.9997269	3.65E-04	3.66E-04		0.00071982	16.73
FE-59	44.51D	0.9995662		4.105-03		0.00094281	15.82
CO-60	5.72Y	0.99999	1.24E-04	1.24E-04		0.00029479	11.47
ZN65	243.90D	0.999921	4.10E-03	4.10E-03		4.7812E-07	23.14
	TOTAL AC	TIVITY -	2.07E-02	2.14E-02			

1995 GSEP EXERCISE

.

CHEMISTRY - 1

4:25:00

SAMPLE ID: PAGE 2 OF 2		GSEP2218	ACQUISITION DATE		NOV-15-1996	. /
Nuclide Type		Fission Produ	cts			
			Wtd Mean Uncorrected	Wtd Mean Decay Corr	Decay Con	1-Sigma
NUCLIDE	HLIFE	DECAY	UCI/GRAM	UCI/GRAM	1-SIG ERR	%ERROR
KR-83m	1.86H	0.7790897	5.35E-04	6.87E-04	0.00060729	13.36
BR-84	31.8M	0.4164218	7.42E-03	1.78E-02	0.00070041	22.8
KR-85	10.74Y	0.9999951	1.20E-03	1.208-03	0.00038453	19.47
KR-85M	4.4H	0.899852	2.59E-03	2.87E-03	0.00023787	11.88
KR-87	1.27H	0.6937814	1.21E-03	1.75E-03	0.00071724	9.98
KR-88	2.79H	0.8466911	4.25E-03	5.02E-03	0.00071163	6.82
SR-91	9.50H	0.9523004	4.29E-02	4.51E-02	0.00076187	16
Y-91	58.80D	0.9996711	4.91E-02	4.92E-02	0.00080294	23.63
MOTC-99M	65.92H	0.9929918	6.52E-02	6.56E-02	0.00069153	20.17
TC-99M	5.01H	0.9256526	5.31E-02	5.74E-02	0.0009002	6.04
RU-103	36.8D	0.9994744	4.51E-02	4.51E-02	0.00076472	15.89
RU-105	4.50H	0.9019646	2.71E-02	3.00E-02	0.00012949	24.32
RU-106	1.00Y	0.999947	1.11E-02	1.11E-02	0.00027195	6.16
TE-129	1.15H	0.6678125	3.06E-02	4.58E-02	0.00030911	24.3
TE-132	78.20H	0.9940801	1.70E-01	1.71E-01	0.00057389	12.02
1-131	8.070	0.9975971	1.57E-01	1.57E-01	0.00060632	23.07
XE-131m	11.96D	0.9983835	1.64E-03	1.65E-03	8.2365-05	6.43
I-133	8.7D	0.9977788	3.07E-01	3.08E-01	0.00042844	23.16
XE-133	5.26D	0.9963363	2.80E-02	2.81E-02	0.00086443	21.49
XE-133m	2.250	0.9914385	4.31E-03	4.35E-03	0.0006707	7.58
CS-134	2.07Y	0.9999743	1.33E-02	1.33E-02	0.00090956	24.5
1-134	52.60M	0.5900046	2.00E-01	3.39E-01	0.00063273	10.23
1-135	6.61H	0.9321667	2.49E-01	2.67E-01	0.00070011	5.68
XE-135	9.16H	0.9505744	7.74E-03	8.15E-03	0.00032523	11.87
XE-137	6.37H	0.929703	2.46E-04	2.65E-04	0.00039229	23.16
CS-136	13.10D	0.9985243	5.30E-03	5.31E-03	0.00064548	15.04
CS-137	30.02Y	0.9999982	8.39E-03	8.39E-03	0.0003025	7.01
BA-140	12.790	0.9984885	6.56E-02	6.57E-02	0.00052283	23.57
LA-140	40.22H	0.9885221	6.50E-02	6.58E-02	6.4014E-05	22.88
CE-144	284.29D	0.999932	3.48E-01	3.48E-01	0.00084317	24.54
	TOTAL AC	TIVITY *	1.97E+00	2.17E+00		
GRAND	TOTAL ACT		1.99E+00	2.19E+00		
	I-131	D.E. =		2.76 E-0	1	

REVIEWED BY :

APPROVED BY :

AT U1 HRSS PANEL

CONTROL MESSAGE CHEM-2

TIME : 0730 - As Requested (T+000 - T+390)

ISSUED TO : UNIT 1 CHEMIST or TSC CHEMISTRY DIRECTOR

PREREQUISITES :

HISTORICAL UNIT 1 DATA IS REQUESTED

MESSAGE

Attached is the counting room chemistry report for the RCS sample requested at 0535 (T-115) on November 15th.

UNIT 1 REACTOR COOLANT LIQUID (UNDILUTED)

CONFIGURATION FILE \$1\$DIA1:[CRU.ARCHIVE_UNAPP)21801A_SAMP_5052.CNF;1

		MBER		21-801A		
		Y (%):		5.0000	AVE UNC IN	EFF (%):
				5.0017E-01	FWHM CALIE	B GAIN
ENENGY C	ALIS OFFSET	*****	:	1.0426E-01	FWHM CALLE	B OFFSET:
				PJE		
		****************		NOV-15-1995	/ 6:40:00	0
			:	SAM		
	OLLECTION D			NOV-15-1995	/ 5:35:00	0
				65		
				17		
				19.0118		
				#VALUEI		
		3)		10		

				U1 HRSS PANEL		
REMARK	*****	******				
Summany	f Nuclide Act	in eliter a				
	her of Lines in					
	Unidentified L			114		
		ely Identified by		36		
Number of	PUIDS IGING(IA)	ery identified by	NID	78	68.4	(%)
Nuclide Typ		Activation Pro	oducts			
			Wtd Mean	Wtd Mean		
			Uncorrected	Decay Corr	Decay Corr	1-Sigma
NUCLIDE	HLIFE	DECAY	UCI/GRAM	UCI/GRAM	1-SIG ERR	%ERROR
CR-51	27.700	0.999302	3.32E-02	3.32E-02	0.00040093	20.01
MN-54	312.14D	0.9999384	3.33E-02	3.33E-02	0.00047346	6.44
MN-56	2.58H	0.8352411	2.79E-02	3.34E-02	0.00081504	18.99
CO-58	70.82D	0.9997269	2.63E-03	2.63E-03	0.00095921	17.24
FE-59	44.51D	0.9995662	3.32E-02	3.32E-02	0.00037707	13.42
CO-60	6.72Y	0.99999	9.67E-04	9.67E-04	0.00092689	8.2
ZN65	243.90D	0.999921	3.32E-02	3.32E-02	0.00074637	11.97
	TOTAL AC		1.64E-01	1.70E-01		

6:40:00

SAMPLE ID		GSEP2218	ACQUISITION DATE:		NOV-15-1995	1
Nuclide Type		Fission Produ	cte			
			Wtd Mean	Wtd Mean		
			Uncorrected	Decay Corr	Decay Corr	1-Sigma
NUCLIDE	HLIFE	DECAY	UCI/GRAM	UCI/GRAM	1-SIG ERR	%ERROR
KR-83m	1.86H	0.7790897	1.38E-03	1.77E-03	0.00074297	22.84
BR-84	31.8M	0.4164218	6.16E-02	1.48E-01	0.00035613	23.51
KR-85	10.74Y	0.9999951	1.20E-03	1.20E-03	0.00089951	11.68
KR-85M	4.4H	0.899852	3.07E-03	3.41E-03	0.00030453	24.66
KR-87	1.27H	0.6937814	1.96E-03	2.83E-03	0.00037276	5.92
KR-88	2.79H	0.8466911	4.38E-03	5.17E-03	0.0003058	15.03
SR-91	9.50H	0.9523004	3.47E-01	3.65E-01	3.7441E-05	23.35
Y-91	58.800	0.9996711	3.98E-01	3.98E-01	0.00062205	12.66
MOTC-99M	65.92H	0.9929918	5.27E-01	5.31E-01	0.00052139	20.38
TC-99M	6.01H	0.9256526	4.30E-01	4.64E-01	0.00041108	13.32
RU-103	36.8D	0.9994744	3.65E-01	3.65E-01	0.00070404	17.44
RU-105	4.50H	0.9019646	2.16E-01	2.39E-01	0.0004309	6.47
RU-106	1.00Y	0.999947	8.38E-02	8.38E-02	0.00064334	14.52
TE-129	1.15H	0.6678125	2.48E-01	3.71E-01	0.00049256	16.99
TE-132	78.20H	0.9940801	1.41E+00	1.42E + 00	0.00073635	23.94
1-131	8.070	0.9975971	1.26E+00	1.26E + 00	0.00046762	19.08
XE-131m	11.96D	0.9983835	2.732-03	2.73E-03	0.00052325	5.83
1-133	8.70	0.9977788	2.51E+00	2.52E+00	0.0002153	18.99
XE-133	5.26D	0.9963363	2.84E-02	2.85E-02	0.00026259	6.47
XE-133m	2.25D	0.9914385	5.38E-03	5.43E-03	0.00085843	21.92
CS-134	2.07Y	0.9999743	1.11E-01	1.11E-01	0.00088736	24.64
1-134	52.60M	0.5900046	1.66E + 00	2.81E+00	0.00071966	24.33
1-135	6.61H	0.9321667	2.07E + 00	2.22E+00	0.00026247	23.86
XE-135	9.16H	0.9505744	8.77E-03	9.235-03	0.00097748	5.73
XE-137	6.37H	0.929703	3.47E-04	3.73E-04	1.9338E-05	7.6
CS-136	13.10D	0.9985243	4.43E-02	4.43E-02	9.65392-05	11.36
CS-137	30.02Y	0.9999982	6.95E-02	6.95E-02	0.0005432	5.33
BA-140	12.790	0.9984885	5.30E-01	5.31E-01	0.00023056	16.59
LA-140	40.22H	0.9885221	5.25E-01	5.31E-01	0.00076799	18.38
CE-144	284.29D	0.999932	2.82E+00	2.82E+00	0.00096838	18.33
	TOTAL AC	TIVITY =	1.57E+01	1.74E+01		
GRAND	TOTAL ACT		1.59E+01	1.75E+01		
	I-131	D.E =		2.17 500		

REVIEWED BY :

APPROVED BY :

RCS SAMPLE TAKEN AT U1 HRSS PANEL

CONTROL MESSAGE CHEM-3

TIME : 0800 - 0810 (T+030 - T+040)

ISSUED TO : UNIT 1 CHEMIST or TSC CHEMISTRY DIRECTOR

PREREQUISITES :

SITES : DATA ON I-131 RESULTS FROM CONFIRMATORY RCS SAMPLE (REQUESTED AT 0630, T-060) IS REQUESTED

MESSAGE

Attached is the counting room chemistry report for the power change RCS sample collected at approximately 0700 (T-030).

UNIT 1 REACTOR COOLANT LIQUID (UNDILUTED)

CONFIGURATION FILE \$1\$DIA1:[CRU.ARCHIVE_UNAPP]21801A_SAMP_5052.CNF;1

		IBER:		21-801A		GEOMETRY	******
		(%):		5.0000		AVE UNC IN E	FF (%):
ENERGY CA	ALIB GAIN			5.0017E-01		FWHM CALIS	GAIN
ENERGY CA	ALIB OFFSET.	******	4	1.0426E-01		FWHM CALIB	OFFSET:
				PJE			
ANALYSIS	DATE/TIME			NOV-15-1995	1	8:00:00	
COLLECTO	R'S INITIALS.	*****	:	SAM			
SAMPLE COLLECTION DATE/TIME:		NOV-15-1995	1	7:00:00			
DURATION	DURATION OF DECAY			60			
COUNT LIV	E TIME	*********		17			
COUNT REA	AL TIME	*****	:	20.1239			
DEAD TIME	(%)			#VALUE!			
SAMPLE M	ASS (GRAMS)	:	10			
MWT							
SAMPLE PC	NNT			U1 HRSS PANE			
REMARK	******						
Summary of	Nuclide Acti	vity :					
	er of Lines in			114			
	Unidentified L			20			
Number of L	ines Tenative	aly Identified by	NID	94		82.5	(%)
Nuclide Typ	e :	Activation Pro	ducts				
			Wtd Mean	Wtd Mean			
			Uncorrected	Decay Corr		Decay Corr	1-Sigma
NUCLIDE	HLIFE	DECAY	UCI/GRAM	UCI/GRAM		1-SIG ERR	%ERROR
CR-51	27.70D	0.999302	4.73E-02	4.73E-02		0.00022606	12.23
MN-54	312.14D	0.9999384	4.74E-02	4.74E-02		0.00041629	16.94
MN-56	2.58H	0.8352411	3.97E-02	4.75E-02		0.00036043	24.97
CO-58	70.820	0.9997269	3.73E-03	3.73E-03		0.00026209	9.07
FE-59	44.51D	0.9995662	4.73E-02	4.73E-02		0.00030238	23.33
CO-60	5.72Y	0.99999	1.38E-03	1.38E-03		0.00015711	8.02
ZN65	243.90D	0.999921	4.73E-02	4.73E-02		0.00048585	20.09
	TOTAL AC		2.34E-01	2.42E-01			

RCS SAMPLE TAKEN AT U1 HRSS PANEL

1995 GSEP EXERCISE

8:00:00

SAMPLE ID: PAGE 2 OF 2		GSEP2218	ACQUISITION DATE:		NOV-15-1995	. /
Nuclide Type		Fission Produ	cts			
			Wtd Mean Uncorrected	Wtd Mean Decay Corr	Decay Corr	1-Sigma
NUCLIDE	HLIFE	DECAY	UCI/GRAM	UCI/GRAM	1-SIG ERR	%ERROR
KR-83m	1.86H	0.7790897	1.79E-03	2.30E-03	0.00020516	6.22
BR-84	31.8M	0.4164218	8.79E-02	2.11E-01	0.00043767	16.15
KR-85	10.74Y	0.9999951	1.20E-03	1.205-03	0.00073391	23.56
KR-85M	4.4H	0.899852	3.31E-03	3.685-03	0.00049556	6.25
KR-87	1.27H	0.6937814	2.33E-03	3.36E-03	0.00084491	7.06
KR-88	2.79H	0.8468911	4.44E-03	5.255-03	0.00088347	21.05
SR-91	9.50H	0.9523004	4.95E-01	5.20E-01	0.00051977	22.42
Y-91	58.800	0.9996711	5.67E-01	5.67E-01	0.00083694	20.19
MOTC-99M	65.92H	0.9929918	7.51E-01	7.568-01	0.00048899	16.92
TC-99M	6.01H	0.9256526	6.13E-01	6.62E-01	0.00082227	18.91
RU-103	36.8D	0.9994744	5.20E-01	5.20E-01	1.7352E-05	17.43
RU-105	4.50H	0.9019646	3.07E-01	3.41E-01	0.00070178	12.49
RU-106	1.00Y	0.999947	1.19E-01	1.19E-01	0.00086011	11.98
TE-129	1.16H	0.6678125	3.53E-01	5.29E-01	0.00095045	17.14
TE-132	78.20H	0.9940801	2.01E+00	2.03E+00	0.00053197	19.23
1-131	8.07D	0.9975971	1.80E+00	1.80E + 00	0.00060636	9.86
XE-131m	11.96D	0.9983835	3.25E-03	3.26E-03	0.00092263	13.1
1-133	8.7D	0.9977788	3.59E+00	3.59E+00	0.00078307	19.93
XE-133	5.26D	0.9963363	2.86E-02	2.87E-02	0.00018537	20.1
XE-133m	2.25D	0.9914385	5.91E-03	5.96E-03	0.00086783	8.77
CS-134	2.074	0.9999743	1.58E-01	1.58E-01	0.00038159	21.47
1-134	52.60M	0.5900046	2.37E+00	4.01E+00	0.0002484	19.31
1-135	6.61H	0.9321667	2.95E+00	3.17E+00	0.00050428	20.14
XE-135	9.16H	0.9505744	9.27E-03	9.76E-03	0.00090841	20.07
XE-137	6.37H	0.929703	3.96E-04	4.26E-04	0.0002508	11.8
CS-136	13.10D	0.9985243	6.32E-02	6.33E-02	0.00023068	19.77
CS-137	30.02Y	0.9999982	9.92E-02	9.92E-02	0.0006784	21.39
BA-140	12.790	0.9984885	7.55E-01	7.56E-01	0.00022728	12.07
LA-140	40.22H	0.9885221	7.48E-01	7.57E-01	0.00023222	22.8
CE-144	284.290	0.999932	4.02E+00	4.02E+00	0.00026287	22.17
	TOTAL AC	TIVITY .	2.24E+01	2.47E+01		
GRAND	TOTAL ACT	IVITY =	2.27E+01	2.50E + 01		
	I131	D.E =		3.09 € 00		

REVIEWED BY :

APPROVED BY :

AT UT HRSS PANEL

CONTROL MESSAGE CHEM-4

TIME : 0945 - 1100 (T+135 - T+210)

ISSUED TO : UNIT 1 CHEMIST or TSC CHEMISTRY DIRECTOR

PREREQUISITES :

A POST-TRIP RCS SAMPLE IS REQUESTED FOLLOWING THE 0805 (T+035) UNIT 1 TRIP

MESSAGE

Attached is the counting room chemistry report for the post-Trip RCS sample collected at time (see below) .

CONTROLLER NOTE : Issue this message eighty (80) minutes after a post-SCRAM sample is requested by the Control Room, Unit 1 Chemist, or TSC Chemistry Director.

UNIT 1 REACTOR COOLANT LIQUID (UNDILUTED)

CONFIGURATION FILE: \$1\$DIA1:[CRU.ARCHIVE_UNAPP)21801A_SAMP_5052.CNF;1

	R SERIAL NUN			21-801A			
		r (%):		5.0000			EFF (%):
		******		5.0017E-01			GAIN:
ENERGY C	ALIB OFFSET		.:	1.0426E-01		FWHM CALIB	OFFSET:
ANALYST	S INITIALS	*****		PJE			
ANALYSIS	DATE/TIME		t	NOV-15-1995	1	10:00:00)
COLLECTO	R'S INITIALS.	****************	:	SAM			
SAMPLE C	OLLECTION D	ATE/TIME:		NOV-15-1995	1	8:30:00)
DURATION	OF DECAY		:	90			
COUNT LIN	/E TIME	******		17			
COUNT RE	AL TIME			17,7491			
				0			
SAMPLE M	ASS (GRAMS)		10			
MWT		******					
				U1 HRSS PANE	L		
REMARK	*****	*****					
Summary o	f Nuclide Act	vity :					
	er of Lines in			114			
	Unidentified L			28			
Number of	Lines Tenative	aly Identified by	NID	86 75.4 (%)			(%)
Alualida Tur		Antiputing De					
Nuclide Typ	201	Activation Pro	Wtd Mean				
				Wtd Mean			
NUCLIDE	HLIFE	DECAY	Uncorrected UCI/GRAM	Decay Corr		Decay Corr	1-Sigma
CR-51	27.70D	0.999302	3.12E+00	UCI/GRAM		1-SIG ERR	%ERROR
MN-54	312.14D	0.9999384	3.12E+00 3.12E+00	3.12E+00		0.00094311	15.71
MN-56	2.58H	0.8352411		3.12E+00		0.00074478	18.42
CO-58	70.82D	0.9997269	2.81E+00	3.12E+00		0.00082594	19.7
FE-59	44.51D		2.43E-01	2.44E-01		0.00025811	7.98
CO-60	44.51D	0.9995662	3.12E+00	3.12E+00		0.00022105	7.11
			9.05E-02	9.05E-02		0.0001599	17.53
ZN65	243.900	0.999921	3.12E+00	3.12E+00		0.0004541	23.89
	TOTAL AC	TIVITY =	1.54E+01	1.59E+01			

AT UI HRSS PANEL

1995 GSEP EXERCISE

CHEMISTRY - 4

10:00:00

SAMPLE ID: PAGE 2 OF 2		GSEP2218	ACQUISITION DATE:		NOV-15-1995	1
Nuclide Typ		Fission Produ	cts			
			Wtd Mean Uncorrected	Wtd Mean Decay Corr	D	
NUCLIDE	HLIFE	DECAY	UCI/GRAM	UCI/GRAM	Decay Corr 1-SIG ERR	1-Sigma %ERROR
KR-83m	1.86H	0.7790897	6.97E-02	8.95E-02	0.00013946	22.83
8R-84	31.8M	0.4164218	4.55E+00		0.0009471	19.22
KR-85	10.74Y	0.9999951	1.32E-03	1.32E-03	2.8392E-05	5.97
KR-85M	4.4H	0.899852	4.25E-02	4.73E-02	0.00048814	9.42
KR-87	1.27H	0.6937814	6.28E-02	9.06E-02	0.00064425	
KR-88	2.79H	0.8466911	1.48E-02	1.75E-02	0.00019391	13.48
SR-91	9.50H	0.9523004	3.27E+01	3.43E+01	0.00063062	16.33
Y-91	58.80D	0.9996711	3.74E+01	3.75E+01	1.7936E-05	16.25
MOTC-99M	65.92H	0.9929918	4.96E + 01	4.99E + 01	0.00079075	12.31
TC-99M	8.01H	0.9256526	4.05E+01	4.37E+01	0.00057258	8.32
RU-103	36.8D	0.9994744	3.43E+01	3.43E+01	0.00089174	15.11 24.95
RU-105	4.50H	0.9019646	2.03E+01	2.25E+01	0.00029076	19.63
RU-106	1.00Y	0.999947	7.80E + 00	7.80E + 00	0.00047765	8.42
TE-129	1.15H	0.6678125	1.82E+01	2.73E+01	6.011E-05	16.01
TE-132	78.20H	0.9940801	1.04E+02	1.05E + 02	0.00094463	13.4
1-131	8.07D	0.9975971	9.27E+01	9.292+01	0.00082775	15.74
XE-131m	11.96D	0.9983835	9.03E-02	9.05E-02	0.00070249	12.79
1-133	8.7D	0.9977788	1.85E+02	1.86E+02	0.00061153	6.25
XE-133	5.26D	0.9963363	6.34E-02	6.36E-02	0.00068246	17.48
XE-133m	2.250	0.9914385	9.24E-02	9.32E-02	0.00022711	18.44
CS-134	2.07Y	0.9999743	8.19E+00	8.19E+00	0.00090526	19.42
1-134	52.60M	0.5900046	1.22E+02	2.08E + 02	0.0003553	16.48
1-135	6.61H	0.9321667	1.53E+02	1.64E+02	0.0004546	21.92
XE-135	9.16H	0.9505744	9.22E-02	9.70E-02	0.00023703	7.32
XE-137	6.37H	0.929703	8.50E-03	9.15E-03	0.00091211	5.95
CS-138	13.10D	0.9985243	3.27E+00	3.28E + 00	0.00064633	21.79
CS-137	30.02Y	0.9999982	5.14E+00	5.14E+00	0.00057175	11.63
BA-140	12.79D	0.9984885	4.99E+01	4.99E+01	0.00041911	10.92
LA-140	40.22H	0.9885221	1.94E+01	4.99E+01	0.00083823	13.52
CE-144	284.290	0.999932	2.85E+02	2.65E + 02	0.00091412	20.38
	TOTAL AC	TIVITY =	1.28E+03	1.41E+03		
GRAND	TOTAL ACT	IVITY =	1.30E+03	1.42E+03		
	I-131	D.E. =		1.60E+02		

REVIEWED BY :

APPROVED BY :

0945-1100

RCS SAMPLE TAKEN AT U1 HRSS PANEL

CONTROL MESSAGE CHEM-5

TIME : 1100 - TERMINATION (T+210 - T+390)

ISSUED TO : UNIT 1 CHEMIST or TSC CHEMISTRY DIRECTOR

PREREQUISITIES : RCS SAMPLE IS REQUESTED AFTER 0900 (T+090) ; SAMPLE TO BE COLLECTED USING HIGH RADIATION SAMPLING SYSTEM (HRSS)

MESSAGE

Attached is the counting room chemistry report for the RCS sample collected at _____ (insert time approximately 55 minutes after a sampling request is made).

