1983 FARLEY NUCLEAR PLANT EMERGENCY EXERCISE

February 9, 1983

I. Participating Organizations

State of Alabama anc Houston County, Alabama
State of Georgia and Early County, Georgia
State of Florida (Communications level participation only)
Alabama Power Company

II. Purpose

A. To meet the requirements of 10CFR50, Appendix E, 44CFR350.9 and NUREG-0654/FEMA-REP-1, Rev. 1.

B. To conduct a full-scale exercise that will include the mobilization of Alabama Power Company, state and local personnel and resources adequate to verify the capability of participating organizations to respond to an accident scenario requiring response.

III. Objectives

A. On-site Objectives (Alabama Power Company)

1. Demonstrate that control room staff can assess the event, classify the event, take corrective measures to control the event and activate emergency response procedures.

2. Demonstrate that plant staff can activate and staff the Technical Support Center (TSC) and perform accident response activities including:

a. Dose Assessment

b. Off-site notification and protective action recommendations.

c. Reclassification of emergency status

d. Personnel Accountability for all personnel on-site

e. Radiation Monitoring Team (RMT) Dispatch and Control

f. Site access control and admittance of essential personnel

g. De-escalation of emergency class

3. Demonstrate the capability to turnover Emergency Operations Facility (EOF) functions to the EOF staff when EOF is activated and staffed.

4. Demonstrate the capability to augment EOF staff with non-essential plant personnel.

B. Off-Site Objectives (Alabama Power Company)

1. Demonstrate that corporate staff can be activated in a timely fashion and dispatched to FNP.

2. Demonstrate that Flintridge Emergency Operations Center (EOC) staff can provide initial support for:

a. EOF activation

b. Logistics

c. Support Organization Nofification

d. Briefing of company management

e. Monitoring news media activities

3. Demonstrate that EOF staff can:

a. Assume Dose Assessment function & RMT direction and communication function from TSC staff

b. Assume Logistics, Manpower and Engineering function from Flintridge EOC

c. Prepare and coordinate news releases and activate emergency news center

d. Shift to Recovery Phase Organization

C. Off-site Plume Exposure Pathway EPZ Objectives
(States of Alabama and Georgia* and Counties of Houston and Early)

1. Demonstrate that response organizations can alert, notify and mobilize emergency response personnel.

2. Demonstrate that the emergency operations centers can be staffed in a timely fashion.

3. Demonstrate that the states can activate emergency worker assembly points, dispatch radiation monitoring teams in a timely manner, provide assessment of a simulated airborne release and communicate their assessment to the EOC.

*State of Georgia plans to full-scale exercise with Plant Hatch and therefore will limit activation of the GA state EOC to that level required for realistic interplay with the other fully activated organizations.

4. Demonstrate that the states' Radiation Control staffs can assess the accident and make appropriate recommendations to the states' decision makers.

5. Demonstrate that decisions can be made with regard to protective measures for the plume exposure pathway EPZ.

6. Demonstrate that the counties can dispatch personnel to all appropriate access points that the simulated evacuation would call for and take other measures involved in the simulated evacuation.

7. Demonstrate that adequate communications can be maintained between county EOC and field units.

8. Demonstrate the Houston County mass care facility can be activated and staffed in a timely fashion to support a simulated evacuation.

d. Off-site Ingestion Pathway EPZ objectives**(States of Alabama, Georgia, and Florida)

1. Demonstrate that decisions can be made with regard to protective measures for the ingestion pathway EPZ.

2. Demonstrate that collection and analysis of ingestion pathway EPZ dairy products can be initiated.**

e. Joint objectives (Alabama Power Company, States of Alabama, Georgia and Florida, Counties of Houston and Early)

1. Demonstrate that the parties can coordinate all releases of information to the media.

2. Demonstrate that the parties can coordinate the protective measures to the public (recommendations for protective action, activation of the Prompt Notification System).

3. Demonstrate that the parties can carry out free play in decision making with regard to protective measures for the plume and ingestion pathway EPZs.

IV. General Exercise Scenario

The simulated accident condition will begin as an Alert Emergency and progress over a 2 to 3 hour period to a General Emergency.

Simulated radioactivity releases will be selected to require simulated evacuation of portions of the 10-mile Emergency Planning Zone and ingestion pathway EPZ sampling.

**Ingestion pathway protective measure actions will be simulated to a communications level only.

See Attachment 1 for scenario details.

Wind direction will be from the north-northeast toward the south-southwest. One year old meteorological data will be utilized to determine frequency, magnitude and timing of changes in meteorological parameters.

See Attachment 2 for meteorological data.

V. Drill Limits

The drill will begin at approximately 8:00 a.m. and last a maximum of 8 hours.

The State of Alabama, Houston County, Alabama and Early County, Georgia will participate at a full scale level including activation and staffing of EOCs and will perform functions identified in their emergency plans. The State of Alabama will simulate activation of its mass care facilities in Houston County. The State of Georgia will participate as necessary to simulate interfacing and decision-making with the other organizations and will dispatch at least one Radiation Monitoring Team to Early County and a representative to the Houston County CEOC. The states of Alabama and Georgia will simulate ingestion pathway sampling at a communications level but will not obtain or simulate analysis of samples. The State of Florida will exercise at a communications level only and does not plan to dispatch a representative to the Houston County CEOC.

Following proper coordination, the prompt notification system will be activated by Alabama and Georgia.

Alabama Power Company will activate its Technical Support Center, Flintridge (corporate) Emergency Operations Center, its on-site Emergency Operations Facility and its Emergency News Center.

ATTACHMENT 1

1983 RADIATION EMERGENCY EXERCISE SCENARIO

1.0 INITIAL PLANT STATUS

1.1 Unit #1 is operating at 100% equilibrium conditions, middle of core life, cycle #4, with 450 ppm boron concentration. The RCS has moderate activity due to some clad failure.

1.2 LCOs

1.2.1 Only one charging pump is operable (1-A). 48 hours remain in action statement time limit.

1.2.1.1 1-B has failed motor.

1.2.1.2 1-C has failed gear box.

1.2.2 RE-600 failed detector. LCO in effect for 12 days.

2.0 EQUIPMENT AND SYSTEM STATUS

2.1 A, B, & E steam dump valves are isolated due to, (1) excessive seat leakage on A & B, and (2) a positioner malfunction on E.