Additional Team Information :

Time Arrived at HRSS Room Time Sample Collected Time Sample Counted

Time Requested +30 minutes Time Requested +55 minutes Time Requested +75 minutes

CONTROLLER NOTES :

- Issue the OSC Debriefing form which is attached to this message to the OSC Supervisor approximately eighty (80) minutes after the sampling request is made.
- 2. Issue the Chemistry report which is attached to this message to the participating Chemist, approximately two hours after an RCS or HRSS sample is requested by the Control Room, Nuclear Engineers, Unit 1 Chemist, or the TSC Chemistry Director.

BZP 100-T19 Revision 2

EM	ERG	ENCY	TEAM	DEB	RIEF	ING	FORM	
(To	be	comp	leted	by	OSC	Dir	ector	

Team #		der
Task Completed: (Yes) No		
Status: <u>Dilutes RCS S</u> SAMPLE R	Ample OBTAINED	FROM FRIMARY
Problems Encountered: Nor	VE	
Jnusual Radiation Levels Enco	suntered: <u>HRSS</u> p RATE = a	ANEL CONTACT DOSE
Collow-up Actions Needed:	SAMPLE BEING COUNT.	ED AT High LEVEL LAB
otal Time in Plant:	0 Hr	55 Min.
ighest Personnel Exposure Rec	ceived:	23
eam Debriefed by:		Date: 11/15/95
 Contact Operations Direct Maintenance Director with 	or, Radiation Protes	ction Director, and
) Update the individuals Ex Status Board.		card and the Team Tracking
OSC Supervisor	OR	OSC Director
	(Final)	APPROVED
40AA/WPF/102993)	-1-	JAN 0 1 1994
		B.O.S.R.

UNIT 1 REACTOR COOLANT LIQUID (UNDILUTED)

CONFIGURATION FILE \$1 \$01A1:[CRU.ARCHIVE_UNAPP]21801A_SAMP_5052.CNF;1

			ABER:		21-801A			
			Y (%):		5.0000		AVE UNC IN	EFF (%):
			*****		5.0017E-01		FWHM CALLE	GAIN
ENE	ERGY CA	UB OFFSET		.:	1.0426E-01		FWHM CALIE	OFFSET:
					PJE			
			*********************		NOV-15-1995	1	12:15:00)
COL	LECTOR	T'S INITIALS	*****************	:	SAM			
1000	211 ALC: 10 - 10		ATE/TIME:		NOV-15-1995	1	11:00:00)
					75			
COL	JNT LIV	E TIME			17			
COL	JNT REA	L TIME			19.0778			
DEA	D TIME	(%)			0			
SAN	APLE MA	ASS (GRAMS			1			
MW	T T							
SAN	APLE PO	INT	*******************		U1 HRSS PANEL			
REN	ARK	*****						
Sum	mary of	Nuclide Act	ivity :					
		or of Lines in			114			
		Inidentified L			20			
Num	nber of L	ines Tenative	ely Identified by	NID	94 82.5 (%			(%)
Eucl	lide Type		Activation Pro					
1000	none i vine		AGUVATION PTO	Wtd Mean	Wtd Mean			
				Uncorrected	Decay Corr		Decay Corr	1-Sigma
NUC	LIDE	HLIFE	DECAY	UCI/GRAM	UCI/GRAM		1-SIG ERR	%ERROR
CR-8	51	27.700	0.999302	5.46E+00			0.00042184	
MN-	54	312.140	0.9999384	5.46E+00			0.00066361	15.58
MN-	56	2.58H	0.8352411	4.56E+00			0.00053855	12.09
CO-8	58	70.82D	0.9997269	4.26E-01	4.26E-01		3.9547E-05	
FE-5	9	44.51D	0.9995662	5.46E+00			0.0006398	
CO-6	30	5.72Y	0.99999	1.58E-01	1.58E-01		0.00038163	8.55
ZNB	5	243.90D	0.999921	5.46E+00			0.00026038	13.6
		TOTAL AC	TIVITY =	2.70E+01	2.79E+01			

1100 - TERMINATION

RCS SAMPLE TAKEN AT U1 HRSS PANEL 1. 1. 1.

1995 GSEP EXERCISE

CHEMISTRY - 5

12:15:00

SAMPLE ID. PAGE 2 OI		GSEP2218	ACQUISITION	DATE:	NOV-15-1995	5 /
Nuclide Typ	01	Fission Produ	cts			
			Wtd Meen	Wtd Mean		
NUCLIDE	HLIFE	DECAY	Uncorrected UCI/GRAM	Decay Corr	Decay Corr	1-Sigma
KR-83m	1.86H	0.7790897	1.38E-01	UCI/GRAM	1-SIG ERR	%ERROR
BR-84	31.8M	0.4164218	8.946 + 00	1.77E-01	0.00090714	
KR-85	10.74Y	0.9999951	1.45E-03	2.15E+01	0.00023597	
KR-85M	4.4H	0.899852		1.45E-03	0.00023917	6.26
KR-87	1.27H		8.20E-02	9.12E-02	0.00095922	19.57
KR-88	2.79H	0.6937814	1.24E-01	1.78E-01	0.00014685	13.49
SR-91	9.50H	0.8466911	2.52E-02	2.97E-02	0.00030497	10.98
Y-91		0.9523004	5.72E+01	6.01E+01	0.0003468	8.56
MOTC-99M	58.80D 65.92H	0.9996711	6.55E+01	6.56E+01	0.000734	21.58
TC-99M		0.9929918	8.68E+01	8.74E+01	0.00053317	14.86
RU-103	6.01H	0.9256526	7.08E+01	7.65E+01	0.00077547	6.4
RU-105	36.8D	0.9994744	6.01E+01	6.01E+01	2.6451E-05	24.79
RU-106	4.50H	0.9019646	3.65E+01	3.93E+01	0.00061113	7.8
TE-129	1.00Y	0.999947	1.37E+01	1.37E+01	7.683E-05	20.17
TE-129	1.15H	0.6678125	3.58E+01	5.37E+01	0.00032912	15.43
12-132	78.20H	0.9940801	2.05E + 02	2.06E + 02	0.00048988	11.23
	8.07D	0.9975971	1.82E+02	1.82E+02	0.00045153	18.93
XE-131m	11.96D	0.9983835	1.78E-01	1.78E-01	0.00010646	20.97
	8.7D	0.9977788	3.64E + 02	3.65E+02	0.00050739	10.15
XE-133	5.26D	0.9963363	9.83E-02	9.87E-02	0.00082417	13.33
XE-133m	2.25D	0.9914385	1.79E-01	1.81E-01	0.00094248	11.26
CS-134	2.07Y	0.9999743	1.61E+01	1.61E+01	0.0001983	20.04
1-134	52.60M	0.5900046	2.41E+02	4.08E+02	0.00037454	17.27
1-135	6.61H	0.9321667	3.00E+02	3.2.2E + 02	0.00063053	18.5
XE-135	9.16H	0.9505744	1.76E-01	1.85E-01	0.00094313	17.94
XE-137	6.37H	0.929703	1.67E-02	1.79E-02	0.00074037	12.17
CS-136	13.10D	0.9985243	6.43E+00	6.44E+00	0.00014354	23.79
CS-137	30.02Y	0.9999982	1.01E+01	1.01E+01	0.00054764	16.74
BA-140	12.790	0.9984885	8.73E+01	8.74E+01	0.00088868	24.07
LA-140	40.22H	0.9885221	8.64E+01	8.74E+01	0.00070345	20.93
CE-144	284.29D	0.999932	4.64E+02	4.64E+02	0.0003951	15.71
	TOTAL AC	TIVITY =	2.40E+03	2.63E + 03		
GRAND	TOTAL ACT	IVITY =	2.42E+03	2.66E + 03		
	I-1:	31 D.E. =		3.148+02		

REVIEWED BY :

APPROVED BY :

1100 - TERMINATION

RCS SAMPLE TAKEN AT U1 HRSS PANEL

CONTROL MESSAGE CHEM-6

TIME : 1100 - 1200 (T+210 - T+270)

ISSUED TO : UNIT 1 CHEMIST or TSC CHEMISTRY DIRECTOR

PREREQUISITIES :

: CONTAINMENT AIR SAMPLE (CASP) IS REQUESTED AFTER 0900 (T+090) ; SAMPLE TO BE COLLECTED USING HIGH RADIATION SAMPLING SYSTEM (HRSS)

MESSAGE

Attached is the counting room chemistry report for the CASP sample collected at _____ (insert time approximately 55 minutes after a sampling request is made).

Additional Team Information :

Time Arrived at CASP Time Sample Collected Time Sample Counted

Time Requested +30 minutes Time Requested +55 minutes Time Requested +75 minutes

CONTROLLER NOTES :

- This message contains data which represents results for a CASP sample collected between 1000 - 1100 hours (T+150 - T+210).
- Issue the OSC Debriefing form which is attached to this message to the OSC Supervisor approximately eighty (80) minutes after the sampling request is made.
- 3. Issue the Chemistry report which is attached to this message to the participating Chemist, approximately two hours after an RCS or HRSS sample is requested by the Control Room, Nuclear Engineers, Unit 1 Chemist, or the TSC Chemistry Director.

BZP 100-T19 Revision 2

Team #	Team Lead	ler
		Arrival at OSC:
Task Completed: Yes No		
Status: SAMPLE BEING	GRNalvzED AT Hig	h Level LAB
, ,	/ / /	
Problems Encountered: No!	VE	
Inusual Radiation Levels Enco	PREP	Part Par Inda
Sovers Enco		10 mR/h
	and the second se	10 PILIVI
Collow-up Actions Needed:	SEmple Analysis	
otal Time in Plant:	0 Rr	55 Min.
ighest Personnel Exposure Rea	ceived:	
eam Debriefed by:		Contraction of the second
1) Contact Operations Direct Maintenance Director with	tor. Badiation Durate	
		card and the Team Tracking
000 8	OR	OSC Director
OSC Supervisor		
USC Supervisor	(Final)	APPROVED
40AA/WPF/102993)	(Final) -1-	APPROVED JAN 01 1994

EMERGENCY TEAM DEBRIEFING FORM (To be completed by OSC Director)

CASP SAMPLE ISOTOPIC ANALYSIS REPORT

ANALYS	SIS :	IODINE	CI:KS	AI:KS	% DT :	1	
COLLEC	TION STAR	DATE, TIME					
		DATE, TIME				95 10:0	-
AVERAG	FSAMPLE	FLOW (CFM)			11/15/1	05 10:2	5
		AE			1.6		
		TION			SY:IOD10.SPC		
		3HT			DW2 CASP SAN	IPLE	
FEFICIEN	ICV ENE NA	ME			3 CM		
DETECT	OR NUMBER		*******		SY:03CHAR.EFF		
RADION	UCLIDE LIBA	ARY	i i		21-801A IOD.LIB		
ACQUIRE	E DATE :	15-Nov-9			FWHM (1332) :		2.084
PRESENT	TIME :	604	D SEC		TOLERANCE :		1.25KEV
REAL TIN	ME :		O SEC		HALF LIFE RATIO		1.ZDNEV
LIVE TIM	IE :	600	SEC		ADUNDANCE US	4.	
	********		**********		***********		********
1.207.0		ALIBRATION			FWHM CALIBRA	TION	
			12:19:36	3	CALIB DATE :		JUN-14-95
	NNEL:	0.8			SLOPE :		0.0274
OFFSET:		0.0539			OFFSET :		1.0283

		PUSIA	NID PEAK SEAR	CH REPORT **			
NUMBER	OF PEAKS I	IDE ACTIVITY	•		102 88		
IDENTIFIE	D IN SUMM	ARY REPORT			80	90.9	%
Nuclide Ty	ype :	Fission Produ	ICts				
			Wtd Mean	Wtd Mean			
			Uncorrected	Decay Corr	Decay Co		1-Sigma
NUCLIDE	HLIFE	DECAY	UCI/GRAM	UCI/GRAM	1-SIG ER		%ERROR
KR-83m	1.86H	0.7790897	1.05E-04			084134	
KR-85	10.74Y	0.9999951		1.10E-06		58E-05	
KR-85M	4.4H	0.899852				369471	
KR-87	1.27H	0.6937814	9.43E-05			231013	
KR-88	2.79H	0.8466911	1.92E-05	2.27E-05		107791	1.10
-131	8.07D	0.9975971	5.11E-02	5.12E-02		270604	21.3
XE-131m	11.96D	0.9983835	1.36E-04	1.36E-04		85946	
-133	8.7D	0.9977788	1.028-01	1.02E-01		28E-05	
XE-133	5.26D	0.9963363	7.498-06	7.52E-05			21.68
XE-133m	2.25D	0.9914385	1.37E-04	1.38E-04		45598	13.09
-134	52.60M	0.5900046	6.75E-02		0.0008		18.87
-135	6.61H	0.9321667	8.42E-02	1.14E-01	0.0008		18.67
KE-135	9.16H	0.9505744	1.34E-02	9.04E-02	0.0008		6.46
KE-137	6.37H	0.929703	1.27E-05	1.41E-04 1.37E-05	0.0007		24.33
					0.0007	11123	19.94
	GRAND TO	DTALS	3.06E-01	3.59E-01			

*** POST-NID PEAK SEARCH COMPLETED ***

CONTROL MESSAGE CHEM-7

TIME : 1201 - 1300 (T+271 - T+330)

ISSUED TO : UNIT 1 CHEMIST or TSC CHEMISTRY DIRECTOR

PREREQUISITIES :

CONTAINMENT AIR SAMPLE (CASP) IS REQUESTED AFTER 1000 (T+150) ; SAMPLE TO BE COLLECTED USING HIGH RADIATION SAMPLING SYSTEM (HRSS)

MESSAGE

Attached is the counting room chemistry report for the CASP sample collected at _____ (insert time approximately 55 minutes after a sampling request is made).

Additional Team Information :

Time Arrived at CASP Time Sample Collected Time Sample Counted

Time Requested +30 minutes Time Requested +55 minutes Time Requested +75 minutes

CONTROLLER NOTES :

- This message contains data which represents results for a CASP sample collected between 1101 - 1200 hours (T+211 - T+270).
- Issue the OSC Debriefing form which is attached to this message to the OSC Supervisor approximately eighty (80) minutes after the sampling request is made.
- 3. Issue the Chemistry report which is attached to this message to the participating Chemist, approximately two hours after an RCS or HRSS sample is requested by the Control Room, Nuclear Engineers, Unit 1 Chemist, or the TSC Chemistry Director.

BZP 100-T19 Revision 2

ROGR

EMERGENCY TEAM DEBRIEFING FORM (To be completed by OSC Director)

Team Ø	Team Leade	2	
		rival at OSC:	
Task Completed: Wes No			
Status: <u>SAMPLE BEIND</u>	3 aNdlyZED AT Hig	th Level LAB	
Problems Encountered:N	IONE		
Unusual Radiation Levels Enco	ountered: CASP CONT	ACT RAD AT 18 M	RII
Research and an an and an and an and an and an an an and an an an and an an and an a			
ollow-up Actions Needed:	SAMPLE ANelys	·/Ś	
ollow-up Actions Needed: otal Time in Plant: Ghest Personnel Exposure Rec	SAMPLE ANelys	.15 O G	Min
Collow-up Actions Needed: otal Time in Plant: Ighest Personnel Exposure Rec nam Debriefed by:	Sample Arielys	0 6 Date:	Min
ollow-up Actions Næeded: otal Time in Plant: .ghest Personnel Exposure Rec am Debriefed by:) Contact Operations Direct Maintenance Director with	<u>Sample Anelys</u> <u>I</u> Hr. Deived: <u>Time:</u> or, Radiation Protection.	0 6 Date:	Min
Ollow-up Actions Needed: Otal Time in Plant: Sphest Personnel Exposure Rec am Debriefed by:) Contact Operations Director Maintenance Director with	<u>Sample Anelys</u> <u>I</u> Hr. Deived: <u>Time:</u> or, Radiation Protection.	0 6 Date:	Min
Pollow-up Actions Needed: otal Time in Plant: ighest Personnel Exposure Rec nam Debriefed by:) Contact Operations Direct Maintenance Director with) Update the individuals Exp Status Board.	Spaple Anelys 	Date:	Min

CHEMISTRY - 7

CASP SAMPLE ISOTOPIC ANALYSIS REPORT

ANALYSI	S :	IDDINE	CI:KS	AI:KS	% DT : 1	
COLLECT	ION START	DATE, TIME			11/15/95 11:0	0
		ATE, TIME			11/15/95 11:4	-
		LOW (CFM)			1.6	•
		E			SY:IOD10.SPC	
		TION			DW2 CASP SAMPLE	
SAMPLE	SHELF HEIG	нт			3 CM	
		ME			SY:03CHAR.EFF	
					21-801A	
		ARY			IOD.LIB	