2.2 All ESF components are OPERABLE per last surveillance testing. (Exceptions are 1B & 2C charging pumps and RE-600.)

2.3 Waste gas system is aligned and operating in "Automatic" in the "low pressure" mode with no inoperable equipment.

2.4 Liquid waste systems are at normal inventory levels and all processing equipment is available.

2.5 Auxiliary building main exhaust fan 1-A is out of service due to a failed fan bearing.

3.0 MAINTENANCE ITEMS

3.1 Removing needed parts from 1-B charging pump to repair 1-C charging pump's gear box. Approximate repair time-12 hours.

3.2 Auxiliary building main exhaust fan 1-A replacement parts are on order.

4.0 SCENARIO TIME	EVENT DESCRIPTION / PLANT STATUS	EXPECTED ACTIONS
0800	1-B start-up transformer protective relay fails and causes the following concurrent events: *Reactor trip - SSPS RCP breaker power supply de-energized. *Turbine trip - Power > P-9 and reactor tripped. *LOSP "B" train - start-up transformer isolated from switchyard. NOTE: At the time of start-up transformer loss, the following major components will be de-energized and subsequently restarted by B1G and B1J sequencers: 1-B AFW pump 1-A CCW pump 1-E 600V load center 1-D and 1-E service water pumps 4 & 5 river water pumps Main generator trips and "fast dead bus transformer" takes place, causing the loss of 1-B and 1-C RCPs due to start-up transformer 1-B being de-energized.	Control Room Personnel - Diagnose event and begin "IMMEDIATE ACTIONS" of EOP-7.0, "Loss of Offsite Power"
0801	D/G 1-B and 2-C are running, and sequencing is complete with no failures.	Control Room Personnel - Complete IMMEDIATE ACTIONS of EOP 7.0
0802	Due to steam dump status and sluggish controller operation, RCS pressure spikes high, causing a "weak" pressurizer code safety valve to open and become stuck open at approximately 25%. Safety injection is initiated due to low RCS pressure.	Control Room Personnel - Diagnose event and begin implementation of EOP-0, "SAFETY INJECTION"

TIME	EVENT DESCRIPTION / PLANT STATUS	EXPECTED ACTIONS
0804	RCS pressure at 1400 psi and rate of change is decreasing. Safety injection and containment isolation function satisfactorily with the exception of containment mini-purge valves which fail to shut completely. One mini-purge valve (inboard valve) does close far enough to indicate closed on the monitor light box and other indications. (Any attempt to shut these valves will be unsuccessful and this effluent path will remain open.)	Control Room Personnel - Attempt to close outboard mini-purge valve.
0805	Pressurizer relief tank rupture disk blows and the following radiation monitors begin to upscale: (1) R-2 containment area 155' (2) R-7 seal table area (3) R-10 penetration room filtration discharge (4) R-11 containment atmosphere particulate (5) R-12 containment atmosphere gaseous *(6) R-27 A&B containment Hi range (7) R-24 A&B containment purge exhaust (8) R-14 vent stack in line (9) R-21 vent stack off line particulate 10) R-22 vent stack off line gaseous *Hi range detector will not see an immediate increase.	Control Room Personnel - Diagnose event and implement EOP-1.0, "LOSS OF REACTOR COOLANT". Sound Plant Emergency Alarm. Plant Personnel - Report to assembly areas and initiate accountability procedures. TSC Management - Report to TSC and activate emergency plan (Alert Level**EIP-12).
0809	RCS at saturation conditions; temp approximately 590°F; pressurizer approximately 1450 psi. Pressure continues to decrease until break and injection flow are equal at approximately 65 gpm.	Plant Staff - Continue evacuation, accountability and TSC activation. Begin notifications.
0812	Pressurizer is filled and RCS pressure begins to stabilize at approximately 1200 psi.	Plant Staff - Continue accountability† and notifications.

**Emergency Director may decide to go straight to a GENERAL EMERGENCY level (EIP-19) if he decides 2 of 3 barriers are lost (RCS & CTMT based on R-24 A&B reading) and feels loss of third barrier (cladding) is probable.

†Following completion of accountability, personnel not participating in further exercise activities (monitoring teams, repair parties, TSC & OSC management, etc.) will be drill exempted and returned to work.

TIME	EVENT DESCRIPTION / PLANT STATUS	EXPECTED ACTIONS
0815	RCS pressure stable at 1200 psi with a break flow of 65 gpm, and slight increase in containment pressure (1.0 psig) and no change in purge valve status. These plant conditions will be maintained until 1030 hours.	Plant Staff - Continue accountability and notifications. Initiate RCS and Containment Sampling. Dispatch Radiation Monitoring Teams. Prepare to implement EIP-14, "Re-entry". Corporate Staff - Implement EIP-111 and 118 (Corporate Activation Procedures) for activation or standby status.**
0830	Containment area monitors, purge exhaust monitors and vent stack low range monitors continue to upscale.	Corporate EOC activated and EOF staff leaves for site.
0830 thru 1030	Containment area monitors, purge exhaust monitors and low range vent stack monitors continue to upscale, stabilizing at approximately 1015. Projected and actual dose rates are very low and do not justify off-site protective action.	Corporate Staff - EOC maintains contact with TSC and Recovery Manager and notifies corporate and off-site support agencies. Plant Staff - Obtain and analyze RCS and containment samples. Energize H_2 recombiners. Prepare EOF for use. Conduct re-entry with Emergency Repair Party in attempt to close the outboard mini-purge valve.*
1030	The failed code safety valves condition degrades and the leak rate increased to approximately 285 gpm. RCS decreases to 1000 psi, i.e., equilibrium break, and injection flow conditions. Containment pressure "spikes" to approximately 10 psig causing inboard mini-purge valve to open a small amount more, giving "open" indication on monitor light box for both valves.	Control Room - Continue to monitor ESF response and follow procedural guidance.

**Although not required for Alert, it is anticipated that the staff will be activated. If placed on standby, the monitor will request activation due to exercise time constraints.

*Monitor will prompt this action if necessary since inboard purge valve indication will not cause failure and repair need to be obvious.

TIME	EVENT DESCRIPTION / PLANT STATUS	EXPECTED ACTIONS
1035	The 1-A charging pump trips due to unknown reason and is re-started promptly. However, RCS pressure decreased rapidly and extensive core damage results. Radiation Monitor values take a step increase and then continue to upscale.	Plant Staff - Emergency Director declares GENERAL EMERGENCY if not previously declared. Update provided to off-site agencies. Protective Action (Evacuation) recommended. Obtain new RCS and Containment samples.
1200	Effluent release rate peaks.	None
1230 to 1300	EOF staff arrives. Plant status stable with off-site dose rates decreasing.	EOF Staff - Execute turnover per EIP-116.+ Implement EIP-114 (News Release coordination) and EIP-117 (EOF Admin. Support) and assume dose assessment responsibility. Activate News Media Center.
1400 to 1500	Stable with dose rates decreasing.	Recovery Manager holds press conference at New Media Center.
1500 to 1600	Simulate time lapse. Containment integrity restored by cycling outboard valve and release terminated. Plant is stable and in process of being cooled down and depressurized. Containment inventory still high but below value representing threat to Public.	EOF and TSC Staff - Implement EIP-115 to downgrade from General Emergency to Alert.
1600 to 1700	Simulate time lapse. Containment integrity restored, release terminated, RCS cooled down and depressurized. Shutdown cooling being maintained by ECCS in recirc. mode.	EOF Staff - Implement Recovery Organization
1630 to 1700	Terminate Exercise	

+Following completion of actions expected at 1035 and turnover to EOF, TSC role will reduce to communications level. Control room personnel and OSC personnel will be drill exempted and returned to work. Monitoring teams and TSC management continue to participate. as needed.

TIME N/A

CARD #OPS 1

INITIAL PLANT STATUS

Unit #1 is operating at 100% equilibrium conditions, middle of core life, cycle #4, with 450 ppm boron concentration. The RCS has moderate activity due to some clad failure.

LCOs

Only one charging pump is operable (1-A). 48 hours remain in action statement time limit.

1-B has failed motor.

1-C has failed gear box.

RE-60D failed detector. LCO in effect for 12 days.

TIME N/A

CARD #OPS 2

EQUIPMENT AND SYSTEM STATUS

A, B, & E steam dump valves are isolated due to, (1) excessive seat leakage on A & B, and (2) a positioner malfunction on E.

All ESF components are OPERABLE per last surveillance testing. (Exceptions are 1B & 2C charging pumps and RE-60D.)

Waste gas system is aligned and operating in "Automatic" in the "low pressure" mode with no inoperable equipment.

Liquid waste systems are at normal inventory levels and all processing equipment is available.

Auxiliary building main exhaust fan 1-A is out of service due to a failed fan bearing.

TIME N/A

CARD #OPS 3

MAINTENANCE ITEMS

Removing needed parts from 1-B charging pump to repair 1-C charging pump's gear box. Approximate repair time-12 hours.

MAINTENANCE ITEMS (cont.)

Auxiliary building main exhaust fan 1-A replacement parts are on order.

TIME 0800 CARD #OPS 4

ANNUNCIATOR G41 HAS ILLUMINATED

-ONE LOOP LOW FLOW OR-RCP BREAKER OPEN REACTOR TRIP-

TIME 0800 CARD #OPS 5

ANNUNCIATOR M02 HAS ILLUMINATED.

-START-UP TRANSFORMER 1-B SUDDEN PRESSURE-

TIME 0800 CARD #OPS 6

The Main Generator has tripped and the fast dead bus transfer has taken place.

TIME 0800 CARD #OPS 7

ANNUNCIATOR H04 AND H42 HAVE ILLUMINATED.

-PRESSURIZER SAFETY VALVE TEMPERATURE HI - AND SAFETY VALVE 8010A,B, OR C OPEN-

TIME 0802

CARD #OPS 8

ANNUNCIATOR G14 HAS ILLUMINATED.

-PRESSURIZER PRESS LO SAFETY INJ REAC TRIP-

TIME 0804

CARD #OPS 9

- PLANT STATUS-

RCS Pressure 1400 psi and rate of change decreasing.

TIME 0804

CARD #OPS 9-A

NOTE TO MONITOR: Present this card to operator at appropriate time while he is completing EOP-0, step 4.5, verfication of proper valve alignment.

Containment purge valve status

All containment purge and exhaust dampers indicate fully shut except for MINI PURGE EXHAUST DAMPER 1-CP-HV-2867B which indicates intermediate position.

TIME 0805

CARD #OPS 10

PRESSURIZER RELIEF TANK RUPTURE DISK RUPTURES.

TIME 0809

CARD #OPS 11

-PLANT STATUS-

RCS at saturation conditions 590°F, 1450 psi and break flow 65gpm.

TIME 0812

CARD #OPS 12

- PLANT STATUS-

Pressurizer solid and pressure begins to stabilize @ 1200 psi.

TIME 0815

CARD #OPS 13

- PLANT STATUS -

Pressure stable @ 1200psi, RCS solid, break flow 65gpm, containment pressure 1.0 psig.

TIME 1030

CARD #OPS 14

Safety valve condition degrades. Leak rate increases to 285 gpm. RCS pressure decreases to 1000 psig.

ANNUNCIATOR G5I ILLUMINATES

-Containment Pressure Hi-1 safety injection reac trip-

TIME 1035 CARD #OPS 15

ANNUNCIATOR E11 ILLUMINATES

-CHARGING PUMP 1A, 1B, OR 1C, OVERLOAD TRIP-

PLANT STATUS TABLE

TIME	PZR LEVEL	RCS PRESS	LP-1 WR TH/TC	LP-2 WR TH/TC	LP-3 WR TH/TC	RCP-1	RCP-2	RCP-3	CTMT PRESS	CTMT TEMP	SUMP LEVEL	SPRAY STATUS	H_2 RECOMB A/B	H_2 MONITOR A/B	SI MODE	RWST LEVEL	HI HEAD FLOW
0800	55%	2235	610 / 590		↓	ON	ON	ON	0	115	0	OFF	OFF / OFF	OFF / OFF	N/A	40'	N/A
0815	100%	1200	610 / 590		↓	OFF	OFF	OFF	1.0	220							
0830			600 / 590		↓				1.0	225							
0845			600 / 595		↓				1.1	226					↓		
0900			600 / 595		↓				1.0	226			ON / ON	ON / ON	CLI		65
0915			595 / 540		↓				1.1							39.5'	
0930			595 / 540		↓				1.1								
0945			590 / 540		↓				1.1								
1000			585 / 535		↓				1.1		25'						
1015			585 / 535		↓				1.1								
1030		1000	580 / 535		↓				1.1								28.5
1045			580 / 535		↓				1.1							39'	
1100			575 / 530		↓				1.2	230							
1115			575 / 530		↓				1.2							38'	
1130			575 / 530		↓				1.2								
1145			570 / 525		↓				1.2								
1200			570 / 525		↓				1.2		5'					37'	
1215			565 / 520		↓				1.2								
1230			565 / 520		↓				1.2								
1245			560 / 520		↓				1.2							36'	