ACQUIRE	DATE :	15-Nov-95			FWHM (1332) :	2.084
PRESENT	TIME :	600	SEC		TOLERANCE :	1.25KEV
REAL TIM	E:	600	SEC		HALF LIFE RATIO:	8
LIVE TIME			SEC		ABUNDANCE LIM:	85
******	*******				***************	
	ENERGY C	ALIBRATION			FWHM CALIBRATION	
CALIB DA	TE :	JUN-14-95	12:19:36		CALIB DATE :	JUN-14-95
KEV/CHA	NNEL:	0.5			SLOPE :	0.0274
And an an an an an an an		0.0539			OFFSET :	1.0283
		*** POST-N TION SYSTEM (DE ACTIVITY		CH REPORT **	• • • • • • • • • • • • • • • • • • • •	
NUCLIDE SUMMAR	Y OF NUCLI OF PEAKS II	TION SYSTEM (
NUCLIDE SUMMAR NUMBER	Y OF NUCLI OF PEAKS II D PEAKS	TION SYSTEM (DE ACTIVITY N SPECTRUM			•	
NUCLIDE SUMMAR NUMBER	Y OF NUCLI OF PEAKS II D PEAKS	TION SYSTEM (DE ACTIVITY				
NUCLIDE SUMMAR NUMBER	Y OF NUCLI OF PEAKS II D PEAKS D IN SUMM	TION SYSTEM (DE ACTIVITY N SPECTRUM	REV SEP 88)	CH REPORT **	• 102 85	
NUCLIDE SUMMAR NUMBER IDENTIFIE IDENTIFIE	Y OF NUCLI OF PEAKS II D PEAKS D IN SUMM	TION SYSTEM (DE ACTIVITY N SPECTRUM ARY REPORT	REV SEP 88) cts Wtd Mean	CH REPORT **	• 102 88 80 90.5	9 %
NUCLIDE SUMMAR NUMBER IDENTIFIE IDENTIFIE Nuclide Ty	Y OF NUCLI OF PEAKS II D PEAKS D IN SUMM 1/P# :	TION SYSTEM (DE ACTIVITY N SPECTRUM ARY REPORT Fission Produ	REV SEP 88) cts Wtd Mean Uncorrected	Wtd Mean Decay Corr	• 102 88 80 90.5 Decay Corr	9 % 1-Sigma
NUCLIDE SUMMAR NUMBER IDENTIFIE IDENTIFIE Nuclide Ty NUCLIDE	Y OF NUCLI OF PEAKS II D PEAKS D IN SUMM /pm : HLIFE	TION SYSTEM (DE ACTIVITY N SPECTRUM ARY REPORT Fission Produ DECAY	REV SEP 88) cts Wtd Mean Uncorrected UCI/GRAM	Wtd Mean Decay Corr UCI/GRAM	• 102 85 80 90.5 Decay Corr 1-SIG ERR	9 % 1-Sigma %ERROR
NUCLIDE SUMMAR NUMBER IDENTIFIE IDENTIFIE Nuclide Ty NUCLIDE KR-83m	Y OF NUCLI OF PEAKS II D PEAKS D IN SUMM /pe : HLIFE 1.86H	TION SYSTEM (DE ACTIVITY N SPECTRUM ARY REPORT Fission Produ DECAY 0.7790897	REV SEP 88) cts Wtd Mean Uncorrected UCI/GRAM 8.77E-03	Wtd Mean Decay Corr UCI/GRAM 1.13E-02	• 102 85 80 90.5 Decay Corr 1-SIG ERR 0.000884211	1-Sigma %ERROR 22.42
NUCLIDE SUMMAR NUMBER IDENTIFIE IDENTIFIE Nuclide Ty NUCLIDE KR-83m KR-85	Y OF NUCLI OF PEAKS II D PEAKS D IN SUMM /pe : HLIFE 1.86H 10.74Y	TION SYSTEM (DE ACTIVITY N SPECTRUM ARY REPORT Fission Produ DECAY 0.7790897 0.9999951	REV SEP 88) cts Wtd Mean Uncorrected UCI/GRAM 8.77E-03 9.19E-05	Wtd Mean Decay Corr UCI/GRAM 1.13E-02 9.19E-05	• 102 85 80 90.5 Decay Corr 1-SIG ERR 0.000884211 0.000723313	1-Sigma %ERROR 22.42 17.05
NUCLIDE SUMMAR NUMBER IDENTIFIE IDENTIFIE Nuclide Ty NUCLIDE KR-83m KR-85 KR-85M	Y OF NUCLI OF PEAKS II D PEAKS D IN SUMM /pe : HLIFE 1.86H 10.74Y 4.4H	TION SYSTEM (DE ACTIVITY N SPECTRUM ARY REPORT Fission Produ DECAY 0.7790897 0.999951 0.899852	REV SEP 88) cts Wtd Mean Uncorrected UCI/GRAM 8.77E-03 9.19E-05 5.21E-03	Wtd Mean Decay Corr UCI/GRAM 1.13E-02 9.19E-05 5.79E-03	• 102 85 80 90.5 Decay Corr 1-SIG ERR 0.000884211 0.000723313 4.52491E-05	1-Sigma %ERROR 22.42 17.05 5 13.59
NUCLIDE SUMMAR NUMBER IDENTIFIE IDENTIFIE Nuclide Ty NUCLIDE KR-83m KR-85 KR-85M KR-85 KR-85M	Y OF NUCLI OF PEAKS II D PEAKS D IN SUMM 706 : HLIFE 1.86H 10.74Y 4.4H 1.27H	TION SYSTEM (DE ACTIVITY N SPECTRUM ARY REPORT Fission Produ DECAY 0.7790897 0.999951 0.899852 0.6937814	cts Wtd Mean Uncorrected UCI/GRAM 8.77E-03 9.19E-05 5.21E-03 7.86E-03	Wtd Mean Decay Corr UCI/GRAM 1.13E-02 9.19E-05 5.79E-03 1.13E-02	• 102 85 80 90.5 Decay Corr 1-SIG ERR 0.000884211 0.000723313 4.52491E-08 0.000441018	1-Sigma %ERROR 22.42 17.05 13.59 11.63
NUCLIDE SUMMAR NUMBER IDENTIFIE IDENTIFIE Nuclide Ty NUCLIDE KR-83m KR-85 KR-85M KR-85 KR-85M KR-87 KR-88	Y OF NUCLI OF PEAKS II D PEAKS D IN SUMM /pe : HLIFE 1.86H 10.74Y 4.4H 1.27H 2.79H	TION SYSTEM (DE ACTIVITY N SPECTRUM ARY REPORT Fission Produ DECAY 0.7790897 0.999951 0.899852 0.6937814 0.8466911	REV SEP 88) Cts Wtd Mean Uncorrected UCI/GRAM 8.77E-03 9.19E-05 5.21E-03 7.86E-03 1.60E-03	Wtd Mean Decey Corr UCI/GRAM 1.13E-02 9.19E-05 5.79E-03 1.13E-02 1.89E-03	• 102 85 80 90.5 Decay Corr 1-SIG ERR 0.000884211 0.006723313 4.52491E-08 0.000441016 0.000395797	1-Sigma %ERROR 22.42 3 17.05 5 13.59 5 11.63 7 12.76
NUCLIDE SUMMAR NUMBER IDENTIFIE IDENTIFIE Nuclide Ty NUCLIDE KR-83m KR-85 KR-85M KR-85 KR-85M KR-87 KR-88 I-131	Y OF NUCLI OF PEAKS II D PEAKS D IN SUMM (PF) : HLIFE 1.86H 10.74Y 4.4H 1.27H 2.79H 8.07D	TION SYSTEM (DE ACTIVITY N SPECTRUM ARY REPORT Fission Produ DECAY 0.7790897 0.9999951 0.899852 0.6937814 0.8466911 0.9975971	REV SEP 88) cts Wtd Mean Uncorrected UCI/GRAM 8.77E-03 9.19E-05 5.21E-03 7.86E-03 1.60E-03 4.26E + 00	Wtd Mean Decay Corr UCI/GRAM 1.13E-02 9.19E-05 5.79E-03 1.13E-02 1.89E-03 4.27E + 00	• 102 85 80 90.5 Decay Corr 1-SIG ERR 0.000884211 0.000723313 4.52491E-08 0.000395793 0.000391221	1-Sigma %ERROR 22.42 3 17.05 5 13.59 5 11.63 7 12.76 8.54
NUCLIDE SUMMAR NUMBER IDENTIFIE IDENTIFIE Nuclide Ty NUCLIDE KR-83m KR-85 KR-85M KR-85 KR-85M KR-87 KR-88 I-131 XE-131m	Y OF NUCLI OF PEAKS II D PEAKS D IN SUMM (P6 : HLIFE 1.86H 10.74Y 4.4H 1.27H 2.79H 8.07D 11.96D	TION SYSTEM (DE ACTIVITY N SPECTRUM ARY REPORT Fission Produ DECAY 0.7790897 0.9999951 0.899852 0.6937814 0.8466911 0.9975971 0.9983835	REV SEP 88) cts Wtd Mean Uncorrected UCI/GRAM 8.77E-03 9.19E-05 5.21E-03 7.86E-03 1.60E-03 4.26E + 00 1.13E-02	Wtd Mean Decey Corr UCI/GRAM 1.13E-02 9.19E-05 5.79E-03 1.13E-02 1.89E-03 4.27E + 00 1.13E-02	• 102 85 80 90.5 Decay Corr 1-SIG ERR 0.000884211 0.000723313 4.52491E-08 0.000395793 0.000391221 0.00099124	1-Sigma %ERROR 22.42 3 17.05 5 13.59 5 11.63 7 12.76 8 .54 8 11.39
NUCLIDE SUMMAR NUMBER IDENTIFIE IDENTIFIE IDENTIFIE Nuclide Ty NUCLIDE KR-83m KR-85 KR-85M KR-85 KR-85M KR-87 KR-88 I-131 XE-131m I-133	Y OF NUCLI OF PEAKS II D PEAKS D IN SUMM (PF) : HLIFE 1.86H 10.74Y 4.4H 1.27H 2.79H 8.07D 11.96D 8.7D	TION SYSTEM (DE ACTIVITY N SPECTRUM ARY REPORT Fission Produ DECAY 0.7790897 0.9999951 0.899852 0.6937814 0.8466911 0.9975971 0.9983835 0.9977788	REV SEP 88) cts Wtd Mean Uncorrected UCI/GRAM 8.77E-03 9.19E-05 5.21E-03 7.86E-03 1.60E-03 4.26E+00 1.13E-02 8.52E+00	Wtd Mean Decey Corr UCI/GRAM 1.13E-02 9.19E-05 5.79E-03 1.13E-02 1.89E-03 4.27E+00 1.13E-02 8.54E+00	• 102 85 80 90.5 Decay Corr 1-SIG ERR 0.000884211 0.000723313 4.52491E-05 0.000395793 0.000391221 0.00039124 0.000391875	1-Sigma %ERROR 22.42 17.05 13.59 11.63 7 12.76 8.54 11.39 5 23.27
NUCLIDE SUMMAR NUMBER IDENTIFIE IDENTIFIE IDENTIFIE Nuclide Ty NUCLIDE KR-83m KR-85 KR-85M KR-85 KR-85M KR-87 KR-88 I-131 XE-131m I-133 XE-133	Y OF NUCLI OF PEAKS II D PEAKS D IN SUMM (PF) : HLIFE 1.86H 10.74Y 4.4H 1.27H 2.79H 8.07D 11.96D 8.7D 5.26D	TION SYSTEM (DE ACTIVITY N SPECTRUM ARY REPORT Fission Produ DECAY 0.7790897 0.9999951 0.899852 0.6937814 0.8466911 0.9975971 0.9983835 0.9977788 0.9963363	REV SEP 88) REV SEP 88) Wtd Mean Uncorrected UCI/GRAM 8.77E-03 9.19E-05 5.21E-03 7.86E-03 1.60E-03 4.26E+00 1.13E-02 8.52E+00 6.24E-03	Wtd Mean Decay Corr UCI/GRAM 1.13E-02 9.19E-05 5.79E-03 1.13E-02 1.89E-03 4.27E+00 1.13E-02 8.54E+00 6.27E-03	• 102 85 80 90.5 Decay Corr 1-SIG ERR 0.000884211 0.000723313 4.52491E-05 0.000395797 0.000391221 0.000391221 0.000391875 0.000291875 0.000214714	1-Sigma %ERROR 22.42 17.05 13.59 11.63 7 12.76 8.54 11.39 5 23.27 4 7.88
NUCLIDE SUMMAR NUMBER IDENTIFIE IDENTIFIE IDENTIFIE Nuclide Ty NUCLIDE KR-83m KR-85 KR-85M KR-85 KR-85M KR-87 KR-88 I-131 XE-131m I-133 XE-133 XE-133m	Y OF NUCLI OF PEAKS II D PEAKS D IN SUMM (PF6 : HLIFE 1.86H 10.74Y 4.4H 1.27H 2.79H 8.07D 11.96D 8.7D 5.26D 2.25D	TION SYSTEM (DE ACTIVITY N SPECTRUM ARY REPORT Fission Produ DECAY 0.7790897 0.9999951 0.899852 0.6937814 0.8466911 0.9975971 0.9983835 0.9977788 0.9963363 0.9914385	REV SEP 88) REV SEP 88) Wtd Mean Uncorrected UCI/GRAM 8.77E-03 9.19E-05 5.21E-03 7.86E-03 1.60E-03 4.26E+00 1.13E-02 8.52E+00 6.24E-03 1.14E-02	Wtd Mean Decey Corr UCI/GRAM 1.13E-02 9.19E-05 5.79E-03 1.13E-02 1.89E-03 4.27E+00 1.13E-02 8.54E+00 6.27E-03 1.1EE-02	• 102 85 80 90.5 Decay Corr 1-SIG ERR 0.000884211 0.000723313 4.52491E-05 0.000395793 0.000391221 0.000391221 0.00039124 0.000291875 0.000214714 0.000547185	1-Sigma %ERROR 22.42 17.05 13.59 11.63 12.76 8.54 11.39 523.27 47.88 9.64
NUCLIDE SUMMAR NUMBER IDENTIFIE IDENTIFIE IDENTIFIE Nuclide Ty NUCLIDE KR-83m KR-85 KR-85M KR-85 KR-85M KR-87 KR-88 I-131 XE-131m I-133 XE-133 XE-133m I-134	Y OF NUCLI OF PEAKS II D PEAKS D IN SUMM (PF6 : HLIFE 1.86H 10.74Y 4.4H 1.27H 2.79H 8.07D 11.96D 8.7D 5.26D 2.25D 52.60M	TION SYSTEM (DE ACTIVITY N SPECTRUM ARY REPORT Fission Produ DECAY 0.7790897 0.9999951 0.899852 0.6937814 0.8466911 0.9975971 0.9983835 0.9977788 0.9963363 0.9914385 0.5900046	REV SEP 88) cts Wtd Mean Uncorrected UCI/GRAM 8.77E-03 9.19E-05 5.21E-03 7.86E-03 1.60E-03 4.26E+00 1.13E-02 8.52E+00 6.24E-03 1.14E-02 5.63E+00	Wtd Mean Decey Corr UCI/GRAM 1.13E-02 9.19E-05 5.79E-03 1.13E-02 1.89E-03 4.27E+00 1.13E-02 8.54E+00 6.27E-03 1.1EE-02 9.54E+00	• 102 85 80 90.5 Decay Corr 1-SIG ERR 0.000884211 0.000723313 4.52491E-05 0.000391221 0.000391221 0.000391221 0.000391225 0.00039124714 0.000547185 4.75533E-05	1-Sigma %ERROR 22.42 17.05 13.59 11.63 12.76 8.54 11.39 23.27 4.7.88 9.64 5.99
NUCLIDE SUMMAR NUMBER IDENTIFIE IDENTIFIE Nuclide Ty NUCLIDE KR-83m KR-85 KR-85M KR-85 KR-85M KR-87 KR-88 I-131 XE-131m I-133 XE-133 XE-133m I-134 I-135	Y OF NUCLI OF PEAKS II D PEAKS D IN SUMM (PP6 : HLIFE 1.86H 10.74Y 4.4H 1.27H 2.79H 8.07D 11.96D 8.7D 5.26D 2.25D 52.60M 6.61H	TION SYSTEM (DE ACTIVITY N SPECTRUM ARY REPORT Fission Produ DECAY 0.7790897 0.9999951 0.899852 0.6937814 0.8466911 0.9975971 0.9983835 0.9977788 0.9963363 0.9914385 0.5900046 0.9321667	REV SEP 88) cts Wtd Mean Uncorrected UCI/GRAM 8.77E-03 9.19E-05 5.21E-03 7.86E-03 1.60E-03 4.26E+00 1.13E-02 8.52E+00 6.24E-03 1.14E-02 5.63E+00 7.02E+00	Wtd Mean Decay Corr UCI/GRAM 1.13E-02 9.19E-05 5.79E-03 1.13E-02 1.89E-03 4.27E+00 1.13E-02 8.54E+00 6.27E-03 1.1EE-02 9.54E+00 7.53E+00	• 102 85 80 90.5 Decay Cerr 1-SIG ERR 0.000884211 0.000723313 4.52491E-08 0.000395797 0.000391221 0.0003214714 0.000547188 4.75533E-06 0.000420104	1-Sigma %ERROR 22.42 17.05 13.59 11.63 12.76 8.54 11.39 23.27 8.54 11.39 5.23.27 8.54 11.39 5.23.27 8.54 5.23.27 8.54 5.23.27 8.54 5.99 8.7.51
NUCLIDE SUMMAR NUMBER IDENTIFIE IDENTIFIE IDENTIFIE Nuclide Ty NUCLIDE KR-83m KR-85 KR-85M KR-85 KR-85M KR-87 KR-88 I-131 XE-131m I-133 XE-133 XE-133m I-134	Y OF NUCLI OF PEAKS II D PEAKS D IN SUMM (PF6 : HLIFE 1.86H 10.74Y 4.4H 1.27H 2.79H 8.07D 11.96D 8.7D 5.26D 2.25D 52.60M	TION SYSTEM (DE ACTIVITY N SPECTRUM ARY REPORT Fission Produ DECAY 0.7790897 0.9999951 0.899852 0.6937814 0.8466911 0.9975971 0.9983835 0.9977788 0.9963363 0.9914385 0.5900046	REV SEP 88) cts Wtd Mean Uncorrected UCI/GRAM 8.77E-03 9.19E-05 5.21E-03 7.86E-03 1.60E-03 4.26E+00 1.13E-02 8.52E+00 6.24E-03 1.14E-02 5.63E+00	Wtd Mean Decay Corr UCI/GRAM 1.13E-02 9.19E-05 5.79E-03 1.13E-02 1.89E-03 4.27E+00 1.13E-02 8.54E+00 6.27E-03 1.1EE-02 9.54E+00 7.53E+00 1.17E-02	• 102 85 80 90.5 Decay Corr 1-SIG ERR 0.000884211 0.000723313 4.52491E-05 0.000391221 0.000391221 0.000391221 0.000391225 0.00039124714 0.000547185 4.75533E-05	1-Sigma %ERROR 22.42 17.05 13.59 11.63 12.76 8.54 11.39 23.27 4 7.88 9.64 5.99 4 7.51

GRAND TOTALS 2.55E+01 2.99E+01

*** POST-NID PEAK SEARCH COMPLETED ***

CONTROL MESSAGE CHEM-8

TIME : 1301 - 1400 (T+331 - T+390)

ISSUED TO : UNIT 1 CHEMIST or TSC CHEMISTRY DIRECTOR

PREREQUISITIES :

CONTAINMENT AIR SAMPLE (CASP) IS REQUESTED AFTER 1100 (T+210) ; SAMPLE TO BE COLLECTED USING HIGH RADIATION SAMPLING SYSTEM (HRSS)

MESSAGE

Attached is the counting room chemistry report for the CASP sample collected at _____ (insert time approximately 55 minutes after a sampling request is made).

Additional Team Information :

Time Arrived at CASP Time Sample Collected Time Sample Counted

Time Requested +30 minutes Time Requested +55 minutes Time Requested +75 minutes

CONTROLLER NOTES :

- This message contains data which represents results for a CASP sample collected between 1201 - 1300 hours (T+271 - T+330). Samples collected after 1300 will not be analyzed prior to the termination of the exercise.
- Issue the OSC Debriefing form which is attached to this message to the OSC Supervisor approximately eighty (80) minutes after the sampling request is made.
- 3. Issue the Chemistry report which is attached to this message to the participating Chemist, approximately two hours after an RCS or HRSS sample is requested by the Control Room, Nuclear Engineers, Unit 1 Chemist, or the TSC Chemistry Director.

BZP 100-T19 Revision 2

Toam f	Team Leade	er	
	Time of Ar	rival at osc:	
Task Completed: (Yes) / No			
Status:SAMPLE B	Eina ANalyZED AT	Hinly Triff 11	n
	J Champ En Ma	inger hover LA	3
Problems Encountered:	NONE		
roblems Encountered:	100106	ananana ing kanang mang pang mang mang mang mang mang mang mang m	
		annon ann an ann an ann an ann an ann an	
nusual Radiation Levels En	countered: _CASP (ON	TACT RAD LEVE	1.5
	AT 220		
an an the second sec	0		
ollow-up Actions Needed:	Sample Ariel.	5	
ollow-up Actions Needed:	Sample Ariel: 15	5	
otal Time in Plant:	Rr	05	Kin.
otal Time in Plant:	Hr Received:	05 36	mrem
otal Time in Plant:	Hr Received:	05 36	mrem
otal Time in Plant: ighest Personnel Exposure F sam Debriefed by:) Contact Operations Dire	Hr Received: Time:	05 36 Date:	mrem
otal Time in Plant: ghest Personnel Exposure F am Debriefed by:) Contact Operations Dire Maintenance Director wi	Hr Received: Time: ector, Radiation Protect th this information.	05 36 Date: ion Director, and	mrem
otal Time in Plant: ighest Personnel Exposure F sam Debriefed by:) Contact Operations Dire Maintenance Director wi	Hr Received: Time: ector, Radiation Protect th this information.	05 36 Date: ion Director, and	mrem
otal Time in Plant: ghest Personnel Exposure F am Debriefed by:) Contact Operations Dire Maintenance Director wi	Hr Received: Time: ector, Radiation Protect th this information.	05 36 Date: ion Director, and	mrem
otal Time in Plant: ghest Personnel Exposure F am Debriefed by:) Contact Operations Dire Maintenance Director wi) Update the individuals Status Board.	Hr Received: Time: ector, Radiation Protect th this information. Exposure Tracking Placa OR	05 36 Date: ion Director, and rd and the Team T	mrem
otal Time in Plant: ghest Personnel Exposure F am Debriefed by:) Contact Operations Dire Maintenance Director wi) Update the individuals Status Board. OSC Supervisor	Hr Received: Time: ector, Radiation Protect th this information. Exposure Tracking Place OR (Final)	05 36 Date: ion Director, and rd and the Team T	mrem
2) Update the individuals Status Board.	Hr Received: Time: ector, Radiation Protect th this information. Exposure Tracking Placa OR	05 36 Date: ion Director, and rd and the Team T OSC Director	mrem

EMERGENCY TEAM DEBRIEFING FORM (To be completed by OSC Director)

CASP SAMPLE ISOTOPIC ANALYSIS REPORT

ANALYSI	S :	IODINE	CI:KS	AI:KS	% DT	: 1	
COLLECT	ION START	DATE, TIME			11/15	95 11:00	0
		DATE, TIME				95 11:4	
		LOW (CFM)			1.6	0011.44	
		E			SY:IOD10.SPC		
		TION			DW2 CASP SAL		
		IHT			3 CM	WILLE	
		ME			SY:03CHAR.EF		
		*****			21-801A		
		ARY			IOD.LIB		

ACQUIRE	DATE :	15-Nov-95	1		FWHM (1332) :		2.084
PRESENT	TIME :	600	SEC		TOLERANCE :		1.25KEV
REAL TIM	IE :		SEC		HALF LIFE RATI		8
LIVE TIME	E :		SEC		ABUNDANCE LI		85
	ENERGY C	ALIBRATION			FWHM CALIBR		
CALIB DA	TE :	JUN-14-95	12:19:36	a ser a sea a se	CALIB DATE :		JUN-14-95
KEV/CHA	NNEL:	0.5			SLOPE :		0.0274
OFFSET:		0.0539			OFFSET :		1.0283
	********						1.0203
		IDE ACTIVITY					
IDENTIFIE		N SPECTRUM			102		
the second the second	the states are a set	ARY REPORT			88 80	90.9	%
Nuclide Ty	vpe :	Fission Produ	icta				
	-		Wtd Mean	Wtd Mean			
			Uncorrected	Decay Corr	Decay ('or	1-Sigma
NUCLIDE	HLIFE	DECAY	UCI/GRAM	UCI/GRAM	1-SIG E		%ERROR
KR-83m	1.86H	0.7790897				0120764	
KR-85	10.74Y	0.9999951				962032	
KR-85M	4.4H	0.899852				984392	
KR-87	1.27H	0.6937814				694002	
KR-88	2.79H	0.8466911	8.00E-05			0888138	
-131	8.07D	0.9975971	2.13E-01	2.132-01	0.001	984486	
XE-131m	11.96D	0.9983835	5.65E-04			339722	17.39
1-133	8.7D	0.9977788		4.27E-01		988E-05	
XE-133	5.26D	0.9963363		3.135-04		9885-05	12.84
XE-133m	2.25D	0.9914385	5.70E-04	5.75E-04			
-134	52.60M	0.5900046		4.77E-01		026921	13.98
-135	6.61H	0.9321667	3 512-01	3.77E-01		0681218	6.5
XE-135	9.16H	0.9505744	3.58E-04	5.87E-01		0508285	6.52
XE-137	6.37H	0.929703	5.29E-05	5.69E-05		669572	16.49
1.51				0.035-05	0.000	224047	9.84
	GRAND T	OTALS	1.27E+00	1.50E+00			

*** POST-NID PEAK SEARCH COMPLETED ***

1301 - 1400

CONTROL MESSAGE CHEM-9

TIME : 1300 - 1400 (T+330 - T+390)

SSUED TO : TSC CHEMISTRY DIRECTOR

PREREQUISITIES :

IODINE AIR SAMPLE COLLECTED IN FUEL HANDLING BUILDING BETWEEN 1200 AND 1300 (T+270 - T+330)

MESSAGE

Attached is the counting room chemistry report for the iodine air cartridge which was collected in the Fuel Handling Building betwee 1200 hours (T+270) and 1300 hours (T+330).

CONTROLLER NOTE :

Issue this message approximately eighty (80) minutes after an air sample is requested. In order to obtain this result, an actual team must have demonstrated the collection of the sample. Results will not be available prior to exercise termination for samples collected after 1300 (T+330).