PLANT STATUS TABLE

TIME	PZR LEVEL	RCS PRESS	LP-1 WR TH/TC	LP-2 WR TH/TC	LP-3 WR TH/TC	RCP-1	RCP-2	RCP-3	CMNT PRESS	CMNT TEMP	SUMP LEVEL	SPRAY STATUS	H_2 RECOMB A/B	H_2 MONITOR A/B	SI MODE	RWST LEVEL	HI HEAD FLOW
1300	100%	1000	560 / 520			OFF	OFF	OFF	1.2	233		OFF	ON / ON	ON / ON	CLR		285
1315		1000	555 / 515						1.2								
1330			550 / 515						1.2							35	
1345			550 / 515						1.2		.75						
1400			545 / 510						1.2								
1415		995	545 / 510						1.1	230						34	
1430			540 / 510						1.1								
1445			540 / 510						1.1								
1500			535 / 505						1.1							33	
1515		990	535 / 505						1.0								
1530			530 / 505						1.0	225							
1545			530 / 500						1.0		1.0					32	
1600			525 / 500						1.0								
1615			520 / 495						1.0								
1630			520 / 490						1.0							31	
1645			515 / 490						1.0								
1700			510 / 485						1.0		1.1						

MONITOR READINGS

TIME (24 hr clock)	R-10 cpm	R-11 cpm	R-12 cpm	R-14 cpm	R-21 cpm	R-27A&B cpm	R-24A&B cpm	R-27A&B R/hr	R-29B μCi/cc N.G.	R-29B μCi/cc I_2
0800	9.12×10^3	5.59×10^4	5.69×10^3	2.2×10^4	7.74×10^1	9.55×10^1	4.42×10^4	2×10^1	[illegible]	6.1E-11
0815	5.6×10^5			OFF SCALE HIGH	OFF SCALE HIGH	6.9×10^3	OFF SCALE HIGH	1.3×10^2	1.54E-2	2.24E-6
0830	OFF SCALE HIGH					1.5×10^4		1.6×10^2	2.16E-2	3.22E-6
0845						2.75×10^4		1.7×10^2	2.65E-2	4.05E-6
0900						3.25×10^4		1.7×10^2	3.03E-2	4.73E-6
0915						3.5×10^4		1.8×10^2	3.32E-2	5.29E-6
0930						3.9×10^4		1.8×10^2	3.49E-2	5.66E-6
0945						4.1×10^4		1.8×10^2	3.67E-2	6.05E-6
1000						4.9×10^4		1.7×10^2	3.78E-2	6.33E-6
1015						5.1×10^4		1.7×10^2	3.83E-2	6.50E-6
1030						5.25×10^4		1.6×10^2	3.88E-2	6.67E-6
1045						OFF SCALE HIGH		3.9×10^3	3.58E0	1.04E-3
1100								6.9×10^3	6.63E0	1.93E-5
1115								7.7×10^3	8.06E0	2.36E-5
1130								7.9×10^3	8.69E0	2.55E-5
1145								7.9×10^3	8.86E0	2.61E-5
1200								7.5×10^3	8.82E0	2.61E-5
1215								7.2×10^3	8.69E0	2.58E-5
1230								6.6×10^3	8.46E0	2.51E-5
1245								6.0×10^3	8.23E0	2.45E-5
1300								5.7×10^3	8.00E0	2.39E-5
1315								5.1×10^3	7.73E0	2.31E-5
1330								4.8×10^3	7.52E0	2.25E-5
1345								4.5×10^3	7.30E0	2.18E-5
1400								4.2×10^3	7.09E0	2.12E-5
1415								3.9×10^3	6.83E0	2.04E-5
1430								3.6×10^3	6.62E0	1.98E-5
1445								3.4×10^3	6.46E0	1.94E-5
1500	↓			↓	↓	↓	↓	3.2×10^3	6.25E0	1.87E-5

Low flow alarm will actuate following Safety Injection CIAS and count rates will decrease to minimum (R-11 will take approximately 30 minutes to reach minimum due to filter movement time)

If monitors are unisolated to obtain containment air sample, both monitors will go off-scale high until reisolated at which time reduction to minimum will occur