CHEMISTRY . 9

AIR SAMPLE ISOTOPIC ANALYSIS REPORT

ANALYSIS :	IODINE	CI:KS	ALKS	% DT : 1	
			- and	<i>A b t</i> , 1	
COLLECTION STAN	RT DATE, TIME			NOV-15-1995, 12:2	0.35
COLLECTION STOP	DATE, TIME			NOV-15-1995, 123	
AVERAGE SAMPLE	FLOW (CFM)			1.6	
SPECTRAL FILE NA	ME.			SY:JOD10.SPC	
SAMPLE IDENTIFIC	ATION	4		DW2 CASP SAMPL	F
SAMPLE SHELF HE	IGHT	4		3 CM	
EFFICIENCY FILE N	AME			SY:03CHAR.EFF	
DETECTOR NUMBE	R			21-801A	
RADIONUCLIDE LIB	RARY			IOD.LIB	
******				******************	
ACQUIRE DATE :				FWHM (1332) :	
PRESENT TIME :	600	SEC		TOLERANCE :	1.25KEV
REAL TIME :		SEC		HALF LIFE RATIO:	8
LIVE TIME :		SEC		ABUNDANCE LIM:	85
	ALIORATION	**********			
CALIB DATE :		12-10-26		FWHM CALIBRATION	
KEV/CHANNEL:	0.5	12.18.30		CALIB DATE :	
OFFSET:	0.0539			SLOPE : OFFSET :	0.0274
100 P 1 1 100 P 2 P 2				UFFOEI :	1.0283
	*** POST-NI				
NUCLIDE IDENTIFIC		EV SEP 88)			
NUMBER OF PEAKS	IN SPECTRUM			100	

NUMBER OF PEAKS IN SPECTRUM	102	
IDENTIFIED PEAKS	88	
IDENTIFIED IN SUMMARY REPORT	80	90.9 %

Nuclide Type : Fission Products

NUCLIDE			Wtd Mean Uncorrected	Wtd Mean Decay Corr	Decay Corr	1-Sigma
NUCLIDE	HLIFE	DECAY	UCI/GRAM	UCI/GRAM	1-SIG ERR	%ERROR
KR-83m	1.86H	0.7790897	2.70E-03	3.47E-03	0.00040121	9.01
KR-85	10.74Y	0.9999951	2.38E-05	2.38E-05	0.00087761	24.79
KR-85M	4.4H	0.899852	1.97E-03	2.19E-03	0.0004873	16.27
KR-87	1.27H	0.6937814	2.04E-03	2.94E-03	0.00079904	8.13
KR-88	2.79H	0.8466911	5.24E-04	6.19E-04	0.00058344	11.22
1-131	8.07D	0.9975971	2.03E+00	2.03E + 00	0.00064557	18.25
XE-131m	11.960	0.9983835	5.03E-03	5.04E-03	0.00068144	6.08
1-133	8.7D	0.9977788	4.06E + 00	4.07E+00	0.00091975	21.22
XE-133	5.26D	0.9963363	2.38E-03	2.398-03	0.00096941	19.76
XE-133m	2.250	0.9914385	4.98E-03	5.02E-03	0.0007626	24.47
1-134	52.60M	0.5900046	1.22E + 00	2.07E+00	0.00081262	19.28
1-135	6.61H	0.9321667	3.02E + 00	3.24E + 00	0.00045713	19.59
XE-135	9.16H	0.9505744	4.54E-03	4.77E-03	7.6114E-05	8.48
XE-137	6.37H	0.929703	4.23E-04	4.55E-04	0.00048426	13.54

GRAND TOTALS 1.04E+01 1.14E+01

*** POST-NID PEAK SEARCH COMPLETED ***

AIR SAMPLE TAKEN IN FHB AFTER HATCH BREAK

METEOROLOGY AND ENVIRONMENTAL INFORMATION

•	ENVIRONS TEAM CONTROLLER GUIDANCE
•	MURRAY & TRETTEL 12-HOUR FORECAST(S)
•	1-MINUTE METEOROLOGY [POINT HISTORY]
•	1-MINUTE WRGM RELEASE DATA [POINT HISTORY]
•	ONSITE RADIOLOGICAL CONDITIONS
•	COMED [ONSITE] MONITORING MAP DATA
•	IDNS [OFFSITE] MONITORING MAP DATA

<<< *** THIS IS AN EXERCISE *** >>>

METEOROLOGICAL FORECAST

GENERAL CONDITIONS:

The early winter has been characterized by intervals of both unusually warm and unusually cool conditions, though the overall averages are close to the expected temperatures. Precipitation has been normal and river levels are near normal for November. A series of cold fronts with light rainfall moved through the northern Illinois region between Friday, November 10, and Tuesday morning November 14, producing locally icy conditions and reports of light snow.

NOVEMBER 15, 1995, FORECAST, 0730 THROUGH 0859:

A strong low pressure system moved into the northern Illinois area overnight, bringing freezing rain. Heavy ice accumulation has been reported overnight in Minnesota and Wisconsin, and along a line north of Interstate 80 in Illinois and east of Freeport, Illinois. Additional icing is expected to end by mid-morning Surface winds are light from the east at 1-3 mph. Today's forecast is for cloudy to mostly cloudy skies with afternoon temperatures between 30°F and 40°F. Winds will become more easterly and will stabilize by 0900 from out of the east with a slow change to a northeasterly flow over the remainder of the day. See attached Point History data for current information.

NOVEMBER 15, 1995, FORECAST, 0900 THROUGH 1059:

A mild low pressure system remains over north central Illinois. Skies are cloudy throughout the area, with light winds [2-4 mph] out of the east. Winds will slowly increase in speed throughout the morning to near 5 mph. A high temperature of near 32'F is expected this afternoon. See attached Point History data for current information.

NOVEMBER 15, 1995, FORECAST, 1100 THROUGH 1330:

A low pressure system has slid southward through Illinois. Skies are partly cloudy throughout the area, with winds at 5-8 mph out of the east. Winds will remain steady throughout the afternoon. A high temperature of near 32°F is expected this afternoon. See attached Point History data for current information.

Winds will remain out of the east-northeast after six p.m. (1800 hours) this evening, increasing in speed to near 10 mph. Partly-cloudy to clear skies are expected overnight and clear skies for Wednesday (November 15th) morning. An overnight low of 18°F to 20°F is expected.

<<< *** THIS IS AN EXERCISE *** >>>

MURRAY & TRETTEL 12-HOUR FORECAST DATA DAY 1

TIME	WIND DIRECTION	WIND SPEED (m/s)	STABILITY CLASS
1600	40	4.4	A
1700	40	4.4	A
1800	42	4.3	A
1900	45	4.3	A
2000	47	4.4	A
2100	49	4.5	A
2200	53	4.2	A
2300	60	3.5	A
0000 11/15/95	67	3.2	A
0100	74	2.5	В
0200	80	2.3	В
0300	83	2.2	В
0400	88	2.0	В
0500	88	1.9	В
0600	86	1.9	В
0700	91	1.6	В
0730	86	1.6	B

MURRAY & TRETTEL 12-HOUR FORECAST DATA DAY 2

TIME	WIND DIRECTION	WIND SPEED (m/s)	STABILITY CLASS
0800	86	1.4	B
0900	81	1.9	В
1000	77	2.9	В
1100	75	4.5	С
1200	73	5.4	D
1300	73	5.5	D
1400	73	6.2	D
1500	70	6.3	D
1600	70	6.2	D
1700	70	6.3	с
1800	68	6.3	С
1900	68	6.2	С
2000	62	6.0	С
2100	62	6.0	С
2200	62	6.1	D
2300	58	6.1	D
0000 11/16/95	58	6.2	D

CONTROLLER GUIDANCE : OSC / Environs Teams

1. Take no action which jeopardizes the safety of any individual(s).

- 2. Data tables are provided for a variety of ComEd and IDNS monitoring locations. A lower range of 1 mR/h is assumed for CP instruments and values of less than 1.0 are not marked; a one-meter closed-window measurement is assumed. Values for measurements for which data is not provided are "as read (AR)" for all instruments : controllers should direct environs teams to use and report actual instrument values at those locations.
- 3. Actual air samples will be collected as requested, using particulate caltridges to simulate silver zeolite. An adequate inventory of silver zeolite cartridges should be demonstrated to be available. If changes to fixed air samplers are requested, the environs team should demonstrate their ability to access the air sampler housing. Air sample information should be reported as of the time the sample collection was started. Air sample results for all locations not actually in the plume should be reported as "as read" (locations may be affected by plume shine).
- PC's will not be worn outside of the protective ("double") fence. Should the use of PC's be requested, the required equipment will be located, inspected, and returned to storage.
- If respiratory protection equipment is requested, the equipment will be located and inspected. One radio communication will be made from inside the environs vehicle wearing the respirator. No respiratory protection equipment will be worn outside of the environs vehicle.
- Use of potassium iodide (KI) shall be simulated. If the use of KI is directed, participants must demonstrate that an adequate supply of KI is available.
- The replacement of environmental TLDs will be actually performed until the point that the actual TLD <u>could be</u> removed. No actual environmental TLDs should be removed from their permanent location(s).
- 8. All environmental samples should be collected as requested.
- 9. Care should be taken to ensure that numerical data is presented with the same degree of precision as the measuring instrument can deliver. All numbers should be rounded to agree with the mater scale(s) in use by the field team member.
- 10. Meal arrangements will be handled through the Lead Controller for the facility (TSC or EOF) which has command and control of the environs team(s).

<<< *** THIS IS AN EXERCISE *** >>>

EPEXER/Byron/grdris/6

TIME	WIND DIRECTION	WIND SPEED	PRECIPITATION	CLOUD COVER
0730	E	SLIGHT WIND	DRIZZLING RAIN	CLOUDY
0800	E	SLIGHT WIND	DRIZZLING RAIN	CLOUDY
0900	E-NE	SLIGHT WIND	DRIZZLING RAIN	CLOUDY
1000	E-NE	SLIGHT WIND	DRIZZLING RAIN	CLOUDY
1100	E-NE	SLIGHT WIND	NONE	CLOUDY
1200	E-NE	BREEZY WIND	NONE	CLOUDY
1300	E-NE	BREEZY WIND	NONE	PARTLY CLOUDY
1400	E-NE	BREEZY WIND	NONE	PARTLY CLOUDY
1500	E-NE	BREEZY WIND	NONE	PARTLY CLOUDY
1600	E-NE	BREEZY WIND	NONE	PARTLY CLOUDY
1700	E-NE	BREEZY WIND	NONE	PARTLY CLOUDY
1800	E-NE	BREEZY WIND	NONE	PARTLY CLOUDY
1900	E-NE	BREEZY WIND	NONE	PARTLY CLOUDY
2000	E-NE	BREEZY WIND	NONE	PARTLY CLOUDY
2160	E-NE	BREEZY WIND	NONE	PARTLY CLOUDY
2200	E-NE	BREEZY WIND	NONE	PARTLY CLOUDY
300	E-NE	BREEZY WIND	NONE	PARTLY CLOUDY
0000	E-NE	BREEZY WIND	NONE	PARTLY CLOUDY

17-HOUR OBSERVATION FORECAST DATA 11/15/95

THIS IS AN EXERCISE

ENVIRONS TEAM MESSAGE ET-1

0900 - 1000 (T+090 - T+150)

ISSUED TO : ENVIRONS TEAM AT ENVIRONS VAN (OUTSIDE NEAR MAIN GATEHOUSE)

PREREQUISITE : DISPATCHED TO VANS BY OSC AND TSC

MESSAGE

"THIS IS AN EXERCISE : There is a thick coating of ice on the GSEP vans. It continues to drizzle, though it does NOT appear to be continuing to form ice. A considerable amount of effort is needed to clear the vehicle windshields, mirrors, and windows from ice. The parking lot area is very slippery."

CONTROLLER NOTE(S) :

TIME :

- 1. Environs teams should show that they have sturdy ice scrapers available which would be adequate to remove the heavy accumulation of ice which would be expected from a severe storm. A lack of scrapers should be considered a deficiency in vehicle preparedness and reported following the exercise. The Environs teams SHOULD NOT be held in place because of a lack of ice scrapers.
- 2. Teams should show the operability of vehicle wipers and spray.
- 3. If actual conditions do not require them, vehicles ARE NOT required to travel with lights on, etc., to simulate travel under hazardous conditions.

ENVIRONS TEAM MESSAGE ET-2

TIME : 0930 - 1100 (T+120 - T+210)

ISSUED TO : ENVIRONS TEAM IN GSEP VAN

PREREQUISITE : HAVE LEFT TEAM STAGING AREA IN TRANSIT TO MONITOR-ING POINTS

MESSAGE

"THIS IS AN EXERCISE : The roads are 100% wet and are mostly ice-covered. Travel is possible using lower speeds and cautious, defensive, driving. All roads are passable though few to no vehicles are seen."

CONTROLLER NOTES : 1.

- AFTER 1020 (T+170) inform team members that it is no longer drizzling, though it remains heavily overcast with a lot of moisture in the air.
- 2. When teams reach their initial monitoring point, REPORT that the wind speed is near calm conditions.

ENVIRONS TEAM MESSAGE ET-3

TIME : 1000 - TERMINATION (T+150 - T+390)

ISSUED TO : ENVIRONS TEAM IN SECTORS L AND M AND N

PREREQUISITE : DISPATCHED BY TSC OR EOF

MESSAGE

"THIS IS AN EXERCISE : As you approach _____(any location listed below)____, you notice a damaged electrical pole which is leaning or broken, with broken electrical cable on the ground. You hear a crackling noise coming from the line (where it is connected to the pole) indicating that it may still be "live".

Locations :

west Oregon Trail Road west of South Gale Road	1
Limkin Road between TLD 212-1 and TLD 211-2	M
East end of West Midtown Road (near TLD 212-1)	IVI
East end of West Midtown Road (near TLD 213-1)	

CONTROLLER NOTES : 1.

- No wire is simulated to be across the road or otherwise preventing travel through the area.
- 2. No wire is simulated to be damaged at a designated environmental monitoring point and the simulated line failures should not be permitted to affect the collection of environmental samples.

ENVIRONS TEAM MESSAGE ET-4

TIME : 1035 - 1230 (T+185 - T+300)

ISSUED TO : ENVIRONS TEAM AT ROUTE 72 BRIDGE INTO BYRON

PREREQUISITE : DISPATCHED BY TSC

MESSAGE

PROVIDE the appropriate information according to the time :

1035 - 1044 (T+185 - T+194) :

"THIS IS AN EXERCISE : All lanes across the Route 72 Bridge over the Rock River into Byron are blocked by a multi-vehicle accident. The accident is located about fifty (50) yards to the west of the Rt. 72 intersection with German Church Road. The vehicles consist of a white Chevrolet Suburban, a blue 2-door Ford Taurus sedan, a red Dodge Spirit, and a black Ford Ranger pick-up truck. Eight persons are visible around the vehicles, inspecting the damage. No emergency vehicles are on the scene."

1045 - 1144 (T+195 - T+254) :

"THIS IS AN EXERCISE : All lanes across the Route 72 Bridge over the Rock River into Byron are blocked by a multi-vehicle accident. The accident is located about fifty (50) yards to the west of the Rt. 72 intersection with German Church Road. The vehicles consist of a white Chevrolet Suburban, a blue 2-door Ford Taurus sedan, a red Dodge Spirit, and a black Ford Ranger pick-up truck. Two (2) Byron police cars and one (1) Ogle County Sheriffs car are on the scene."

1145 - 1230 (T+255 - T+300) :

"THIS IS AN EXERCISE : All lanes across the Route 72 Bridge over the Rock River into Byron are blocked by a multi-vehicle accident. The accident is located about fifty (50) yards to the west of the Rt. 72 intersection with German Church Road. The vehicles consist of a white Chevrolet Suburban, a blue 2-door Ford Taurus sedan, a red Dodge Spirit, and a black Ford Ranger pick-up truck. Twc (2) Byron police cars are on the scene, along with two (2) tow trucks.

CONTROLLER NOTES : 1.

- The team(s) are not present at the bridge when the accident occurs.
- 2. IF ASKED : there are no injured persons at the accident scene.
- Use of the Route 72 bridge is restored AFTER 1230 (> T+300).

ENVIRONS TEAM MESSAGE ET-5

TIME : 1040 (T+190)

ISSUED TO : ENVIRONS TEAM OUTSIDE OF PLANT BUILDINGS

PREREQUISITE : DISPATCHED BY TSC

MESSAGE

"THIS IS AN EXERCISE : You hear the offsite sirens sounding. The sound continues for three (3) minutes.

ENVIRONS TEAM MESSAGE ET-6

TIME : 1230 (T+300)

ISSUED TO : ENVIRONS TEAM OUTSIDE OF PLANT BUILDINGS

PREREQUISITE : DISPATCHED BY TSC

MESSAGE

"THIS IS AN EXERCISE : You hear the offsite sirens sounding. The sound continues for three (3) minutes.

ENVIRONS TEAM MESSAGE ET-7

TIME : 1230 (T+300)

ISSUED TO : ENVIRONS TEAM OUTSIDE OF PLANT BUILDINGS

PREREQUISITE : DISPATCHED BY TSC

MESSAGE

"THIS IS AN EXERCISE : The wind has noticibly picked up speed and is now brisk and breezy. Some widely scattered patches of blue sky are visible and it appears that conditions may be starting to become less overcast and cloudy."

ENVIRONS TEAM MESSAGE ET-8

TIME: 1200 - 1400 (T+270 T+390)

ISSUED TO: ENVIRONS TEAM WITHIN 1 MILE OF BYRON STATION (ONSITE TEAM(S))

PREREQUISITE: DISPATCHED BY TSC OR EOF

MESSAGE

"THIS IS AN EXERCISE : ATTACHED is environmental monitoring data for areas within 1 mile of Byron Station."

Byron I	Exer	cise Fie	d Data 11/15	/95 for locations	WITHIN ON	E MILE of	station.
Notes:							
1	For I	ocations n	ot specified here profile plot.	, obtain results by inter	polation betwee	en data at spe	cified locations
2	Nota	tion for Po	int Locations:				
		"TLD 110		Ed TLD location 110-1.			

Time: 11	:58 to 12:1	2				1			
						interval a	te of Sample nd Measured	Collected in in Normal 8	This Time ackground
	3ft WO	24 140	01-1110		GM	lodine	Particulate		
Point	and the second se	3ft WC	6in WO	6in WC	Background	Cartridge	Filter	Soll	Follage
· Onit	(mR/hr)	(mR/hr)	(mR/hr)	(mR/hr)	(cpm)	(cpm)	(cpm)	(cpm)	(cpm)
J1	2.40	2.40	2.40	2.40	9,500	As Deed			
K1	5.50		5.50	5.50	and the second	As Read			As Read
K2	0.85			0.85	21,500	As Read	As Read	As Read	As Read
L1	27.0	27.0	27.0	27.0	3,500	As Read	As Read	As Read	As Read
L3	7.00	the second s	7.00	a station of the second s	105,000	As Read	As Read	As Read	As Read
M1	2,150.	1,400.	2,650.	7.00	30,000	As Read	As Read	As Read	As Read
M11	170.	110.		1,200.	> 250,000	> 250,000	> 250,000	11,500	6,000
NI	65.0	65.0	210.	95.0	> 250,000	> 250,000	> 250,000	900	450
N11	2.30	to the second	65.0	65.0	> 250,000	As Read	As Read	As Read	As Read
21	the state of the s	2.30	2.30	2.30	9,500	350	350	As Read	As Read
P2	12.5	12.5	12.5	12.5	50,000	As Read	As Read	As Read	As Read
21	4.25	4.25	4.25	4.25	17,000	As Read	As Read	As Read	As Read
R1	3.80	3.80	3.80	3.80	15,500	As Read	As Read	As Read	As Read
	0.35	0.35	0.35	0.35	1,400	As Read	As Read	As Read	As Read
TLD 110-1	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
TLD 110-2	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
TLD 111-3	0.10	0.10	0.10	0.10	350	As Read	As Read	As Read	As Read
LD 111-4	0.10	0.10	0.10	0.10	450	As Read	As Read	As Read	As Read
LD 112-3	190.	125.	245.	105.	> 250,000	> 250,000	> 250,000	1,300	650
LD 112-4	230.	150.	285.	130.	> 250,000	> 250,000	> 250,000	1,150	600
LD 113-1	2.30	2.30	2.30	2.30	9,000	As Read	As Read	As Read	the second s
LD 113-2	0.90	0.90	0.90	0.90	3,500	As Read	As Read	As Read	As Read
LD 114-1	As Read	As Read	As Read	As Read	As Read	As Read	As Read		As Read
LD 314-1	0.75	0.75	0.75	0.75	3,000	As Read	As Read	As Read	As Read
UR 24	1.75	1.75	1.75	1.75	7.000	As Read	As Read	As Read As Read	As Read As Read

Time: 1	12:13 to 12:	27							
						Interval a	te of Sample	Collected in	This Time
	3ft WO	3ft WC	6in WO	Cin MIC	GM	lodine	Particulate		T
Point	(mR/hr)	(mR/hr)		6in WC	Background	Cartridge	Filter	Soll	Follage
	((unit in)	(mR/hr)	(mR/hr)	(cpm)	(cpm)	(cpm)	(cpm)	(cpm)
J1	1.5	5 1.55	1.55	1.55	0.000				
K1	3.4			3.45		As Read	As Read	As Read	As Rea
K2	0.5			and the second sec	13,500	As Read	As Read	As Read	As Rea
L1	17.0	17.0	17.0	0.55	2,100	As Read	As Read	As Read	As Rea
L3	4.50		4.50	17.0	70,000	As Read	As Read	As Read	As Rea
M1	1,350.	900.	1,700.	4.50	18,000	As Read	As Read	As Read	As Rea
M11	110.	70.0	135.	750.	> 250,000	> 250,000	> 250,000	19,000	9,50
N1	40.5	40.5	40.5	60.0	> 250,000	> 250,000	> 250,000	1,450	75
N11	1.45	and the second se	the second statement of the se	40.5	160,000	As Read	As Read	As Read	As Read
P1	8.00		1.50	1.45	6,000	As Read	250	As Read	As Read
P2	2.70		8.00	8.00	30,000	As Read	As Read	As Read	As Read
21	2.45		2.70	2.70	11,000	As Read	As Read	As Read	As Read
31	0.20	0.20	2.45	2.45	9,500	As Read	As Read	As Read	As Read
LD 110-2	As Read	As Read	0.20	0.20	900	As Read	As Read	As Read	As Read
LD 111-3	0.05		As Read	As Read	As Read	As Read	As Read	As Read	As Read
LD 111-4	0.05	0.05	0.05	0.05	As Read	As Read	As Read	As Read	As Read
LD 112-3	120.	0.05	0.05	0.05	300	As Read	As Read	As Read	As Read
LD 112-4	150.	80.0	155.	65.0	> 250,000	> 250,000	> 250,000	2,100	1,050
LD 113-1		95.0	180.	80.0	> 250,000	> 250,000	> 250,000	1,850	950
LD 113-2	1.45	1.45	1.45	1.45	6,000	As Read	As Read	As Read	As Read
LD 114-1	As Read	0.60	0.60	0.60	2,350	As Read	As Read	As Read	As Read
LD 314-1	the second se	As Head	As Read	As Read	As Read	As Read	As Read	As Read	As Read
IR 24	0.50	0.50	0.50	0.50	1,950	As Read	As Read	As Read	As Read
1124	1.10	1.10	1.10	1.10	4,500	As Read	As Read	As Read	As Read

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Time:	ercise Field Da 12:28 to 12	2:42							
					014	interval al	nd Measured	Collected in In Normal B	This Time ackground
	3ft W(3ft WC	6in WO	6in WC	GM	logine	Particulate		
Point	(mR/h		(mR/hr)	(mR/hr)	Background	Cartridge	Filter	Soll	Follage
		/ (·····/	(internet)	(IIIFI/III)	(cpm)	(cpm)	(cpm)	(cpm)	(cpm)
J1	0	85 0.85	0.85	0.85					11/
K1	the second se	.95 1.95		0.00		As Read	As Read	As Read	As Read
K2		30 0.30			-,	As Read	As Read	As Read	As Read
L1	the second se	50 9.50		0.30	1,200	As Read	As Read	As Read	As Read
L3	the second se	55 2.55		9.50	40,000	As Read	As Read	As Read	As Read
M1	750		950.	2.55	10,000	As Read	As Read	As Read	As Read
M11	60		75.0	425.	> 250,000	> 250,000	> 250,000	22,500	11,500
V1	23		23.0	33.5	245,000	> 250,000	> 250,000	1,750	850
11	the second se	85 0.85		23.0	90,000	As Read	As Read	As Read	As Read
21	and the second se	50 4.50		0.85	3,500	As Read	As Read	As Read	As Read
2	the second s	55 1.55		4.50	18,000	As Read	As Read	As Read	As Read
21	and the second se	40 1.40		1.55	6,000	As Read	As Read	As Read	As Read
31	the second se	10 0.10	1.40	1.40	5,500	As Read	As Read	As Read	As Read
LD 111-3	As Re		0.10	0.10	500	As Read	As Read	As Read	As Read
LD 111-4	As Re		As Read	As Read	As Read	As Read	As Read	As Read	As Read
LD 112-3	70.	the second provide the second s	As Read	As Read	As Read	As Read	As Read	As Read	As Read
LD 112-4	85.		90.0	37.0	> 250,000	> 250,000	> 250,000	2,500	1,250
LD 113-1	0.1		100.	46.0	> 250,000	> 250,000	> 250,000	2,250	1,100
LD 113-2	0.		0.85	0.85	3,500	As Read	As Read	As Read	As Read
LD 314-1	0.		0.35	0.35	1,350	As Read	As Read	As Read	As Read
IR 24	and the second se		0.30	0.30	1,100	As Read	As Read	As Read	As Read
	0.0	5 0.65	0.65	0.65	2,500	As Read	As Read	As Read	As Read

Byron Ex Time:	12:43	to 12:5	7							
							Interval a	te of Sample	Collected in In Normal B	This Time
	1	3ft WO	3ft WC	6in WO	CI- 1410	GM	lodine	Particulate		1
Point	1	(mR/hr)	(mR/hr)	and the second sec	6in WC	Background	Cartridge	Filter	Soil	Foliage
	1	mony	(mon)	(mR/hr)	(mR/hr)	(cpm)	(cpm)	(cpm)	(cpm)	(cpm)
J1		0.45	0.45	0.45	0.45	1				
K1		1.05	1.05	1.05	0.45	1,850	As Read	As Read	As Read	As Read
K2		0.15	0.15	0.15	a second s	4,000	As Read	As Read	As Read	As Read
L1		5.00	5.00	the state is a second se	0.15	650	As Read	As Read	As Read	As Read
L3		1.35	1.35	5.00	5.00	20,500	As Read	As Read	As Read	As Read
M1		410.	260.	1.35	1.35	5,500	As Read	As Read	As Read	As Read
M11		32.0	200.	500.	225.	> 250,000	> 250,000	> 250,000	24,000	12,000
V1		12.0	and the second se	40.0	18.0	130,000	> 250,000	> 250,000	1,850	950
V11		0.45	12.0	12.0	12.0	50,000	As Read	As Read	As Read	As Read
21			0.45	0.45	0.45	1,750	As Read	As Read	As Read	As Read
2		2.40	2.40	2.40	2.40	9,500	As Read	As Read	As Read	As Read
21		0.80	0.80	0.80	0.80	3,000	As Read	As Read	As Read	As Read
31		0.75	0.75	0.75	0.75	3,000	As Read	As Read	As Read	As Read
LD 111-3		0.05	0.05	0.05	0.05	250	As Read	As Read	As Read	As Read
LD 111-4	of the second diversity of the second diversity of the second second second second second second second second	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
		As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	
LD 112-3		36.0	23.5	47.0	19.5	145,000	> 250,000	> 250,000	2,500	As Read
LD 112-4		44.5	28.0	55.0	24.5	175,000	> 250,000	> 250,000	2,350	1,350
LD 113-1		0.45	0.45	0.45	0.45	1,750	As Read	As Read	As Read	1,200
LD 113-2		0.20	0.20	0.20	0.20	700	As Read	As Read	As Read	As Read
LD 314-1		0.15	0.15	0.15	0.15	600	As Read	As Read	and the second se	As Read
IR 24		0.35	0.35	0.35	0.35	1,350	As Read	As Read	As Read	As Read As Read

Time: 12	ise Field Data 1:58 to 13:1	2							
						Interval a	te of Sample	Collected in in Normal B	This Time ackground
	3R WO	3ft WC		01. 1110	GM	lodine	Particulate		
Point	(mR/hr)	A	6in WO	6in WC	Background	Cartridge	Filter	Soll	Foliage
· ont	(maxim)	(mR/hr)	(mR/hr)	(mR/hr)	(cpm)	(cpm)	(cpm)	(cpm)	(cpm)
J1	0.30	0.30	0.30	0.30	1 150				
K1	0.65	0.65	0.65	0.30	1,150	As Read	As Read	As Read	As Read
K2	0.10	0.10	0.05	0.65	2,500	As Read	As Read	As Read	As Read
L1	3.20	3.20	the second	0.10	400	As Read	As Read	As Read	As Read
L3	0.85	of the second second because the second s	3.20	3.20	12,500	As Read	As Read	As Read	As Read
M1	255.	0.85	0.85	0.85	3,500	As Read	As Read	As Read	As Read
M11	20.0	160.	320.	140.	> 250,000	> 250,000	> 250,000	24,500	12,500
N1	and the party of the second	13.0	25.0	11.0	80,000	> 250,000	> 250,000	1,900	950
V11	7.50	7.50	7.50	7.50	30,000	As Read	As Read	As Read	As Read
P1	0.30	0.30	0.30	0.30	1,100	As Read	As Read	As Read	As Read
2	1.50	1.50	1.50	1.50	6,000	As Read	As Read	As Read	As Read
the state of the second st	0.50	0.50	0.50	0.50	2,000	As Read	As Read	As Read	As Read
21	0.45	0.45	0.45	0.45	1,800	As Read	As Read	As Read	As Read
71	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	
LD 111-3	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
LD 111-4	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
LD 112-3	22.5	15.0	29.5	12.0	90,000	> 250,000	> 250,000	the second se	As Read
LD 112-4	27.5	17.5	34.0	15.0	110,000	> 250,000	> 250,000	2,500	1,350
LD 113-1	0.25	0.25	0.25	0.25	1,100	As Read	As Read	2,400	1,200
LD 113-2	0.10	0.10	0.10	0.10	450	As Read	As Read	As Read	As Read
LD 314-1	0.10	0.10	0.10	0.10	350	As Read	the state of the s	As Read	As Read
IR 24	0.20	0.20	0.20	0.20	850	As Read	As Read As Read	As Read As Read	As Read As Read

Time:	13:13	Field Data 3 to 13:2	7							
							Interval a	te of Sample	Collected In In Normal B	This Time ackground
	1	3ft WO	3ft WC	6in WO	Cin MO	GM	lodine	Particulate		
Point		(mR/hr)	(mR/hr)	(mR/hr)	6in WC (mR/hr)	Background	Cartridge	Filter	Soll	Follage
		1	Tunning	(mering)	(mm/mr)	(cpm)	(cpm)	(cpm)	(cpm)	(cpm)
J1	1	0.20	0.20	0.20	0.20	950	1.0.1			
K1	1	0.50	0.50		0.50	850	As Read	and the second se	As Read	As Read
K2	1	0.10	0.10	and the second se	0.50	1,950	As Read	As Read	As Read	As Read
L1	1	2.45	2.45		and the second sec	300	As Read		As Read	As Read
L3		0.65	0.65		2.45	10,000	As Read	As Read	As Read	As Read
M1		195.	125.		0.65	2,500	As Read	As Read	As Read	As Read
M11	-	15.5	123.	245.	105.	> 250,000	> 250,000	> 250,000	24,500	12,500
N1		6.00	and the second se	19.0	8.50	60,000	> 250,000	> 250,000	1,900	950
N11		And the second s	6.00	6.00	6.00	23,000	As Read	As Read	As Read	As Read
P1		0.20	0.20	0.20	0.20	850	As Read	As Read	As Read	As Read
2		1.15	1.15	1.15	1.15	4,500	As Read	As Read	As Read	As Read
21		0.40	0.40	0.40	0.40	1,550	As Read	As Read	As Read	As Read
31		0.35	0.35	0.35	0.35	1,400	As Read	As Read	As Read	As Read
the second s		As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
LD 111-4		As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
LD 112-3		17.0	11.5	22.5	9.50	70,000	> 250,000	> 250,000	2,500	1,350
LD 112-4		21.0	13.5	26.0	11.5	85,000	> 250,000	> 250,000	2,450	1,200
LD 113-1		0.20	0.20	0.20	0.20	850	As Read	As Read	As Read	As Read
LD 113-2		0.10	0.10	0.10	0.10	350	As Read	As Read	As Read	As Read
LD 314-1		0.05	0.05	0.05	0.05	300	As Read	As Read	As Read	As Read
NR 24		0.15	0.15	0.15	0.15	650	As Read	As Read	As Read	As Read

Time:	tercise Field Data 13:28 to 13:4	12	-						
					GM	Interval a	te of Sample nd Measured	Collected in in Normal B	This Time ackground
	3ft WO	3ft WC	6in WO	6in WC	Background	lodine Cartridge	Particulate		
Point	(mR/hr)	(m͡a/hr)	(mR/hr)	(mR/hr)	(cpm)	(cpm)	Filter (cpm)	Soll (cpm)	Foliage
J1	0.45							Copini	(cpm)
K1	0 15					As Read	As Read	As Read	As Read
K2	0.35					As Read	As Read	As Read	As Read
L1	70			and the second se		As Read	As Read	As Read	As Read
13	0.5	1.70	1.70	1.70	7,000	As Read	As Read	As Read	As Read
M1	135.		0.45	0.45	1,800	As Read	As Read	As Read	As Read
W11	10.5	85.0	170.	75.0	> 250,000	> 250,000	> ?= 100	24,500	12,000
VI		7.00	13.5	6.00	45,000	215,000		1,900	950
V11	4.00	4.00	4.00	4.00	16,000	As Read	As Read	As Read	As Read
21	and the second data and the se	0.15	0.15	0.15	600	As Read	As Read	As Read	As Read
2	0.80	0.80	0.80	0.80	3,000	As Read	As Read	As Read	As Read
21	0.25	0.25	0.25	0.25	1,050	As Read	As Read	As Read	As Read
1	As Read	0.25	0.25	0.25	950	As Read	As Read	As Read	As Read
LD 112-3	12.0	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
LD 112-4	14.5	8.00	15.5	6.50	50,000	> 250,000	> 250,000	2,500	1,350
LD 113-1	0.15	9.50	18.0	8.00	60,000	> 250,000	> 250,000	2,400	1,200
LD 113-2	0.15	0.15	0.15	0.15	600	As Read	As Read	As Read	As Read
LD 314-1	As Read	0.05	0.05	0.05	As Read	As Read	As Read	As Read	As Read
IR 24	and the second	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Fead
	0.10	0.10	0.10	0.10	450	As Read	As Read	As Read	As Read

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13:43 to 13:5				the second se	and the second se	the second se		
	1							
					Interval a	te of Sample	Collected In In Normal B	This Time ackground
28 100	24 10	Cin WO	01-140			Particulate		
and the second sec						Filter	Soll	Follage
(me/m)	(mH/nr)	(mH/nr)	(mR/hr)	(cpm)	(cpm)	(cpm)	(cpm)	(cpm)
0.15	0.15	0.15	0.15	550	As Rear	As Road	Ac Dood	As Deed
0.30	0.30	0.30	and the second s	the summary of the summar	the second s	and the second state of th		As Read
As Read	As Read	As Read	and the second sec	the second se	and the state of the	and the second se		As Read
1.55	1.55	1.55	the second se	Commences of the part of the second sec		the second se	and the second se	As Read
0.40	0.40	0.40	and the second se	the same second s	and the second se		the second se	As Read
115.	75.0	145.	and the second se				and the second design of the s	As Read
12.5	7.50	15.0	the second s	second in a second structure is and the light to second a second structure in the second structure is a second	and the second se	and the second se	A IN COMPANY AND ADDRESS OF ADDRE	12,000
3.10	3.10	3.10	and produces of the second	the second particular and a second particular second second second second second second second second second se	and the second sec		Contraction in the second s	950
0.10	0.10	and the second sec	the set of	All from the property of the state of the st			Supplication in the supplication of the suppli	As Read
0.60	0.60	the second s		and we are the second second to see the second se			CALCULATE CONTRACTOR OF THE OWNER OF THE OWNER OF	As Rear
0.20	0.20	and the second se	and the second se	the second se	and the second se	and a supervise of the	and the second s	As Read
0.20	0.20	the second s		A second s	and the second sec	the second se	and the second sec	As Read
As Read	And and the owner of the local data and the second data and the se	and the second se		tests and second a support of the second sec	and the second se	and the second se	the second se	As Read
10.0	and the second se		and the second se	and the second se		The second se	the second se	As Read
9.00		and the second se	and the second se	and the second			Carl and a second s	1,350
0.10	and the second se	Commission and a second s	and the second se		the second se	and the second sec	the second se	1,200
and the second se	the second s	and the second se	and the second	the second se	the state of the s	and the second se	and the same state of the same	As Read
and the second			Property street, where the second street was a second street where the second street where the second street with the second street where the second street with	successive to an exception of the last contract of the last of the			and the second	As Read
and the second	and the second		and the second se		and the second sec	and the second se	Contraction of the local division of the loc	As Read
	0.30 As Read 1.55 0.40 115. 12.5 3.10 0.10 0.60 0.20 0.20 0.20 As Read 10.0 9.00	(mR/hr) (mR/hr) 0.15 0.15 0.30 0.30 As Read As Read 1.55 1.55 0.40 0.40 115. 75.0 12.5 7.50 3.10 3.10 0.60 0.60 0.20 0.20 0.10 6.00	(mR/hr) (mR/hr) (mR/hr) 0.15 0.15 0.15 0.30 0.30 0.30 As Read As Read As Read 1.55 1.55 1.55 0.40 0.40 0.40 115. 75.0 145. 12.5 7.50 15.0 3.10 3.10 3.10 0.10 0.10 0.10 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 </td <td>(mR/hr) (mR/hr) (mR/hr) (mR/hr) (mR/hr) 0.15 0.15 0.15 0.15 0.15 0.30 0.30 0.30 0.30 As Read As Read As Read As Read 1.55 1.55 1.55 1.55 0.40 0.40 0.40 0.40 115. 75.0 145. 65.0 12.5 7.50 15.0 7.00 3.10 3.10 3.10 3.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.10 6.50</td> <td>(mR/hr) (mR/hr) (mR/hr) (mR/hr) (mR/hr) (cpm) 0.15 0.15 0.15 0.15 0.15 550 0.30 0.30 0.30 0.30 1,200 As Read As Read As Read As Read As Read 1.55 1.55 1.55 1.55 6,000 0.40 0.40 0.40 0.40 1,650 115. 75.0 145. 65.0 > 250,000 12.5 7.50 15.0 7.00 50,000 12.5 7.50 15.0 7.00 50,000 3.10 3.10 3.10 3.10 12,500 0.10 0.10 0.10 0.10 400 0.60 0.60 0.60 2,500 2,500 0.20 0.20 0.20 0.20 750 As Read As Read As Read As Read As Read 10.0 6.50 13.5 5.50 40,000</td> <td>Interval ar GM Interval ar 3ft WO 3ft WC 6in WO 6in WC Background Cartridge (mR/hr) (mR/hr) (mR/hr) (mR/hr) (cpm) (cpm) 0.15 0.15 0.15 0.15 550 As Read 0.30 0.30 0.30 0.30 1,200 As Read As Read As Read As Read As Read As Read As Read 1.55 1.55 1.55 1.55 6,000 As Read 0.40 0.40 0.40 0.40 1,650 As Read 115. 75.0 145. 65.0 > 250,000 > 250,000 12.5 7.50 15.0 7.00 50,000 230,000 3.10 3.10 3.10 3.10 3.10 3.10 3.10 3.10 3.10 12,500 As Read 0.60 0.60 0.60 0.60 2.500 As Read As Read As Read As Read As Read<td>Interval and Measured GM Indine Particulate 3ft WO 3ft WC 6in WO 6in WC Background Cartridge Filter (mR/hr) (mR/hr) (mR/hr) (mR/hr) (cpm) (cpm) (cpm) 0.15 0.15 0.15 0.15 550 As Read As Read 0.30 0.30 0.30 0.30 1,200 As Read As Read As Read As Read As Read As Read As Read As Read 1.55 1.55 1.55 6,000 As Read As Read 0.40 0.40 0.40 0.40 1.650 As Read As Read 115. 75.0 145. 65.0 > 250,000 > 250,000 > 250,000 12.5 7.50 15.0 7.00 50,000 230,000 250,000 3.10 3.10 3.10 3.10 3.10 3.10 3.10 3.10 3.10 3.10 3.10 3.10</td><td>3ft WO 3ft WC 6in WO 6in WC Background Cantrologe Filter Soli (mR/hr) (mR/hr) (mR/hr) (mR/hr) (mR/hr) (cpm) (cpm) (cpm) 0.15 0.15 0.15 0.15 550 As Read As Read As Read 0.30 0.30 0.30 0.30 1,200 As Read As Read As Read 1.55 1.55 1.55 1.55 6,000 As Read As Read As Read 0.40 0.40 0.40 1,650 As Read As Read As Read 115. 75.0 145. 65.0 > 250,000 > 250,000 24,000 12.5 7.50 145. 65.0 > 250,000 250,000 24,000 12.5 7.50 145. 65.0 > 250,000 250,000 24,000 12.5 7.50 15.0 7.00 50,000 230,000 250,000 1,850 3.10 3.10 <t< td=""></t<></td></td>	(mR/hr) (mR/hr) (mR/hr) (mR/hr) (mR/hr) 0.15 0.15 0.15 0.15 0.15 0.30 0.30 0.30 0.30 As Read As Read As Read As Read 1.55 1.55 1.55 1.55 0.40 0.40 0.40 0.40 115. 75.0 145. 65.0 12.5 7.50 15.0 7.00 3.10 3.10 3.10 3.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.10 6.50	(mR/hr) (mR/hr) (mR/hr) (mR/hr) (mR/hr) (cpm) 0.15 0.15 0.15 0.15 0.15 550 0.30 0.30 0.30 0.30 1,200 As Read As Read As Read As Read As Read 1.55 1.55 1.55 1.55 6,000 0.40 0.40 0.40 0.40 1,650 115. 75.0 145. 65.0 > 250,000 12.5 7.50 15.0 7.00 50,000 12.5 7.50 15.0 7.00 50,000 3.10 3.10 3.10 3.10 12,500 0.10 0.10 0.10 0.10 400 0.60 0.60 0.60 2,500 2,500 0.20 0.20 0.20 0.20 750 As Read As Read As Read As Read As Read 10.0 6.50 13.5 5.50 40,000	Interval ar GM Interval ar 3ft WO 3ft WC 6in WO 6in WC Background Cartridge (mR/hr) (mR/hr) (mR/hr) (mR/hr) (cpm) (cpm) 0.15 0.15 0.15 0.15 550 As Read 0.30 0.30 0.30 0.30 1,200 As Read As Read As Read As Read As Read As Read As Read 1.55 1.55 1.55 1.55 6,000 As Read 0.40 0.40 0.40 0.40 1,650 As Read 115. 75.0 145. 65.0 > 250,000 > 250,000 12.5 7.50 15.0 7.00 50,000 230,000 3.10 3.10 3.10 3.10 3.10 3.10 3.10 3.10 3.10 12,500 As Read 0.60 0.60 0.60 0.60 2.500 As Read As Read As Read As Read As Read <td>Interval and Measured GM Indine Particulate 3ft WO 3ft WC 6in WO 6in WC Background Cartridge Filter (mR/hr) (mR/hr) (mR/hr) (mR/hr) (cpm) (cpm) (cpm) 0.15 0.15 0.15 0.15 550 As Read As Read 0.30 0.30 0.30 0.30 1,200 As Read As Read As Read As Read As Read As Read As Read As Read 1.55 1.55 1.55 6,000 As Read As Read 0.40 0.40 0.40 0.40 1.650 As Read As Read 115. 75.0 145. 65.0 > 250,000 > 250,000 > 250,000 12.5 7.50 15.0 7.00 50,000 230,000 250,000 3.10 3.10 3.10 3.10 3.10 3.10 3.10 3.10 3.10 3.10 3.10 3.10</td> <td>3ft WO 3ft WC 6in WO 6in WC Background Cantrologe Filter Soli (mR/hr) (mR/hr) (mR/hr) (mR/hr) (mR/hr) (cpm) (cpm) (cpm) 0.15 0.15 0.15 0.15 550 As Read As Read As Read 0.30 0.30 0.30 0.30 1,200 As Read As Read As Read 1.55 1.55 1.55 1.55 6,000 As Read As Read As Read 0.40 0.40 0.40 1,650 As Read As Read As Read 115. 75.0 145. 65.0 > 250,000 > 250,000 24,000 12.5 7.50 145. 65.0 > 250,000 250,000 24,000 12.5 7.50 145. 65.0 > 250,000 250,000 24,000 12.5 7.50 15.0 7.00 50,000 230,000 250,000 1,850 3.10 3.10 <t< td=""></t<></td>	Interval and Measured GM Indine Particulate 3ft WO 3ft WC 6in WO 6in WC Background Cartridge Filter (mR/hr) (mR/hr) (mR/hr) (mR/hr) (cpm) (cpm) (cpm) 0.15 0.15 0.15 0.15 550 As Read As Read 0.30 0.30 0.30 0.30 1,200 As Read As Read As Read As Read As Read As Read As Read As Read 1.55 1.55 1.55 6,000 As Read As Read 0.40 0.40 0.40 0.40 1.650 As Read As Read 115. 75.0 145. 65.0 > 250,000 > 250,000 > 250,000 12.5 7.50 15.0 7.00 50,000 230,000 250,000 3.10 3.10 3.10 3.10 3.10 3.10 3.10 3.10 3.10 3.10 3.10 3.10	3ft WO 3ft WC 6in WO 6in WC Background Cantrologe Filter Soli (mR/hr) (mR/hr) (mR/hr) (mR/hr) (mR/hr) (cpm) (cpm) (cpm) 0.15 0.15 0.15 0.15 550 As Read As Read As Read 0.30 0.30 0.30 0.30 1,200 As Read As Read As Read 1.55 1.55 1.55 1.55 6,000 As Read As Read As Read 0.40 0.40 0.40 1,650 As Read As Read As Read 115. 75.0 145. 65.0 > 250,000 > 250,000 24,000 12.5 7.50 145. 65.0 > 250,000 250,000 24,000 12.5 7.50 145. 65.0 > 250,000 250,000 24,000 12.5 7.50 15.0 7.00 50,000 230,000 250,000 1,850 3.10 3.10 <t< td=""></t<>

Byron E	ercise Field	Data	11/15/95				1	1	1	
Time:	13:58 to	14:1	2							
						CH	Interval a	nd Measured	Collected In in Normal B	This Time ackground
	3ft V	NO	3ft WC	6in WO	6in WC	GM	lodine	Porticulate		
Point	(mR	/hr)	(mR/hr)	(mR/hr)	(mR/hr)	Background (cpm)	Cartridge (cpm)	Filter	Soll	Follage
						(opin)	(cpm)	(cpm)	(cpm)	(cpm)
J1		0.15	0.15	0.15	0.15	500	As Read	An Dood	4.5	
K1		0.30	0.30	0.30	0.30	1,150	As Read	As Read	As Read	As Read
K2	As	Read	As Read	As Read		As Read	and the second se	As Read	the second	As Read
L1		1.45	1.45	1.45	1.45	6,000	As Read	As Read	As Read	As Read
L3		0.40	0.40	0.40	0.40	1,600	As Read	As Read	As Read	As Read
M1	10	00.	60.0	120.	55.0	the same second and a second se	As Read	As Read	As Read	As Read
M11	· · · · · · · · · · · · · · · · · · ·	11.0	6.50	13.0	and the second se	> 250,000	> 250,000	> 250,000	23,500	12,000
V1		2.50	2.50	2.50	6.00	45,000	200,000	215,000	1,850	900
V11	1 1	0.05	0.05	0.05	2.50	10,000	As Read	As Read	As Read	As Read
21		0.50	0.05	and the second se	0.05	300	As Read	As Read	As Read	As Read
2	1	0.15	0.15	0.50	0.50	2,050	As Read	As Read	As Read	As Read
21		0.15	0.15	0.15	0.15	700	As Read	As Read	As Read	As Read
31	Act	Read	AS Per	0.15	0.15	650	As Read	As Read	As Read	As Read
LD 112-3	ASI	8.50		As Head	As Read	As Read	As Read	As Read	As Read	As Read
LD 112-4			5.50	;1.0	4.65	35,000	205,000	220,000	2,500	1,300
LD 113-1		7.50	4.65	9.00	4.15	30,000	125,000	135,000	2,300	1,150
LD 113-1	A	0.05	0.05	0.05	0.05	300	As Read	As Read	As Read	As Read
LD 314-1		Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
	Contraction of the local division of the loc	Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
IR 24		0.10	0.10	0.10	0.10	500	As Read	As Read	As Read	As Read

ENVIRONS TEAM MESSAGE ET-9

TIME: 1200 - 1400 (T+270 - T+390)

ISSUED TO: ENVIRONS TEAM BETWEEN 1 AND 10 MILES OF BYRON STATION (OFFSITE TEAM(S))

PREREQUISITE: DISPATCHED BY TSC OR EOF

MESSAGE

"THIS IS AN EXERCISE : ATTACHED is environmental monitoring data for areas between 1 and 10 miles of Byron Station."