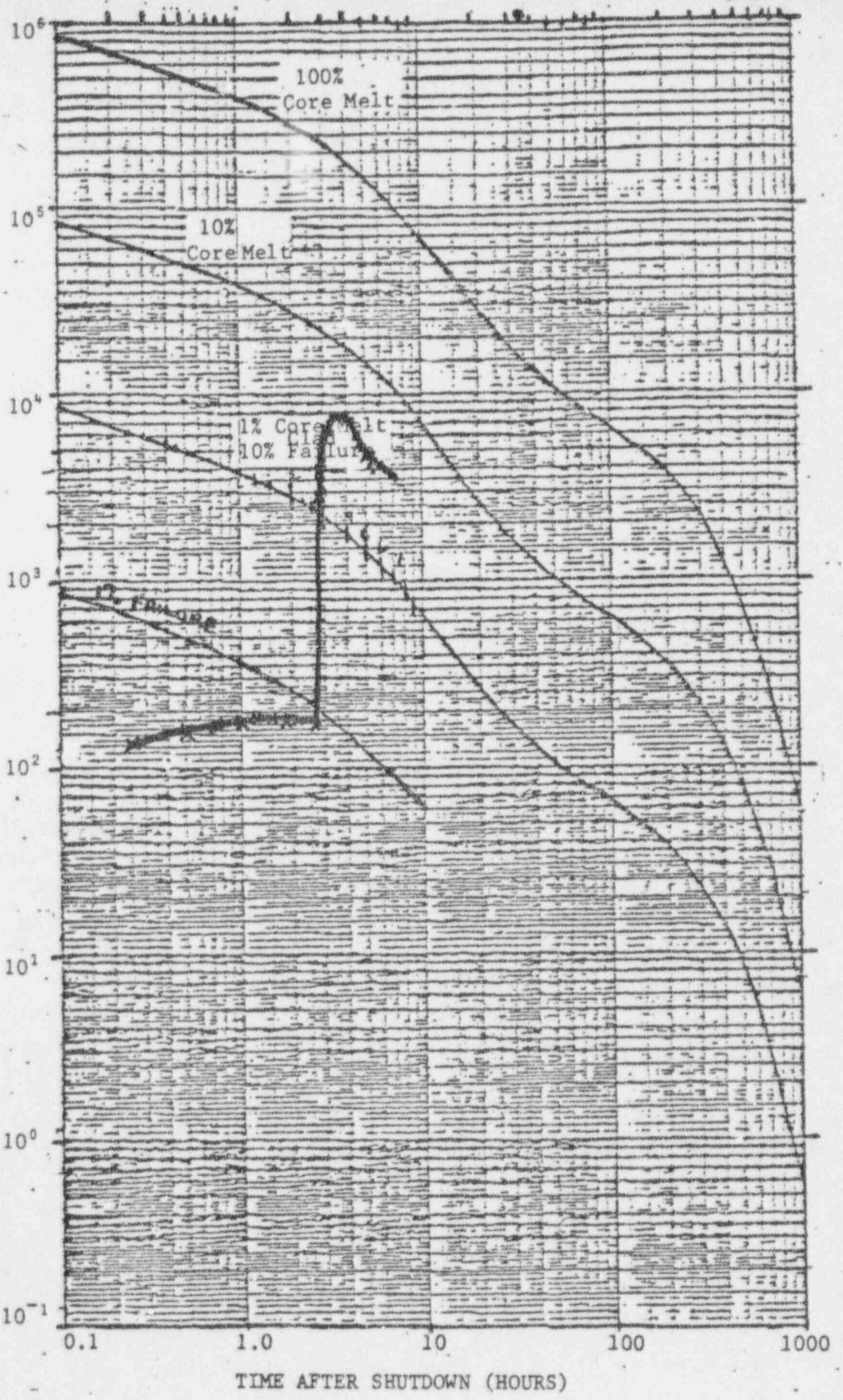


Figure 9 Gamma Dose Rate in Containment versus Time After Shutdown

Figure 9
Rev. 0

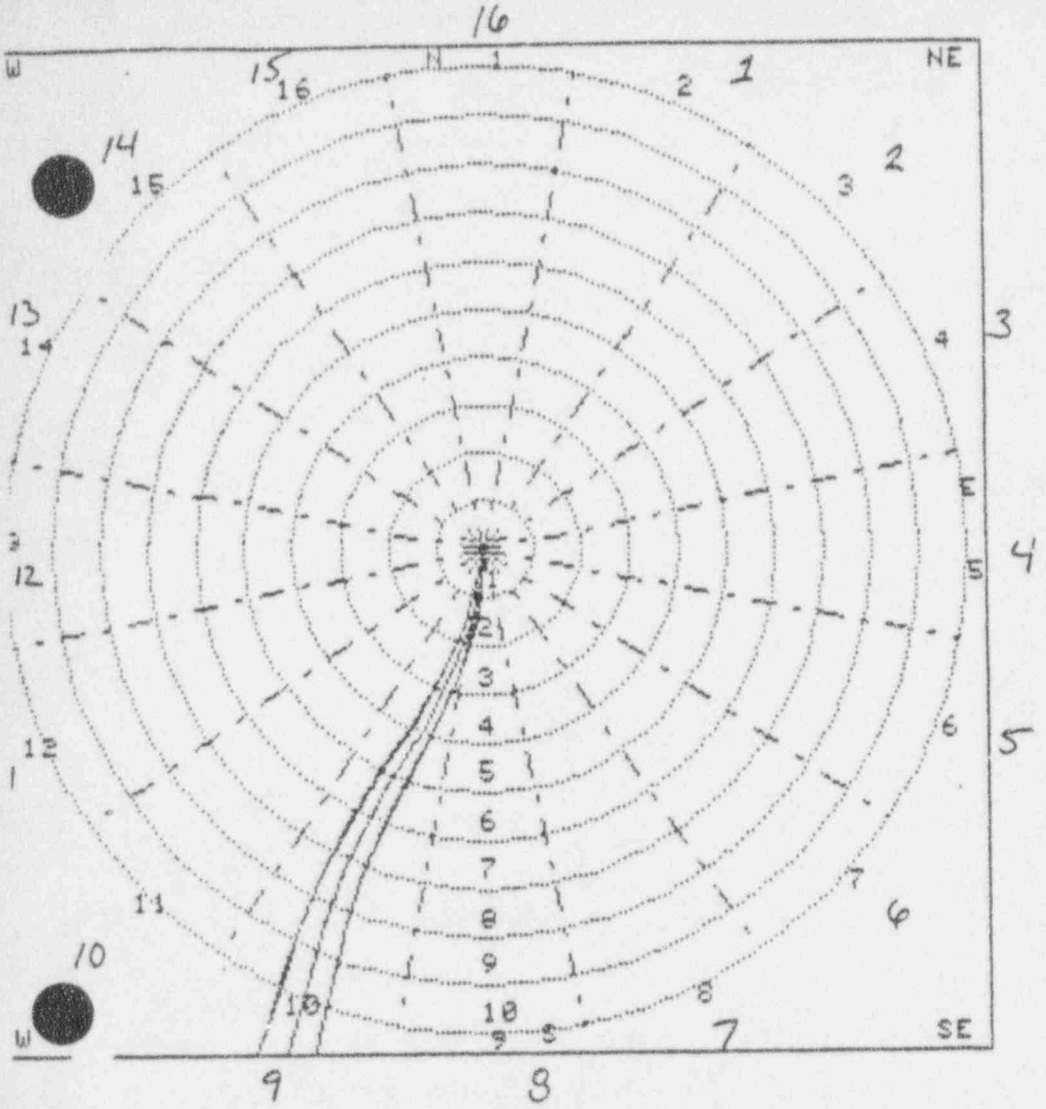
ATTACHMENT 2

EXERCISE METEOROLOGY AND PLUME TRAJECTORIES
(15 Minute Averages)

TIME	WS (M/S)	WD (DEGREES)	ΔT(°F PER 51 METERS)
815	3.10	13.00	-0.50
830	3.08	13.75	-0.50
845	3.05	14.50	-0.50
900	3.03	15.25	-0.50
915	3.00	16.00	-0.50
930	3.03	16.75	-0.50
945	3.05	17.50	-0.50
1000	3.08	18.25	-0.50
1015	3.10	19.00	-0.50
1030	2.93	22.25	-0.50
1045	2.75	25.50	-0.50
1100	2.58	28.75	-0.50
1115	2.40	32.00	-0.50
1130	2.45	27.75	-0.50
1145	2.50	23.50	-0.50
1200	2.55	19.25	-0.50
1215	2.60	15.00	-0.50
1230	2.23	15.50	-0.50
1245	1.85	16.00	-0.50
1300	1.48	16.50	-0.50
1315	1.10	17.00	-0.50
1330	1.73	21.25	-0.50
1345	1.80	25.50	-0.50
1400	2.05	29.75	-0.50
1415	2.10	34.00	-0.50
1430	2.30	28.00	-0.50
1445	2.05	22.00	-0.50
1500	1.10	16.00	-0.50
1515	1.73	10.00	-0.50
1530	2.58	11.50	-0.50
1545	2.93	13.00	-0.50
1600	2.60	14.50	-0.50
1615	3.10	16.00	-1.00
1630	3.03	16.00	-1.00
1645	3.00	16.00	-1.00
1700	2.93	16.00	-1.00

SITE BOUNDARY DOSE RATE SUMMARY

TIME	WHOLE BODY	THYROID	TIME	WHOLE BODY	THYROID
0815	0.66	0.68	1200	498	18
0830	1.91	2.22	1215	477	18
0845	2.54	2.93	1230	391	16
0900	2.86	3.51	1245	279	12
0915	3.06	3.96	1300	154	7
0930	3.15	4.31	1315	171	8
0945	3.20	4.62	1330	198	9
1000	3.19	4.85	1345	200	10
1015	3.16	5.06	1400	230	12
1030	3.01	5.07	1415	222	12
1045	102	302	1430	230	12
1100	359	11	1445	187	10
1115	453	15	1500	105	6
1130	498	17	1515	122	7
1145	507	18			



Note: Sector labeling by computer in error.
Accurate labeling of sectors shown in pen.

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/14 TIME: 08:19
LEV 6.9 MPH FROM 013 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 08:15 ON 83/01/14
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
ULIAN DAY = 14											
1G	1.7	193	9	8:15	4.85E-15	2.22E-13	2.22E-13	TH	177.	63.2	9.17E-06
1G	SB	193	9	8:15	1.50E-14	6.91E-13	6.91E-13	TH	91.5	0.0	2.84E-05

Ground

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/14 TIME: 08:19
EV: 6.9 MPH FROM 013 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 08:15 ON 83/01/14
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
ULIAN DAY = 14											
1E	1.7	193	9	8:15	5.31E-01	5.46E-01	5.46E-01	TH	176.	62.3	4.88E-06
1E	SB	193	9	8:15	6.57E-01	6.76E-01	6.76E-01	TH	90.8	0.0	6.04E-06

Elevated

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/14 TIME: 08:20
LEV: 6.9 MPH FROM 013 DEG STABILITY CLASS D
CURRENT PLUME INFORMATION AS OF 08:15 ON 83/01/14
ABBREVIATED PROJECTION

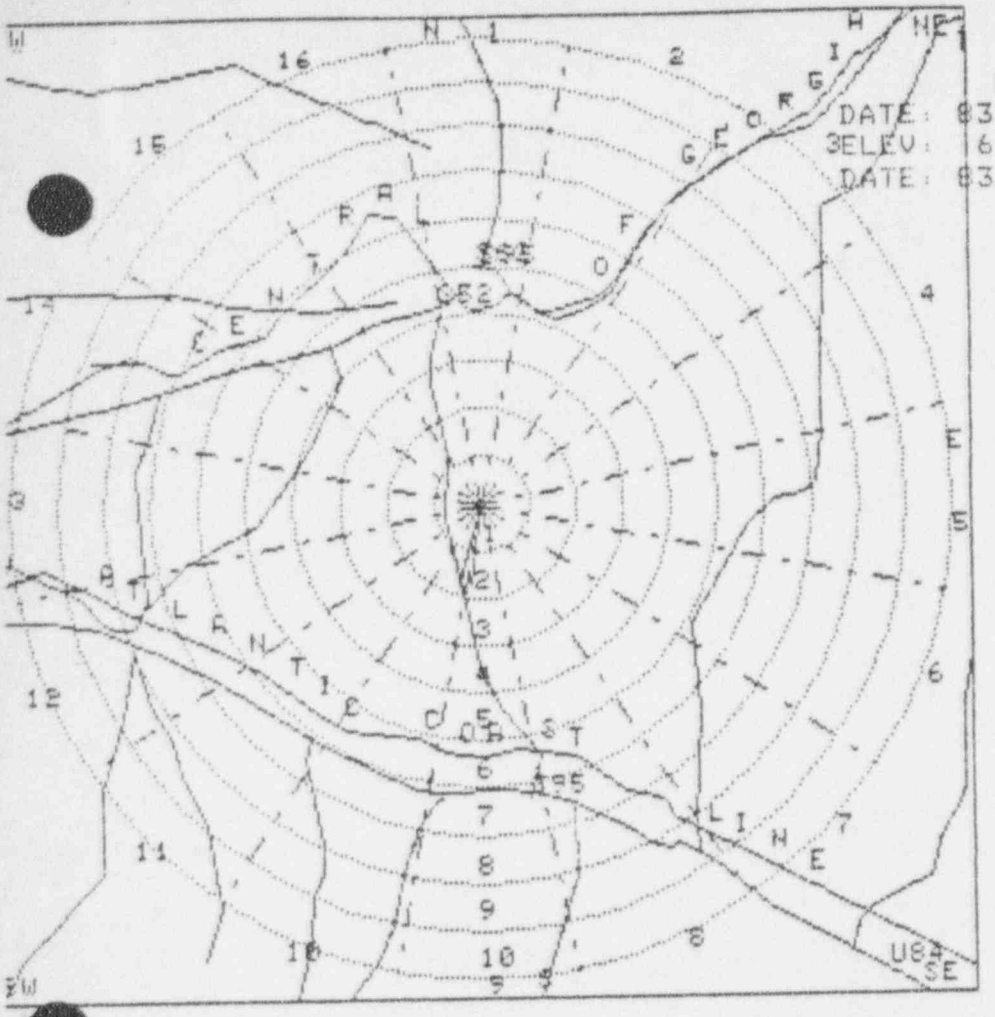
ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 14											
1G	1.7	193	9	8:15	4.85E-15	2.22E-13	2.22E-13	TH	177.	63.2	9.17E-06
1G	SB	193	9	8:15	1.50E-14	6.91E-13	6.91E-13	TH	91.5	0.0	2.84E-05
1G	2.0	193	9	8:17	3.94E-15	1.81E-13	1.81E-13	TH	200.	0.0	7.45E-06
1G	3.0	193	9	8:26	2.19E-15	1.00E-13	1.00E-13	TH	283.	0.0	4.14E-06
1G	4.0	193	9	8:35	1.44E-15	6.61E-14	6.61E-14	TH	363.	0.0	2.72E-06
1G	5.0	193	9	8:43	1.04E-15	4.78E-14	4.78E-14	TH	442.	0.0	1.96E-06
1G	6.0	193	9	8:52	7.98E-16	3.66E-14	3.66E-14	TH	519.	0.0	1.51E-06
1G	7.0	193	9	9: 1	6.38E-16	2.92E-14	2.92E-14	TH	595.	0.0	1.20E-06
1G	8.0	193	9	9: 9	5.25E-16	2.41E-14	2.41E-14	TH	670.	0.0	9.92E-07
1G	9.0	193	9	9:18	4.42E-16	2.03E-14	2.03E-14	TH	744.	0.0	8.35E-07
1G	10.0	193	9	9:27	3.79E-16	1.74E-14	1.74E-14	TH	817.	0.0	7.16E-07
1G	20.0	193	9	10:53	1.38E-16	6.33E-15	6.33E-15	TH	1531	0.0	2.60E-07
1G	30.0	193	9	12:20	7.64E-17	3.50E-15	3.50E-15	TH	2223	0.0	1.44E-07
1G	40.0	193	9	13:46	5.02E-17	2.30E-15	2.30E-15	TH	2902	0.0	9.50E-08
1G	50.0	193	9	15:13	3.63E-17	1.66E-15	1.66E-15	TH	3575	0.0	6.86E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TE: 83/01/14 TIME: 08:20
STABILITY CLASS D