Byron E	xerci	se Fiel	ld Data 11/15/	95 for locatio	ns BEY	OND ON	E MILE	from station.
Notes:								
1.	lf an a	rrival tim	e is specified, mea	sured results will	be "as rea	d" before	the specifie	d arrival time
	For lo	cations n	ot specified here, profile plot.					
3.			Int Locations:					
		TLD 212-	1" denotes ComE	d TLD location 21	2-1.			
		AIR 07" (RS-L" de	denotes ComEd ai notes Illinois Dep	sampler 07. Artment of Nuclea	Safety Re	uter-Stoke	e detector l	a castar l

Byron Ex	ercise f	ield Data	11/15/95	T	1	1		1		
		to 12:1								
NOTE: N	leasure	t results w	vill be "as	read" befo	re the spe	cified arrival t	ime.			
							Count Ra Interval a	te of Sample nd Measured	Collected Ir In Normal B	This Time ackground
	Arrival	3ft WO	3ft WC	Ci- 100	a: 1110	GM	lodine	Particulate		
Point	Time	(mR/hr)	(mR/hr)	6in WO	6in WC	Background	Cartridge	Filter	Soil	Follage
. onn	THIC	Tunnini	(meon)	(mR/hr)	(mR/hr)	(cpm)	(cpm)	(cpm)	(cpm)	(cpm)
L12	12:03	1.15	0.70	1.20	0.65	4 500	05 000			
L13	12:09	As Read		As Read		1000	25,000		550	
_14	12:11	As Read	As Read	0.05		As Read	As Read		As Read	As Read
M12	12:05	8.50	5.00	9.00		As Read	4,000	4,000	As Read	As Read
V13	12:10	17.5	10.5	19.00		35,000	165,000		3,500	1,750
M14	12:12	As Read	As Read		10.0	70,000	> 250,000	> 250,000	7,000	3,500
M16	12:12	As Read	As Read	As Read	As Read	As Read	350	400	As Read	As Read
112	12:08	19.5	the second se	As Read	As Read	As Read	As Read	As Read	As Read	As Read
113	12:10	7.00	11.0	20.5	11.0	75,000	> 250,000	> 250,000	7,000	3,500
114	++	the second s	4.00	7.50	3.80	25,000	140,000	150,000	3,000	1,500
114	12:12	As Read	As Read	As Read	As Read	As Read	500	550	As Read	As Read
IS-L	12:06	4.10	2.40	4.35	2.30	16,500	70,000	75 000	4 800	
IS-M	12:09	37.0	21.5	39.5	20.5	150,000	> 230,000	75,000	1,500	750 6,500

Time:	12:13	to 12:2	7							
NOTE .	1		L							
NOTE: I	an arriv	al time is	specified,	measured	results wi	li be "as read"	before the s	pecified arriv	vai time	
	+						1.			
							Interval a	te of Sample nd Measured	Collected in In Normal B	This Time
	Arrival	3ft WO	04 100	01- 1110		GM	lodine	Particulate		
Point	Time		3ft WC	6in WO	6in WC	Background	Cartridge	Filter	Soll	Follage
7 Unit	inne	(mR/hr)	(mR/hr)	(mR/hr)	(mR/hr)	(cpm)	(cpm)	(cpm)	(cpm)	(cpm)
L12	1	0.80	0.50	0.95	0.45					
L14	1	As Read	As Read		0.45		17,000	18,000	300	450
M12		6.00	3.65	and the second se	As Read	As Read	4,500	4,500	As Read	As Read
M13		12.0	7.50		3.25	23,500	110,000	120,000	6,000	3,000
M14		4.25	2.50	4.65	7.00	50,000	220,000	235,000	11,500	5,500
M15	12:21	4.65	2.75		2.35	17,000	110,000	115,000	2,250	1,150
M16	Tain T	15.5	9.00	a second s	2.60	18,500	115,000	125,000	2,450	1,200
M17	12:26	0 30	0.20	16.5	8.50	60,000	> 250,000	> 250,000	5,500	2,500
M18	12:25	4.30	2.55	0.35	0.15	1,250	12,000	12,500	As Read	As Read
M19	12:27	As Read	As Read	4.70	2.40	17,000	110,000	120,000	2,300	1,150
M20	12:27	0.15	0.10	As Read	As Read	As Read	300	300	As Read	As Read
M21	12:27	As Read	As Read	0.20	0.10	650	8,000	8,500	As Read	As Read
M24	12:27	As Read	and an	As Read	As Read	As Read	550	600	As Read	As Read
V12	\$6.65	13.0	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
V13		and the second se	8.00	15.0	7.50	55,000	220,000	235,000	11,500	5,500
V14		4.80	2.95	5.50	2.65	19,000	95,000	105,000	5,000	2,500
116	12:21	0.10	0.10	0.15	0.05	500	11,000	12,000	As Read	As Read
17		0.15	0.10	0.20	0.10	650	8,000	8,500	As Read	As Read
119	12:21	As Read	As Read	As Read	As Read	As Read	1,100	1,150	As Read	As Read
120	12:25	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
120	12:27	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
	12:27	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
LD 212-1	12:21	5.50	3.20	6.00	3.05	22,000	120,000	130,000	2,500	1,250
LD 212-4		6.00	3.65	6.50	3.45	25,000	135,000	145,000	3,000	1,400
LD 213-4	12:20	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
IS-L		2.80	1.70	3.25	1.55	11,000	45,000	50.000	0.000	
IS-M		25.5	15.5	29.0	14.0	100,000	> 250,000	50,000 > 250,000	2,450 21,500	1,250

THIS IS AN EXERCISE

Rev. 0, 8/30/95

Time:	12:28	3 to 12:4	2							
NOTE -	an arri	vai tima la	openified	1						<u>†</u>
HUTE. I	l	val tille 13	specified,	measured	results w	ill be "as read"	before the s	pecified arriv	val time.	
							Interval a	te of Sample	Collected In In Normal B	This Time ackground
	Arriva	3ft WO	3ft WC	6in WO	01-1410	GM	lodine	Particulate		
Point	Time	(mR/hr)	(mR/hr)		6in WC	Background	Cartridge	Filter	Soll	Foliage
	Time	Tunnin	(men/m)	(mR/hr)	(mR/hr)	(cpm)	(cpm)	(cpm)	(cpm)	(cpm)
L12	1	0.50	0.35	0.70	0.30	0.050	10.000			
L14	1	As Read	As Read	0.10	As Read	2,050 As Read	10,000	10,500	1,100	550
M12		3.80	2.55	5.00	2.10	and the second se	2,500	3,000	As Read	As Read
M13	1	8.00	5.00	10.5	4.30	15,000	65,000	70,000	7,000	3,500
M14	1	3.00	1.90	3.65	the supervised and the second s	30,000	130,000	140,000	14,000	7,000
M15	1	3.30	2.05	4.00	1.65	12,000	75,000	80,000	4,000	1,850
Mio	1	10.5	6.50	12.0	and the second se	13,000	80,000	85,000	4,000	2,000
M17		0.25	0.15	0.30	6.00	40,000	170,000	185,000	9,000	4,500
M18		3.05	1.90	3.70	0.15	950	9,500	10,000	450	As Read
M19	1	0.15	0.10	and the second	1.70	12,000	80,000	85,000	4,000	1,950
420		2.20	1.30	0.15	0.05	500	12,000	12,500	As Read	As Read
A21		2.55	1.50	the second se	1.20	9,000	70,000	75,000	1,600	800
122	12:34	As Read	As Read	2.80	1.40	10,000	70,000	75,000	1,400	700
123	12:37	0.10	0.10	As Read	As Read	As Read	As Read	As Read	As Read	As Read
124	16.01	2.25	1.35	0.20	0.05	500	17,000	18,000	350	As Read
125	12:39	As Read	As Read	and the second se	1.25	9,000	90,000	95,000	1,800	900
126	12:40	As Read	500	500	As Read	As Read				
127	12:40	0.55	0.35	As Read	As Read	As Read	1,300	1,400	As Read	As Read
128	12:41	0.35	0.05	0.70	0.30	2,200	35,000	40,000	700	350
129	12:42	As Read	As Read	0.15	0.05	400	19,000	20,500	400	As Read
130	12:42	As Read	As Pead	As Read	As Read	As Read	As Read	As Read	As Read	As Read
131	12:42	0.95	and an other statements and an other statements and	As Read	As Read	As Read	2,500	2,500	As Read	As Read
32	12:42	0.95	0.55 As Read	1.05	0.50	3,500	35,000	35,000	700	350
12	12.42	8.50	and the second se	0.10	As Read	250	11,500	12,000	As Read	As Read
13		and the second se	5.50	11.0	4.60	35,000	130,000	140,000	14,000	7,000
14		3.15	2.10	4.20	1.70	12,500	60,000	60,000	6,000	3,000
16		0.10	0.10	0.15	0.05	450	7,500	8,000	400	As Read
10		0.10	0.10	0.15	0.05	500	5,500	5,500	250	As Read

THIS IS AN EXERCISE

Time:	12:28	to 12:4	2				Count Ra Interval a	Count Rate of Sample Collected In This Time Interval and Measured in Normal Background				
	Arrival	3ft WO	3ft WC	6in WO	6in WC	GM	lodine	Particulate		uenground		
Point	Time	(mR/hr)	(mR/hr)	(mR/hr)		Background	Cartridge	Filter	Soll	Foliage		
		(((man 1/ mar)	(mR/hr)	(cpm)	(cpm)	(cpm)	(cpm)	(cpm)		
N17		As Read	As Read	As Read	As Read	As Dead						
N19		As Read					750	800	As Read	As Read		
N20		As Read	As Read				As Read	As Read	As Read	As Read		
N21		As Read	As Read			As Read	As Read	250	As Read	As Read		
N22	12:36	As Read	and the second sec				As Read	As Read		As Read		
N23	12:35	the second	As Read	As Read		As Read	3,500	3,500	As Read	As Read		
N25	the second se	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read		
N27	12:40	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	a complete the second		
the second s	12:42	As Read	As Read	As Read	As Read	As Read	As Read	As Read		As Read		
1LD 212-1		3.80	2.35	4.50	2.10	15,000	80,000	85,000		As Read		
TLD 212-4		4.35	2.70	5.00	2.40	17,500	95,000	100,000	4,000	2,100		
TLD 213-4		As Read	As Read	As Read	As Read	As Read	As Read	the second se	4,500	2,350		
AIR 07	12:35	As Read	As Read	As Read	As Read	As Read		As Read	As Read	As Read		
					norroad	As nedu	5,000	5,500	As Read	As Read		
RS-L		1.80	1.15	2.30	1.00	7,000	20.000					
RS-M		16.0	10.5	20.5	9.00		30,000	30.000	3,000	1,500		
	These in an inclusion of the			20.0	9.001	65,000	245,000	> 250,000	25,000	13,000		

Time:	12:43 to 12:5	7							
NOTE: If	an arrival time is	specified	moneurod		11 ha 11aa awa 11				
		Specifica,	Incasuleu	resuits w	in be as read	Defore the s	pecified arri	val time.	
						Interval a	nd Measured	Collected in I in Normal B	This Time ackground
	00.000				GM	lodine	Particulate		
Point	3ft WO	3ft WC	6in WO	6in WC	Background	Cartridge	Filter	Soll	Follage
Point	(mR/hr)	(mR/hr)	(mR/hr)	(mR/hr)	(cpm)	(cpm)	(cpm)	(cpm)	(cpm)
L12	0.35	0.25	0.55	0.20	1,400	5,500	6,000	1 000	
L14	As Read	As Read		and strength of the strength o	As Read	1,500	1,600	1,200	60
M12	2.50	1.85	and the second se	1.35	10,000	35,000	40,000	250 8,000	As Read
M13	5.00	3.70	7.50		20,500	70,000	75,000	And in the owner of the owner owne	4,000
M14	2.00	1.35	2.80	1.10	8,000	45,000	45,000	15,500	7,500
M15	2.20	1.50	3.05	1.20	9,000	45,000	50,000	4,500	2,300
M16	6.50	4.30	8.50	3.65	25,000	100,000	110,000	5,000	2,450
M17	0.15	0.10	0.25	0.10	650	5,500	6,000	11,000	5,500
M18	2.05	1.40	2.85	1.10	8,000	45,000	50,000	550	250
M19	0.10	0.10	0.20	0.05	450	8,000	8,500	5,000 400	2,400
M20	1.60	1.00	2.00	0.85	6,500	45,000	50,000	2,500	As Read
M21	1.80	1.15	2.20	1.00	7,000	45,000	50,000	2,350	1,250
122	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	1,150
A23	0.10	0.10	0.20	0.05	500	11,500	12,000	550	As Read
124	1.65	1.10	2.15	0.90	6,500	60,000	65,000	3,000	300
125	As Read	As Read	As Read	As Read	As Read	350	400	As Read	1,500
126	As Read	As Read	As Read	As Read	As Read	1,100	1,200	As Read	As Read As Read
127	0.45	0.30	0.65	0.25	1,800	25,000	25,000	1,200	AS Head 600
128	0.10	0.10	0.25	0.05	450	15,500	16,500	700	350
129	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
130	As Read	As Read	0.05	As Read	As Read	7,000	7,500	As Read	As Read
131	0.75	0.50	1.00	0.40	3,000	35,000	40,000	1,400	700
132	1.35	0.85	1.60	0.75	5,500	55,000	55,000	1,300	650
12	5.50	3.90	8.00	2.95	22,000	75,000	80,000	15,500	restation of the second s
13	2.10	1.55	3.25	1.10	8,500	30,000	35,000	7,000	8,000
14	0.10	0.10	0.15	As Read	350	4,500	4,500	500	3,500
16	0.10	0.05	0.15	As Read	350	3.000	3,500	350	As Read As Read

Time: 12:	43 to 12:5	7				Count Ra Interval a	te of Sample nd Measured	Collected In I In Normal B	This Time ackground
	3ft WO	3ft WC	Cin MO	01- 100	GM	lodine	Particulate		
Point	(mR/hr)		6in WO	6in WC	Background	Cartridge	Filter	Soll	Follage
	(inci/in)	(mR/hr)	(mR/hr)	(mR/hr)	(cpm)	(cpm)	(cpm)	(cpm)	(cpm)
N17	As Read	As Read	As Read	As Read	As Read	150			
N19	As Read	As Read	As Read			450			As Read
N20	As Read		and the second data is not the second data and the second data is not the second data and t			As Read	As Read	As Read	As Read
N21	the second s		As Read	As Read		As Read	As Read	As Read	As Read
N22	As Read	As Read	As Read		As Read	As Read	As Read	As Read	As Read
a construction of the second se	As Read	As Read	As Read	As Read	As Read	2,250	2,400		As Read
N23	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
N25	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	the second se
N27	As Read	As Read	As Read	As Read	As Read	As Read	As Read		As Read
TLD 212-1	2.50	1.65	3.35	1.35	10,000	50,000	50,000	As Read	As Read
TLD 212-4	2.85	1.90	3.80	1.55	11,500	55,000	the second is belowed a distance beaming assessed in the second sec	5,000	2,500
TLD 213-4	As Read	As Read	As Read	As Read	As Read	The second	60,000	6,000	3,000
AIR 07	As Read	As Read	0.05	As Read	the second se	As Read	As Read	As Read	As Read
		rioricau	0.05	ns neau	As Read	3,500	3,500	As Read	As Read
RS-L	1.15	0.85	1.70	0.60	4,500	15,500	16 500	0.000	
RS-M	10.5	7.50	15.5	5.50	40,000	135,000	16,500	3,500	1,650

Time:	12:58 to 13:	12							
						Interval a	te of Sample	Collected in I in Normal B	This Time lackground
	24 180	00000			GM	lodine	Particulate		1
Point	3ft WO	3ft WC	6in WO	6in WC	Background	Cartridge	Filter	Soll	Follage
POIN	(mR/hr)	(mR/hr)	(mR/hr)	(mR/hr)	(cpm)	(cpm)	(cpm)	(cpm)	(cpm)
L12	0.30	0.25	0.50	0.15	1,100	3,500	1 000	1 050	
L14	As Read	and the second se			As Read	900	4,000	1,250	650
M12	1.95		3.35	1.05	8,000	the second se	1,000	250	As Read
M13	3.95		6.50	2.10	16,000	23,500	25,000	8,500	4,000
M14	1.35		2.20	0.75	5,500	45,000	50,000	16,000	8,000
M15	1.50		2.40	0.80	the second se	24,000	25,000	5,000	2,500
M16	4.25	1	6.50	2.30	6,000 17,000	25,000	30,000	5,500	2,500
M17	0.15		0.25	0.05	500	55,000	60,000	12,000	6,000
M18	1.40	and the second se	2.30	0.05	and the second	3,000	3,500	600	300
M19	0.10	the second se	0.20	As Per	5,500 400	25,000	30,000	5,500	2,500
M20	1.10		1.60	0.60	4.500	4,500	5,000	500	As Read
M21	1.20	0.85	1.70	0.65	the second se	25,000	30,000	3,000	1,500
M23	0.10	0.10	0.25	0.05	5,000	30,000	30,000	3,000	1,450
A24	1.20	0.85	1.80	0.65	450	6,500	7,000	700	350
125	As Read	As Read	As Read	As Read	and the second se	35,000	40,000	3,500	1,800
126	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
127	0.35	0.25	0.60	0.20	As Read	700	750	As Read	As Read
128	0.10	0.10	0.25	0.20	1,400	15,000	16,000	1,500	750
(29	As Read	As Read	As Read	As Read	the second se	9,500	10,000	850	450
130	As Read	As Read	0.10	As Read	As Read	As Read	As Read	As Read	As Read
131	0.55	0.40	0.85	0.30	As Read	4,500	5,000	250	As Read
132	1.00	0.40	1.35	0.55	2,250	23,000	25,000	1,850	950
112	4.20	3.20	7.00	2.20	4,000	35,000	40,000	1,950	1,000
13	1.65	1.30	2.85	0.85	16,500	45,000	50,000	16,500	8,000
14	0.10	0.05	0.15	As Read	6,500	21,000	22,500	7,000	3,500
16	0.05	0.05	0.15		300	2,450	2,500	550	250
17	As Read	As Read	a land the second se	As Read	300	1,750	1,900	350	As Read
19	As Read	As Read	As Read	As Read	As Read	As Read	250	As Read	As Read
20	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
	As nedu	AS nead	As Read	As Read	As Read	As Read	As Read	As Read	As Read

THIS IS AN EXERCISE

Time: 12:	58 to 13:1	2				Count Ra Interval a	te of Sample nd Measured	Collected In I in Normal B	This Time
Point	3ft WO (mR/hr)	3ft WC (mR/hr)	6in WO (mR/hr)	6in WC (mR/hr)	GM Background	lodine Cartridge	Particulate Filter		Foliage
	p,	<u></u>	(month)	linu/m)	(cpm)	(cpm)	(cpm)	(cpm)	(cpm)
N21	As Read	As Read	As Read	As Read	As Read	A. D			
N22	As Read	As Read				As Read			
N25	As Read	As Read	As Read	As Read		1,300	1,400	As Read	As Read
N27	As Read	As Read	As Read	and the second se		As Read	As Read	As Read	As Read
TLD 212-1	1.65	1.25	2.60	As Read	- to riodo	As Read	As Read	As Read	As Read
TLD 212-4	1.90	1.40	and the second se	0.90	6,500	25,000	30,000	5,500	3,000
TLD 213-4	As Read	As Read	2.95	1.00	7,500	30,000	35,000	6.500	3,000
AIR 07	As Read	the barries in the second s	As Read	As Read	As Read	As Read	As Read	As Read	Ac Read
	As head	As Read	0.05	As Read	As Read	2,050	2,200	As Read	r ead
RS-L	0.90	0.70	1 50						Cau
RS-M	8.00		1.50	0.45	3,500	10,000	11,000	3,500	1,750
<u></u>	0.00	6.00	13.0	4.20	30,000	90,000	95,000	30,000	15,500

Time:	13:13 to 13:	27					1		1	
						Count Rate of Sample Collected in This 1 Interval and Measured in Normal Backgro				
	3ft WO	3ft WC	01-1110		GM	lodine	Particulate		1	
Point	(mR/hr)		6in WO	6in WC	Background	Cartridge	Filter	Soll	Follage	
· om	(mo/m)	(mR/hr)	(mR/hr)	(mR/hr)	(cpm)	(cpm)	(cpm)	(cpm)	(cpm)	
L12	0.25	0.20	0.45	0.15	1 000	-				
L14	As Read		0.10	and the second se	1,000	3,000		1,300	650	
M12	1.75		and the second se	0.90	As Read	700		300	As Read	
M13	3.55	and the second sec	6.50	and the second se	7,000	19,000	20,500	8,500	4,500	
M14	1.10		2.00		14,000	40,000	the second	17,000	8,500	
M15	1.20	and the second se	2.00	0.60	4,500	15,500	16,500	5,500	2,500	
M16	3.25		5.50	0.65	5,000	17,000	18,000	5,500	3,000	
M17	0.10	the second se	the second s	1.75	13,000	35,000	40,000	12,500	6,500	
M18	1.15	the second s	0.20	0.05	450	2,000	2,150	650	300	
V19	0.10	And the second se	2.05	0.60	4,500	17,000	18,000	5,500	3,000	
M20	0.80		0.15	As Read	350	2,500	3,000	550	250	
M21	0.85	2410 E. 2018	1.30	0.40	3,000	15,500	16,500	3,500	1,650	
123	0.10	0.65	1.35	0.45	3,500	15,500	16,500	3,000	1,600	
124	0.85	0.70	0.25	0.05	400	4,000	4,000	750	400	
125	As Read	As Read	and the local design of th	0.45	3,500	19,500	21,000	4,000	2,000	
126	As Read		As Read	As Read	As Read	As Read	As Read	As Read	As Read	
127	0.30	As Read	As Read	As Read	As Read	400	400	As Read	As Read	
128	0.10	0.25	0.55	0.15	1,150	8,000	9,000	1,650	800	
129	the second descent of the second descent	0.10	0.30	0.05	500	5,500	5,500	950	500	
130	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	
131	As Read	As Read	0.10	As Read	As Read	2,500	3,000	300	As Read	
132	0.45	0.35	0.80	0.25	1,700	13,000	14,000	2,100	1,050	
132	0.70	0.50	1.10	0.40	3,000	20,500	22,000	2,350	1,150	
13	3.70	2.95	6.50	1.95	15,000	40,000	40,000	17,000	8,500	
	1.50	1.20	2.70	0.75	6,000	16,500	18,000	7,500	3,500	
14	0.10	0.05	0.15	As Read	300	1,600	1,750	550	300	
16	0.05	0.05	0.15	As Read	250	1,150	1,250	400	As Read	
17	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	
19	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	
20	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	