E 6.9 MPH FROM 013 DEG
CURRENT PLUME INFORMATION AS OF 08:15 ON 83/01/14
ABBREVIATED PROJECTION

				DOSE RATE (MR/HR)		HIGH DOSE ORGAN	2.14*SIGMA		CHI/Q
D	MILE	DEG	SEC	TIME	WHOLE BODY	THYROID	DOSE RATE	ID	Y	Z	
JULIAN DAY = 14											
1E	1.7	193	9	8:15	5.31E-01	5.46E-01	5.46E-01	TH	176.	62.3	4.88E-06
1E	SB	193	9	8:15	6.57E-01	6.76E-01	6.76E-01	TH	90.8	0.0	6.04E-06
1E	2.0	193	9	8:17	4.77E-01	4.91E-01	4.91E-01	TH	199.	0.0	4.39E-06
1E	3.0	193	9	8:26	3.25E-01	3.35E-01	3.35E-01	TH	283.	0.0	2.99E-06
1E	4.0	193	9	8:35	2.35E-01	2.42E-01	2.42E-01	TH	363.	0.0	2.16E-06
1E	5.0	193	9	8:43	1.79E-01	1.84E-01	1.84E-01	TH	442.	0.0	1.64E-06
1E	6.0	193	9	8:52	1.42E-01	1.46E-01	1.46E-01	TH	519.	0.0	1.30E-06
1E	7.0	193	9	9: 1	1.16E-01	1.19E-01	1.19E-01	TH	595.	0.0	1.06E-06
1E	8.0	193	9	9: 9	9.73E-02	1.00E-01	1.00E-01	TH	670.	0.0	8.95E-07
1E	9.0	193	9	9:18	8.30E-02	8.55E-02	8.55E-02	TH	744.	0.0	7.63E-07
1E	10.0	193	9	9:27	7.19E-02	7.40E-02	7.40E-02	TH	817.	0.0	6.61E-07
1E	20.0	193	9	10:53	2.73E-02	2.81E-02	2.81E-02	TH	1531	0.0	2.51E-07
1E	30.0	193	9	12:20	1.53E-02	1.57E-02	1.57E-02	TH	2223	0.0	1.41E-07
1E	40.0	193	9	13:46	1.01E-02	1.04E-02	1.04E-02	TH	2902	0.0	9.33E-08
1E	50.0	193	9	15:13	7.36E-03	7.57E-03	7.57E-03	TH	3575	0.0	6.76E-08



ACCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 8:22
3ELEV: 6.9 MPH FROM 013 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 08:15

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

ENTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/14 TIME: 08:37
LEV: 6.9 MPH FROM 013 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 08:30 ON 83/01/14

PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 14											
2G	1.7	194	9	8:45	4.52E-15	2.32E-13	2.32E-13	TH	176.	62.9	9.31E-06
2G	SB	194	9	8:45	1.39E-14	7.13E-13	7.13E-13	TH	91.5	0.0	2.86E-05
1G	3.5	193	9	8:45	1.58E-15	8.14E-14	8.14E-14	TH	319.	94.9	3.38E-06

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/14 TIME: 08:37
EV: 6.9 MPH FROM 013 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 08:30 ON 83/01/14

PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
ULIAN DAY = 14											
2E	1.7	194	9	8:45	1.56E+00	1.81E+00	1.81E+00	TH	175.	62.0	4.91E-06
2E	SB	194	9	8:45	1.91E+00	2.22E+00	2.22E+00	TH	90.8	0.0	6.02E-06
1E	3.5	193	9	8:45	2.93E-01	3.43E-01	3.43E-01	TH	320.	94.5	3.09E-06

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/14 TIME: 08:37
EV: 6.9 MPH FROM 013 DEG STABILITY CLASS D
CURRENT PLUME INFORMATION AS OF 08:30 ON 83/01/14
ABBREVIATED PROJECTION