THIS IS AN EXERCISE

Time: 13	:13 to 13:2	7				Count Ra Interval a	te of Sample nd Measured	Collected In I in Normal B	This Time
Point	3ft WO (mR/hr)	3ft WC (InR/hr)	6in WO (mR/hr)	6in WC (mR/hr)	GM Background (cpm)	lodine Cartridge (cpm)	Particulate Filter (cpm)		Follage
N21	As Read	As Read	As Read					(opin)	(cpm)
N22	As Read	As Read	As Read			As Read	As Read	As Read	As Read
N25	As Read	As Read	and the second sec			750	800	As Read	As Read
N27	As Read	As Read		As Read		As Read	As Read	As Read	As Read
TLD 212-1	1.30	1.05			As Read	As Read	As Read	As Read	As Read
TLD 212-4	1.50	1.00	2.30	0.70	5,500	17,500	19,000	6,000	3,000
TLD 213-4	As Read	As Read	2.60	0.80	6,000	20,000	21,500	6,500	3,500
AIR 07	As Read	and the second se	As Read	As Read	As Read	As Read	As Read	As Read	As Read
	AS REAU	As Read	0.05	As Read	As Read	1,150	1,200	As Read	As Read
RS-L	0.80	0.65	1.40	0.40	3,000	0.000			13 11880
RS-M	7.00	5.50	12.5	3.70	30,000	8,000	8,500	3,500	1,850
1.1.1.1.1.1.1.1.1				0.701	30,000	70,000	75,000	30,000	16,000

Time:	13:28 to 13	:42							
						Count Rate of Sample Collected Interval and Measured in Norma			This Time lackground
	3ft WO	3ft WC	6in WO	6in WC	GM	lodine	Particulate		
Point	(mR/hr)	(mR/hr)	(mR/hr)		Background	Cartridge	Filter	Soll	Follage
		((unit/m)	(mR/hr)	(cpm)	(cpm)	(cpm)	(cpm)	(cpm)
L12	0.1	0.20	0.45	0.15	050	0.050			
L14	As Rea				950	2,250	2,400	1,350	700
M12	1.0			0.85	As Read	600		300	As Read
M13	3.3	the second s		1.65	6,500	14,500	16,000	9,000	4,500
M14	0.9			0.50	12,500	30,000	30,000	17,500	8,500
M15	1.0			0.55	4,000	12,000	13,000	5,500	3,000
M16	2.6			1.40	4,000	13,000	14,000	6,000	3,000
M17	0.1	the second s	0.20	As Read	10,500	30,000	30,000	13,000	6,500
M18	1.0		1.95	0.50	400	1,600	1,750	650	350
M19	0.1		0.15	As Read	4,000	13,500	14,500	6,000	3,000
M20	0.6	the second s	1.20	0.35	300	1,650	1,800	600	300
M21	0.5		1.10	0.30	2,500	10,000	11,000	3,500	1,750
M23	0.1		0.25	0.05	2,250	9,500	10,500	3,500	1,650
M24	0.7		1.40	0.05	400	2,300	2,500	800	400
125	As Rea		As Read	As Read	3,000	12,000	13,000	4,000	2,100
126	As Rea		As Read	As Read	As Read	As Read	As Read	As Read	As Read
127	0.2		0.55	0.15	As Read	250	300	As Read	As Read
128	0.1		0.30	0.15	1,000	5,500	5,500	1,750	850
129	As Rea		As Read	As Read	500	3,500	4,000	1,000	500
130	As Rea		0.10	As Read	As Read	As Read	As Read	As Read	As Read
131	0.4		0.75		As Read	1,650	1,800	350	As Read
132	0.5		1.00	0.20	1,600	9,000	9,500	2,250	1,150
112	3.3	and the second se	and the second se	0.30	2,250	12,500	13,500	2,500	1,300
113	1.30	and the second se	6.00 2.60	1.75	13,500	30,000	30,000	17,500	9,000
14	0.10	and the second se	and the second se	0.70	5,500	13,000	14,000	7,500	4,000
16	0.05		0.15	As Read	300	1,400	1,500	600	300
17	As Read		0.15	As Read	As Read	850	950	400	As Read
19	As Read	and the second se	As Read	As Read	As Read	As Read	As Read	As Read	As Read
20	As Read		As Read	As Read	As Read	As Read	As Read	As Read	As Read
	As nead	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read

Time: 13	:28 to 13:4	2				Count Ra Interval a	te of Sample nd Measured	Collected In I in Normal B	This Time ackground
Point	3ft WO (mR/hr)	3ft WC (mR/hr)	6in WO (mR/hr)	6in WC (mR/hr)	GM Background (cpm)	lodine Cartridge (cpm)	Particulate Filter (cpm)		Foliage (cpm)
N21	As Read	As Read	As Read	As Read	As Read	An Dood	4.0.1		
N22	As Read	As Read				As Read			
N25	As Read	As Read		As Read	As Read	450	500		As Read
N27	As Read	As Read	As Read			As Read	As Read	As Read	As Read
TLD 212-1	1.15	0.95	the second se	As Read	As Read	As Read	As Read	ns Read	As Read
TLD 212-4		and the second se	2.15	0.60	4,500	13,000	14,500	6,000	3,000
AIR 07	1.30	1.05	2.45	0.65	5,000	15,000	16,000	7,000	3,500
AINUT	As Read	As Read	0.05	As Read	As Read	700	750	As Read	As Read
RS-L	0.70	0.60	1.35	0.40	2 000				
RS-M	6.50	5.00			3,000	6,000	6,500	4,000	1,900
	0.001	5.00	11.5	3.30	25,000	55,000	60,000	35,000	16,500

Time:	13:43 to 13:5	57							1
						Interval a	nd Measured	Collected Ir I in Normal B	This Time Background
	00.000				GM	lodine	Particulate		1
Datat	3ft WO	3ft WC	6in WO	6in WC	Background	Cartridge	Filter	Soll	Foliage
Point	(mR/hr)	(mR/hr)	(mR/hr)	(mR/hr)	(cpm)	(cpm)	(cpm)	(cpm)	(cpm)
L12	0.25	0.20	0.45	0.10	950	2,250	2,450	1 400	
L14	As Read	As Read		As Read	As Read	600		1,400	and the second se
M12	1.55		the second s	0.80	6,000	14,000		300	
M13	2.80			1.45	11,500	23,000	15,000	9,000	And the second s
M14	0.90	and the second sec	and show of the local distance of the local	0.45	3,500	10,500	25,000	18,000	
M15	1.00			0.50	4,000	10,000	11,500	6,000	
M16	2.55	and the second sec	4.75	1.35	10,500	21,500	10,500	6,000	3,000
M17	0.10	0.10	0.20	0.05	400	1,400	23,000	13,500	6,500
M18	0.95	0.85	1.95	0.50	4,000	10,500	1,500	700	350
M19	0.05	0.05	0.15	As Read	300	and the second s	11,500	6,000	3,000
M20	0.65	0.55	1.20	0.35	2,500	1,400 8,500	1,500	600	300
M21	0.65	0.55	1.25	0.35	2,500	7,500	9,000	3,500	1,850
M23	0.10	0.10	0.25	0.05	400	A COLORADO CONTRACTOR OF A COLORADO CONTRACTOR OF A COLORADO CONTRACTOR OF A COLORADO CONTRACTOR A COLORADO CONTRACT	8,500	3,500	1,750
124	0.70	0.60	1.40	0.35	3,000	1,900	2,050	850	400
A25	As Read	As Read	As Read	As Read	As Read	9,500 As Read	10,000	4,500	2,200
A26	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
127	0.25	0.25	0.55	0.10	1,000	4,500	250	As Read	As Read
128	0.15	0.10	0.30	0.05	500	2,500	4,500	1,800	900
129	As Read	As Read	As Read	As Read	As Read	As Read	3,000	1,050	550
130	As Read	As Read	0.10	As Read	As Read	1,450	As Read	As Read	As Read
131	0.40	0.35	0.75	0.20	1,500	and the second	1,550	400	As Read
132	0.65	0.50	1.10	0.35	2,500	7,500	8,500	2,400	1,200
112	2.95	2.55	6.00	1.50	11.500	9,500	10,500	3,000	1,400
113	1.20	1.05	2.45	0.60	5,000	23,500	25,000	18,000	9,000
114	0.05	0.05	0.15	As Read	300	9,500	10,500	8,000	4,000
116	0.05	0.05	0.10	As Read	As Read	1,050	1,100	600	300
17	As Read	As Read	As Read	As Read	As Read	600	650	400	As Read
19	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read	As Read
20	As Read	As Read	As Read	As Read	As Read	As Read As Read	As Read As Read	As Read As Read	As Read As Read

THIS IS AN EXERCISE

Time: 13:43 to 13:57						Count Rate of Sample Collected In This Time Interval and Measured in Normal Background				
Point	3ft WO (mR/hr)	3ft WC (mR/hr)	6in WO (mR/hr)	6in WC (mR/hr)	GM Background (cpm)	lodine	Particulate Filter (cpm)	Soll (cpm)	Follage (cpm)	
N22	As Read	As Read	As Read	As Read	4.5				(opin)	
N25	As Read	As Read				300	000	As Read	As Read	
N27	As Read					As Read	As Read	As Read	and the later of the second seco	
TLD 212-1	1.05		As Read		As Read	As Read	As Read	As Read	As Read	
TLD 212-4	1.03	0.90		0.55	4,500	10,000	11,000	6,500	3,000	
AIR 07	the second se	1.05			5,000	11.500	12,500	7,000	3,500	
SH U/	As Read	As Read	0.05	As Read	As Read	500	550	250	As Read	
RS-L	0.65	0.55	1.05	0.05					/13 Heau	
RS-M	5.50		1.25	0.35	2,500	5,500	6,000	4,000	1,950	
	3.50	4.75	11.0	2.85	22,000	45,000	50,000	35,000	17,000	

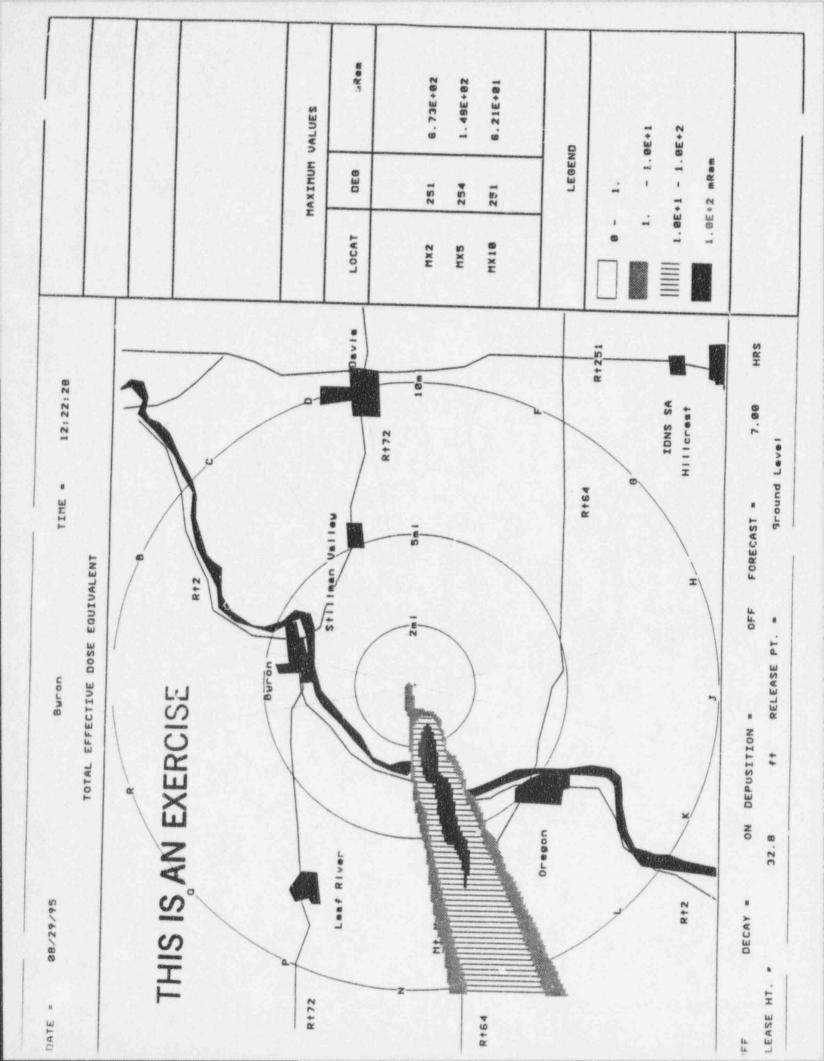
Time:	13:58 to 14:1									
		3ft WC	6in WO	6in WC	GM Background	Count Rate of Sample Collected in This Ti Interval and Measured in Normal Backgrou				
	3ft WO					lodine	Particulate	1	Follage	
	(mR/hr)					Cartridge	Filter	Soll		
r onn	(mm/m/	(mR/hr)	(mR/hr)	(mR/hr)	(cpm)	(cpm)	(cpm)	(cpm)	(cpm)	
L12	0.25	0.20	0.50	0.15	1,050	3,000	0.000			
L14	As Read			As Read	As Read	750	3,000	1,450	700	
M12	1.65		and the second se	0.85	6,500	and the second se	800	300	As Read	
M13	2.70			1.35	10,500	14,500	16,000	9,500	4,500	
M14	0.95	and the second		0.50	and the second se	16,000	17,500	18,000	9,000	
M15	0.90		and the second se	0.30	4,000	9,000	9,500	6,000	3,000	
M16	2.30	1.95	4.50	1.20	3,500	9,000	9,500	6,500	3,000	
M17	0.10	0.10	0.20	0.05	9,000	19,000	20,500	14,000	7,000	
M18	1.00	0.85	2.00	0.05	450	1.650	1,750	700	350	
M19	0.10	0.10	0.20	As Read	4,000	10,000	10,500	6,000	3,000	
M20	0.60	0.50	1.20	0.30	350	1,250	1,350	650	300	
M21	0.55	0.45	1.10	the owner was an end of the owner was a second set of the second	2,350	6,500	7,000	4,000	1,900	
M23	0.10	0.10	0.25	0.25	2,100	5,000	5,000	3,500	1,800	
M24	0.60	0.55	1.35	0.05	400	1,850	2,000	850	450	
M25	As Read	As Read	As Read	As Read	2,500	6,500	7,000	4,500	2,250	
126	As Read	As Read	As Read	and the second se	As Read	As Read	As Read	As Read	As Read	
127	0.25	0.25	0.55	As Read	As Read	As Read	250	As Read	As Read	
128	0.10	0.25	0.30	0.15	1,000	4,000	4,000	1,850	950	
129	As Read	As Read		0.05	500	1,600	1,750	1,100	550	
130	As Read	As Read	As Read	As Read						
131	0.45	0.35	0.10	As Read	As Read	1,300	1,400	400	As Read	
132	0.45	and the second se	0.85	0.20	1,700	6,000	6,500	2,500	1,250	
112	2.80	0.40	0.90	0.20	1,700	6,500	7,000	3,000	1,450	
113	and the second se	2.45	6 00	1.45	11,000	16,500	18,000	18,500	9,000	
14	1.10	1.00	2.40	0.55	4,500	6,000	6,500	8,000	4,000	
116	0.05	0.05	0.15	As Read	300	400	450	600	300	
117	0.05	As Read	0.10	As Read	As Read	400	400	400	As Read	
20	As Read	As Read	As Read	As Read						
and the second se	As Read	As rlead	As Read	As Read						
22	As Read	As Read	As Read	As Read						

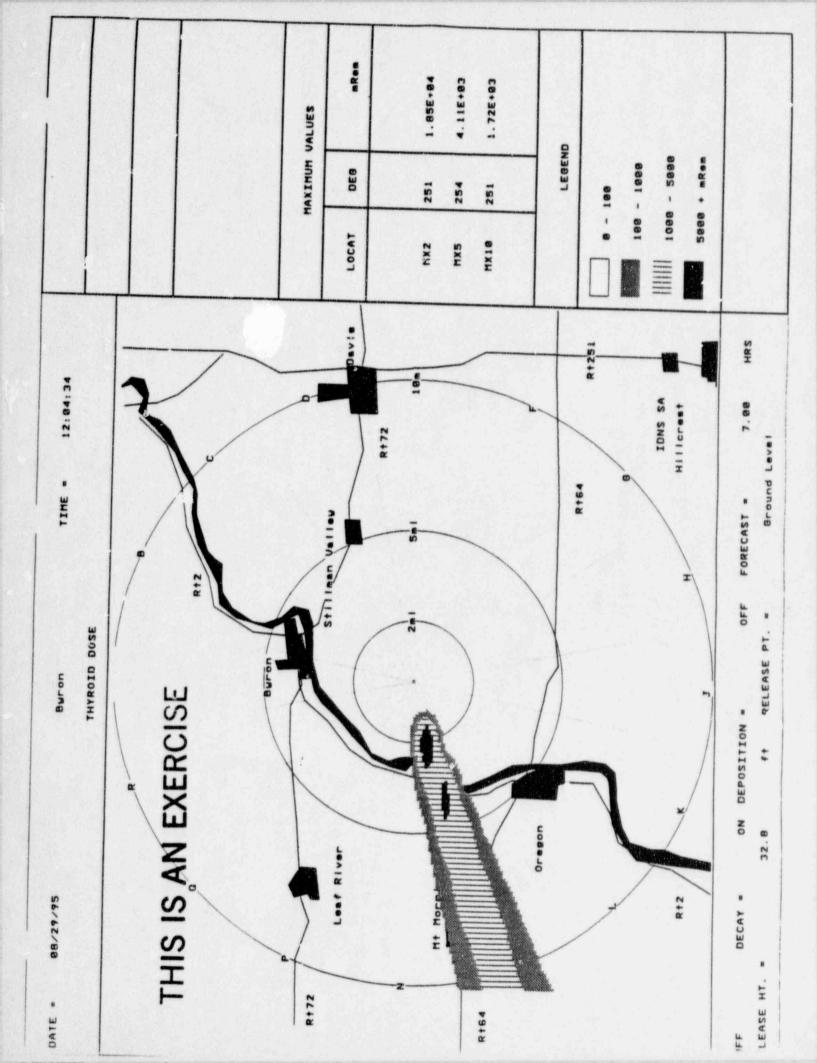
THIS IS AN EXERCISE

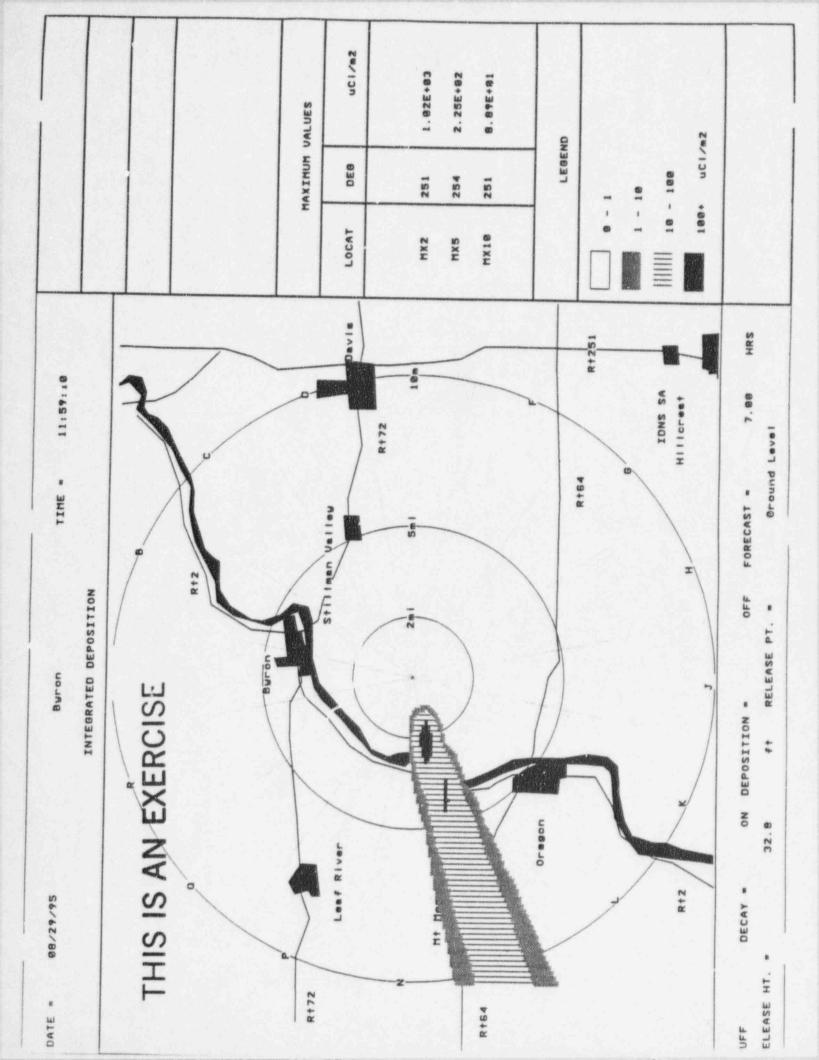
Time: 13:58 to 14:12						Count Rate of Sample Collected in This Time Interval and Measured in Normal Background				
Point	3ft WO (mR/hr)	3ft WC (mR/hr)	6in WO (mR/hr)	6in WC (mR/hr)	GM Background	Cartridge	Particulate Filter		Follage	
			univity	(me/m)	(cpm)	(cpm)	(cpm)	(cpm)	(cpm)	
TLD 212-1	1.00	0.85	2.05	0.50	1000	1				
TLD 212-4	1.10	1.00		4.44	4,000	9,000	10,000	6,500	3,500	
AIR 07	As Read	and the second se	0.05	0.00	1,000	10,000	11,000	7,500	3,500	
		rio riodo	0.03	As Read	As Read	300	350	250	As Read	
RS-L	0.65	0.55	1.30	0.35	0.500					
RS-M	5.50	4.65	11.0	2.75	2,500	4,500	5,000	4,000	2,000	
					21,000	30,000	35,000	35,000	17,000	

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Radio	active Deca	0-R-92-001	horing loci	<u>)</u>		+			
Dose	= Effective I	Dose Equin	nenng inci	uaea,		+			
0000	Initial	JUSE EQUIV	alem)	Cased	0	1	1		
	and the local sector and the sector of the local sector is the	Year One		Case 1	Case 1	Case 1	Case 1	Case 1	Case 1
Nuclide mR/h per				Concen	Concen	Init Exp	Init Exp	Year One	
Nucita			and the second s	pCi/m ²	pCi/m ²	mR/h	mR/h	mrem	mrem
	pCi/m ²	pCi/m ²	Fraction	at SB	at 2 mi	at SB	at 2 mi	at SB	at 2 mi
Gross	Activity			4 59E+00	1.02E+09				
Partic /	Activity		9 70E-02	4.45E+08					
	Activity			4.14E+09					
*Gross	dep at SB t	aken as 4	Staross der	at 2 mi har	9.21C+U0	an meda ar	lc at 2.25 hrs.		
**Gross	dep at 2 m	i based on	puff calc at	7 hrs with r	alesse ass	te mode ca	lic at 2.25 hrs.		
		Decos on	part date at	7 1115 WILLT	cicase assi	umed to sto	p at 6 nrs.		
Ahunda	nces below	harad on a							
Particu	lates Deluw	based on c	omposition	at 7 hrs (pu	iff run)				
Zr-95	1.28E-08	3.30E-05		0.000.00					
Nb-95		0.00E+00	0	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+0
Ru-103		7.10E-06	0		0.00E+00			0.00E+00	0.00E+0
Ru-106		1.20E-05	0	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+0
Te-132		or work of the local division of the local division of the local division of the local division of the	0		0.00E+00		0.00E+00	0.00E+00	0.00E+0
-132	4.00E-09		0		0.00E+00		0.00E+00	0.00E+00	0.00E+0
-152	3.70E-08	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+0
-131	6.60E-09	1.30E-06	0.267	1.19E+08	2 64E+07	7.85E-01	4 745 04	4.555.00	
-133	1.00E-08	and the second	0.412	1.83E+08	and the second se	the second day is not a second day of the second		1.55E+02	3.43E+0
-135	2.40E-08		0.195	8.68E+07		1.83E+00		3.85E+01	8.56E+00
Cs-134	of the local distance of the local distance was and if the local distance was and	1.00E-04	0.049		4.85E+06	2.08E+00		1.39E+01	3.09E+00
		1.000.04	0.040	2.102.407	4.032+00	5.67E-01	1.26E-01	2.18E+03	4.85E+02
Cs-137	1.00E-08	4.50E-05	0.03	1.34E+07	2.97E+06	1.34E-01	2 97E-02	6.01E+02	1.34E+02
3a-140	3.20E-09	1.10E-05	0		0.00E+00		0.00E+00		President Andrew Statement of Statement
.a-140	3.50E-08	0.00E+00	0		0.00E+00			the lock of a property lie of a survey of the second	0.00 -00 0.00 E+00
odines									
131	6.60E-09	1.30E-06	0.296	1.23E+09	2 725+00	8 105 .00	4.005	1.000	
133	and the second state in succession in the second state of the	2.10E-07	0.456	1.89E+09					3.5-1E+02
135	the state of the second s	1.60E-07	0.216	8.95E+08			4.20E+00	3.97E+02	8.82E+01
			0.210	0.932700	1.995+00	2.156+01	4.77E+00	1.43E+02	3.18E+01
otal			***			5.39E+01	1.20E+01	5.12E+03	1.14E+03
ote: Ca	ise 1 is bas	ed on 7 hr o	aross depo	sition 7 hr c	TOUD COMP		lative release		







RESPONSE CELL MESSAGES

TELEDYNE BROWN

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MOCK NRC INJECT MESSAGES

<<< *** THIS IS AN EXERCISE *** >>>

CONTROL MESSAGE RC-1

TIME : 0755 (T+025)

ISSUED TO : NUCLEAR DUTY OFFICER

PREREQUISITE : EXERCISE HAS BEEN INITIATED ; PAGE AT 0752 (T+022)

MESSAGE

ISSUE the following information VERBALLY :

"THIS IS AN EXERCISE : This is ______, Shift Engineer at Zion Station. I am calling to inform you that at 0745 (T+015) we have had a trip of the Unit 2 Generator, followed by an automatic Unit 2 reactor trip. All shutdown systems performed as designed and Unit 2 is now stable at zero (0) percent power. This event is currently not considered to be a cause for the declaration of a GSEP condition. Unit 1 was unaffected and continues to run at 100% power. We are performing routine post-trip activities and sampling, and are investgating the cause of the Unit 2 trip. We will get back to you when we have more information."

If questioned, respond with the following additional information :

- There is severe icing in and around the station due to the continuing ice storm. There
 are no current indications that icing has anything to do with the trip.
- All indications are that the availability of offsite power has not been affected.
- There is no indication of any kind of abnormal release.

CONTROL MESSAGE RC-2

TIME : 0755 - 0800 (T+025 - T+030)

ISSUED TO : BYRON CONTROL ROOM

PREREQUISITES : ZION UNIT 2 MESSAGE HAS BEEN ISSUED TO THE NDO

MESSAGE

ISSUE the following information VERBALLY :

"THIS IS AN EXERCISE : This is ______, at Bulk Power Operations. We are calling to inform you that we just lost Zion Unit 2. Because of this, the system condition is RED. We are requesting that you to bring Byron Units 1 and 2 to 100% power as soon as possible.

CONTROL MESSAGE RC-3

TIME :

0900 - 0915 (T+090 - T+105)

ISSUED TO : NUCLEAR DUTY OFFICER

PREREQUISITES :

ISSUE APPROXIMATELY ONE (1) HOUR AFTER THE INIITAL CALL ON THE LOSS OF ZION UNIT 2

MESSAGE

ISSUE the following information VERBALLY :

"THIS IS AN EXERCISE : This is ______, Shift Engineer at Zion Station. I am calling to update you on our investigation into the unexpected trip of Zion 2. Unit 1 remains at 100% power and is apparently not affected by the problems on Unit 2. Unit 2 tripped at 0745 (T+015) and all systems performed as expected to shut the unit down. Our preliminary determination is that the cause of the trip was that an Electrical Maintenance mechanic bumped the Generator Lockout Relay (86 relay) while stringing cable in the Aux. Electric Room. Results from the post-trip sampling was normal. We are continuing to examine the cause of the trip. A decision will be made this afternoon about when Unit 2 will be restarted."

CONTROL MESSAGE RC-4

TIME :

0900 - TERMINATION (T+090 - T+390)

ISSUED TO : N/A

PREREQUISITE : CALL IS MADE BY PARTICIPANTS TO TELEDYNE-BROWN (ENVIRONMENTAL CONTRACTORS)

MESSAGE

When a call is made by participants to Teledyne-Brown, ask the following questions :

- 1. We can be at Byron by 2 pm this afternoon. When do you want our sampling technician to come and change-out TLDs and Air Samplers ? Where do you want our sampling technician to report ? Are you going to supply dosimetry for him ?
- 2. Should we expect environmental samples to be coming into our lab ? How many samples should we plan for ? When will the samples arrive ? Will the samples arrive contaminated ?
- 3. Do you want our courier(s) to pick up the samples ? Where and when should we meet your teams to pick them up ?
- 4. Are there any special kinds of analyses that you want performed on these samples ? Do you have any specific detection limits that you want used for the samples ? Where will you want the sample results sent ?
- 5. Who is authorizing our costs to receive and analyses these samples ?

CONTROL MESSAGE RC-5

TIME :

1050 (T+200)

ISSUED TO : TSC SECURITY DIRECTOR

PREREQUISITES : PERMISSION OF THE LOAD FACILITY CONTROLLER

MESSAGE

ISSUE the following information VERBALLY :

"THIS IS AN EXERCISE : This is Ogle County Sheriff's Deputy ______. There has been a serious multi-vehicle accident on the Route 72 bridge going into the town of Byron. Three (3) cars are reported to have slid on the ice, and they have blocked the bridge. Ambulances and Byron Police are on the scene. We will let you know when the bridge is re-

CONTROL MESSAGE RC-6

TIME : 1210 (T+280)

ISSUED TO : TSC SECURITY DIRECTOR or EOF GOVERNMENTAL COMMU-NICATOR

FREREQUISITIES : PERMISSION OF THE LEAD FACILITY CONTROLLER

MESSAGE

ISSUE type following information VERBALLY :

"THIS IS AN EXERCISE : This is Ogle County Sheriff's Deputy _____. I am calling to inform you that the Route 72 bridge over the Rock River into Byron has been re-

MOCK NRC SITE TEAM GENERAL GUIDANCE

- 1. Dress in normal office attire with no reference to CECo logos.
- 2. Ensure that all communications indicate "This is an Exercise".
- Utilize the attached lists of concerns and questions for ideas for inquiries.
- 4. Ask questions to gain a full overview of the event. Other questions are allowed.
- Prior to dispatch to the site, call the Response Cell for a briefing based on supplied information to the NRC. This should be done 30 minutes before reporting to the location.
- Make note of the following:
 - a. On entrance to ERFs
 - 1. Escort, Non-escort by CECo, Security
 - 2. Safety equipment, Radiological equipment provided
 - 3. Arrival time vs. entrance time at ERF
 - b. Tour of ERF and Access to:
 - 1. NRC Office at ERF
 - Type of personnel providing guided tour
 - 3. Introduction to ERF Management (yes/no)
 - 4. Clerical supplies provided
 - 5. Phone systems demonstrated
 - 6. Computer information self service
- Request a briefing upon arrival at the site and the EOF.
- 8. Inform personnel what data you want in hard copy.
- If assembly and evacuation are deemed appropriate, ascertain the number of people on-site, the selected relocation facility.
- 10. Determine if the maintenance repairs in progress have been prioritized to mitigate the consequences of the accident.
- 11. Assess the timeliness of the emergency classifications and Protective Action Recommendations in order to report back to the evaluation team after the Exercise has terminated.

- 12. Request involvement in decision making. Ask what the utility recommends? NRC should be consulted in decisions prior to prioritizing work changing PARs and reclassification.
- 13. Attend all meetings of interest to your task.
- 14. Provide comments and information on NRC interface objectives to Lead Off-Site Controller or Lead TSC Controller at the end of the Exercise.

MOCK NRC QUESTIONS AND CONCERNS

- 1. What were plant conditions prior to the Alert declaration?
- Request Event Notification Worksheet if a continuous line has not been maintained.
- Ask for verification of the magnitude of the discharge.
- 4. What are the radiation levels in the plant?
- 5. How many people were on-site and number of Rad Workers assembled?
- 6. Have any protective measures for the off-site public been recommended?
- 7. Are there any radiological concerns regarding workers in the area of the discharge release?
- 8. What is being done as precautionary measures?
- 9. What are background rad levels?
- 10. What are the Environs Teams readings?
- 11. Have you had any evidence of extensive fuel damage?
- 12. What is the Status of the Containment Drywell integrity? Electrical Equipment? Core Cooling?
- 13. Do you need any technical assistance from the NRC or any governmental agency?

MOCK NRC QUESTIONS AND CONCERNS

- 1. Ask for documentation of the plant condition prior to the Site Emergency?
- 2. Ask for copies of the NARS and ENS forms. Ask questions for clarification.
- Ask for what facilities the States have operational.
- Ask if any other Government Agency may be needed for assistance.
- 5. Ask how the PARs were determined.
- 6. Ask for the status of Unit 2.
- Ask for documentation of any phone calls to Bethesda.
- 8. What type of contamination have you found on your workers?
- 9. How do we arrange for lunches for our Site Team? Where can we order and set up an account?
- 10. How bad is the locine problem in the plant?
- 11. Is there potential for a major lodine release?

MOCK NRC OPERATIONS CONCERNS

Reactor Status

- a. Press, temperature, level and flow
- b. Ability to shutdown unit

ECCS Status

- a. Availability, Operability, and inventory
- b. List types of system
- c. Automatic vs Manual Actuations

CECo to State Interface Notifications

- a. (Who) CECo personnel, (where) ERF, when
- b. Concurrence
- c. Changes in Protective Action Recommendation
- d. Determine when decisions were made (time) and when notifications were made

Repair Work Priority

- a. Status, List and relationship to events
- b. Dose assessments, Safety, time, materials

Core Damage

- a. Status of assessment and type of assessment
- b. Yes/No and percent
- c. Number of assemblies, rods
- d. Type of damage thermal, mechanical

Offsite Power

- a. Status of switch yard, system grid
- b. Ability to obtain portable diesel generator

Onsite Power

- a. Status of Unit diesel(s)
- b. Status of ability to Cross tie
- c. Status of diesel surveillance

Balance of Plant Equipment Status

- a. OOS/BIS (date and time)
- b. Available Systems

ERDs Operation

- a. Request historical printout of transmitted data
- b. Verify Unit 1/2 Operation

Recovery Determinations

- a. CECo procedure used
- b. Consultations with (STATE/FED/TSC/EOF)
- c. Plant/Environs/Personnel Protected

Assess status of vital equipment

Assess the status of vital shutdown equipment

MOCK NRC RADIOLOGICAL CONCERNS

Release (Gaseous)

- a. Monitored Pathway or Unmonitored pathway
- b. Noble Gas &/or lodine
- c. Concentrations, Release Rates, Dose Rates
- d. Effect on Public
- e. Effect on Farm Animals
- f. Effect on crops
- g. Durations

Release (Liquids)

- a. Monitored Pathway or Unmonitored pathway
- b. Release to waterway, lake, ground
- c. Isotopes
- d. Concentrations, Release Rates
- e. Durations

Protective Measures (PARs)

- a. Basis
- b. PARs
- c. Sector and distances
- d. Reported by, at time, and date
- e. Public Notified via EBS
- f. Prompt Notification System activated

Safety of Station Personnel performing:

- a. Repair work
- b. Essential Personnel
- c. Nonessential Personnel in assembly areas
- d. Radiological concerns of all personnel
- e. Hazardous materials effect on station personnel
- f. Issue KI to Station Personnel, field teams

Site Assembly

- a. Initiated
- b. Number of essential, nonessential
- c. Relocation site/travel time, security
- d. Radiological concerns

Water Inventory

- a. Reactor water storage tank inventory
- b. Condensate storage
- c. Ability to produce clean water
- d. Ability to ship in clean water

MOCK NRC RADIOLOGICAL CONCERNS Continued

Contamination Control

- a. In-Plant
- b. Off-Site

Containment Control (Primary/Secondary)

- a. Status of Last ILRT
- b. Status of Containment (press, temp Hydrogen)

Site Conditions

- a. Inside Security Fence
- b. Security Fence to Property Line

Site Surveys

- a. Radiclogical, Haze Mat, Security
- b. Locations and conditions
- c. Off-Site Assistance

Radwaste Systems

- a. Status, Capability, availability
- b. Off-Site Assistance (CECo, Vendor, Federal, State)

Meteorological conditions

- a. WS, WD, DT
- b. Effect Sectors
- c. Effect on PARs

Field Teams Activities

- a. Number, location, controlled by (TSC/EOF)
- b. State support with field teams
- c. Type of monitoring, sampling
- d. Plume determination, sectors, elevated vs ground
- e. Teams from other stations, utilities

JOINT PUBLIC INFORMATION CENTER MESSAGES

JPIC CONTROLLER GUIDANCE

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PUBLIC INFORMATION INJECT MESSAGES

RUMOR CONTROL INJECT MESSAGES

GROUND RULES FOR MOCK MEDIA PARTICIPANTS

The role of Mock Media is important if we are to realistically challenge the individuals who are acting as official spokespeople for the Company. Without the experience you are helping them to gain, they would be unprepared to deal with the real media in the eventuality of an actual event. Your demeanor should reflect the concern you would naturally feel if a nuclear emergency were unfolding and you should be persistent enough in your questioning to get the answers you require. This is NOT, however, a feeding frenzy. As in any professional situation, rude and obnoxious behavior is unnecessary and uncalled for, so maintain a professional demeanor throughout the exercise.

- Professional media are taught to ask questions of who, what, why, where, when and how.
 - a. Who did it happen to?
 - b. What happened?
 - c. Why did it happen?
 - d. Where did it happen?
 - e. When did it happen?
 - f. How did it happen?
- Remember, the media delivers its product to people, so people are the main focus, technical areas are secondary.
- Approach the press conference as a learning experience. Your questions should reflect your desire to gain information, not confuse or trip up the spokesperson.
- 4. Be persistent. Keep asking questions that are not answered to your satisfaction.
- 5. Listen to the questions of the other media representatives, and the answers they receive, to eliminate redundancy.
- Consider the image the spokesperson projects: frightened, secure, confident, confused, forthright, devious, concerned, aloof. The image conveyed can be as important as the message conveyed.
- 7. Keep in mind that your end result should be an informative, complete and interesting news story. If you do not feel as though you can generate that story, you are not getting enough useful information. Ask better questions or push for better answers. When the day is done, you should be confident in your understanding of the days events.

<<<****"THIS IS AN EXERCISE"***>>>

CONTROL MESSAGE JPIC - 2

TIME: 09:00 A.M.

ISSUE TO: COMMUNICATION SERVICES, GENERAL OFFICE

PREREQUISITE: PERMISSION OF THE LEAD JPIC CONTROLLER

MESSAGE

"THIS IS AN EXERCISE": This is Bill Berry of WDUM talk radio and you are on the air live. So... what's going on with your Byron plant? We understand you've had some problems out there and had to notify the NRC about them.

(Evaluate the explanation for clarity and accuracy and comfort. Continue questioning.)

The big story this morning is the weather. Has the weather caused the problems you're having or been instrumental in any possible ramifications of that problem?

Is it possible that this condition will become more serious?

Will you call my producer with any updates you may have?

CONTROL MESSAGE JPIC - 3

TIME: 09:20 A.M.

ISSUE TO: COMMUNICATION SERVICES, GENERAL OFFICE

PREREQUISITE: PERMISSION OF THE LEAD JPIC CONTROLLER

MESSAGE

"THIS IS AN EXERCISE": This is John Scopes of the Morning Post Newspaper. One of our scanners picked up a report of an accident involving a security patrol at your Byron plant.

First, was anyone injured or killed in the accident?

Can you tell me the extent of damage done to the building?

Was the building a critical part of the plant?

What caused the accident? Whose fault was it?

Will you be issuing a press release?

<<<****"THIS IS AN EXERCISE"***>>>

CONTROL MESSAGE JPIC - 4

TIME: 09:45 A.M.

ISSUE TO: COMMUNICATION SERVICES, GENERAL OFFICE

PREREQUISITE: PERMISSION OF THE LEAD JPIC CONTROLLER

MESSAGE

"THIS IS AN EXERCISE": This is John Scopes again. I'm calling back to see if there is any new information you can give me concerning your activities at the plant. We have been picking up a lot of activity coming from your plant on our scanners and we're a little concerned that your not telling us everything.

Can you assure us that there is no danger to the public?

Are you confident of your ability to keep the plant running safely?

Is the NRC actively involved in directing your activities at the plant?

Will you keep me posted of any new events?

TIME: After Site Declaration

ISSUE TO: COMMUNICATION SERVICES, GENERAL OFFICE

PREREQUISITE: PERMISSION OF THE LEAD JPIC CONTROLLER

MESSAGE

"THIS IS AN EXERCISE": John Scopes again. I have just learned that the condition at Byron Station is worsening. My editor wants a story and he wants pictures. I'm getting ready to leave for Byron with a photographer and I would like a contact there to show me the layout and an answer some questions. It should be someone knowledgeable in operations and with enough clout to answer the tough questions.

(The reply should try to prevent you from going to the plant. Push for an interview of some kind, threaten to go to the site for pictures, try to get Communications Services to send you to the JPIC.)

CONTROL MESSAGE JPIC - 6

TIME: 10:45 or after JPIC Activation

ISSUE TO: MEDIA MONITORING/RUMOR CONTROL AND ALL MOCK MEDIA

PREREQUISITE: PERMISSION OF THE LEAD JPIC CONTROLLER

MESSAGE

"THIS IS AN EXERCISE": WMAQ television Special Report: ComEd has declared an emergency at its nuclear plant near Byron, Illinois. A series of mishaps at the plant have combined to place the once highly regarded nuclear station in the worst state of emergency in the company's 35 years of nuclear power generation.

In an alarming sequence of calamity, the plant has continued its downward spiral throughout the morning calling into question the utility's ability to control the reactor and guarantee the safety of the population in the surrounding countryside.

A ComEd spokesperson has assured us there is no danger to the public but admitted under questioning that the situation could worsen.

The utility is beefing up its staff to address the emergency and is working with state and federal officials to regain control of the reactor and protect the general public.

Stay tuned to WMAQ for more information as soon as it becomes available.

<<<***"THIS IS AN EXERCISE"***>>>

CONTROL MESSAGE JPIC - 7

TIME: 11:15 A.M.

ISSUE TO: MEDIA MONITORING/RUMOR CONTROL AND ALL MOCK MEDIA

PREREQUISITE: PERMISSION OF THE LEAD JPIC CONTROLLER

MESSAGE

"THIS IS AN EXERCISE": WGN Special Report:

A WGN minicam and crew has been denied access to the troubled ComEd nuclear plant at Byron. In fact, Ogle County Sheriff's police have blockaded all roads leading to the plant and are refusing to let anyone pass. We are going live now to Jane Truelies in Ogle County.

Jane: Thank you Jim. As you can see behind us, the road has been blocked by the sheriffs department and no one is being allowed in except ComEd personnel. Despite assurances from the utility that there is no danger to the public, it would appear that extraordinary measures are being taken to isolate the plant.

When we asked why we were not allowed to get closer, we were told, quote: "Because it's not safe..." Back to you Jim.

Jim: Thank you Jane for that report. Stay tuned to WGN for further updates as they become available.

CONTROL MESSAGE JPIC - 8

TIME: 11:45 A.M.

ISSUE TO: MEDIA MONITORING/RUMOR CONTROL AND ALL MOCK MEDIA

PREREQUISITE: PERMISSION OF THE LEAD JPIC CONTROLLER

MESSAGE

"THIS IS AN EXERCISE": This is WDUM talk radio. Go ahead, you,re on the air.

"Yeah, Bill? How ya doin? All I got to say about Byron is, I used to work for Edison, you know? And all I got to say is: ask them how many people they got rid of over the last couple years. They been firin, retirin, all kinda (beep). You can't do that without losin somethin. The old people are retirin and the young ones just quitin. How you goin to run a company with half the people it used to take? Answer me that. That's all I wanted to say.

"Well, thank you. I'd say that's a pretty good question. Next caller, please.

CONTROL MESSAGE JPIC - 9

TIME: After the General is declared.

ISSUE TO: MEDIA MONITORING/RUMOR CONTROL AND ALL MOCK

PREREQUISITE: PERMISSION OF THE LEAD JPIC CONTROLLER

MESSAGE

"THIS IS AN EXERCISE": WTTW News flash: In spite of assurances to the contrary, conditions at the ComEd nuclear power plant in Byron have just gotten worse as utility officials have just declared that a condition of general emergency exists. We at WTTW have learned that radiation is leaking from the plant at that it is virtually certain that some segment of the surrounding population will need to be evacuated. We are keeping programming live right while we await further updates. In the meantime, lets recap events as they have occurred since early this morning.

...Recaps.

<<<***"THIS IS AN EXERCISE"***>>>