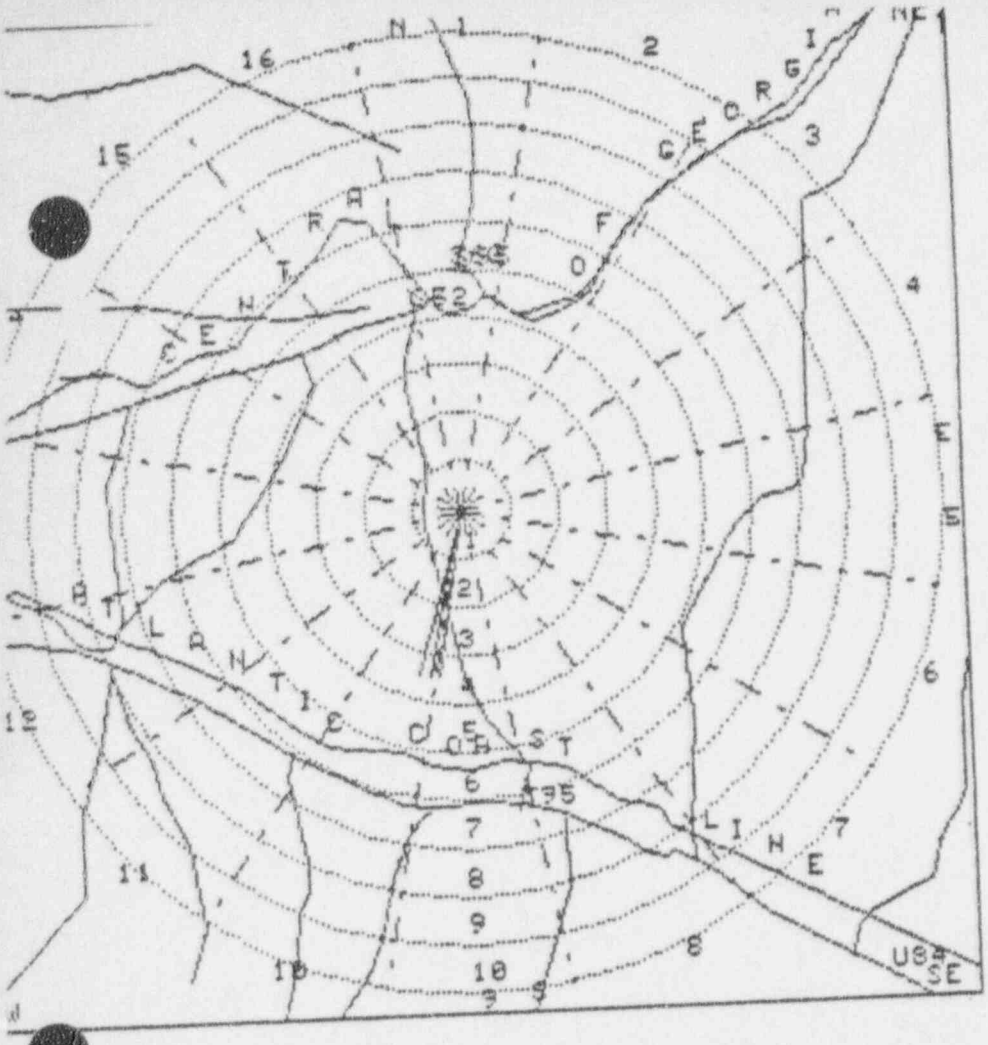
ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JLIAN DAY = 14											
2G	1.7	194	9	8:45	4.52E-15	2.32E-13	2.32E-13	TH	176.	62.9	9.31E-06
2G	SB	194	9	8:45	1.39E-14	7.13E-13	7.13E-13	TH	91.5	0.0	2.86E-05
1G	3.5	193	9	8:45	1.58E-15	8.14E-14	8.14E-14	TH	319.	94.9	3.38E-06
1G	4.0	193	9	8:50	1.28E-15	6.58E-14	6.58E-14	TH	362.	0.0	2.73E-06
1G	5.0	193	9	8:58	9.25E-16	4.75E-14	4.75E-14	TH	441.	0.0	1.97E-06
1G	6.0	194	9	9: 7	7.09E-16	3.64E-14	3.64E-14	TH	518.	0.0	1.51E-06
1G	7.0	194	9	9:16	5.66E-16	2.90E-14	2.90E-14	TH	594.	0.0	1.20E-06
1G	8.0	194	9	9:25	4.65E-16	2.39E-14	2.39E-14	TH	669.	0.0	9.94E-07
1G	9.0	194	9	9:33	3.92E-16	2.01E-14	2.01E-14	TH	743.	0.0	8.37E-07
1G	10.0	194	9	9:42	3.36E-16	1.72E-14	1.72E-14	TH	817.	0.0	7.17E-07
1G	20.0	194	9	11: 9	1.22E-16	6.27E-15	6.27E-15	TH	1530	0.0	2.61E-07
1G	30.0	194	9	12:36	6.77E-17	3.47E-15	3.47E-15	TH	2222	0.0	1.44E-07
1G	40.0	194	9	14: 3	4.45E-17	2.28E-15	2.28E-15	TH	2902	0.0	9.50E-08
1G	50.0	194	9	15:30	3.21E-17	1.65E-15	1.65E-15	TH	3574	0.0	6.86E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/14 TIME: 08:38
LEV: 6.9 MPH FROM 013 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 08:30 ON 83/01/14
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 14											
2E	1.7	194	9	8:45	1.56E+00	1.81E+00	1.81E+00	TH	175.	62.0	4.91E-06
2E	SB	194	9	8:45	1.91E+00	2.22E+00	2.22E+00	TH	90.8	0.0	6.02E-06
1E	3.5	193	9	8:45	2.93E-01	3.43E-01	3.43E-01	TH	320.	94.5	3.09E-06
1E	4.0	193	9	8:50	2.40E-01	2.81E-01	2.81E-01	TH	363.	0.0	2.53E-06
1E	5.0	193	9	8:58	1.76E-01	2.06E-01	2.06E-01	TH	442.	0.0	1.86E-06
1E	6.0	194	9	9: 7	1.36E-01	1.60E-01	1.60E-01	TH	519.	0.0	1.44E-06
1E	7.0	194	9	9:16	1.09E-01	1.28E-01	1.28E-01	TH	595.	0.0	1.16E-06
1E	8.0	194	9	9:25	9.09E-02	1.06E-01	1.06E-01	TH	670.	0.0	9.61E-07
1E	9.0	194	9	9:33	7.69E-02	9.01E-02	9.01E-02	TH	744.	0.0	8.12E-07
1E	10.0	194	9	9:42	6.61E-02	7.75E-02	7.75E-02	TH	817.	0.0	6.99E-07
1E	20.0	194	9	11: 9	2.44E-02	2.85E-02	2.85E-02	TH	1531	0.0	2.57E-07
1E	30.0	194	9	12:36	1.35E-02	1.59E-02	1.59E-02	TH	2223	0.0	1.43E-07
1E	40.0	194	9	14: 3	8.93E-03	1.04E-02	1.04E-02	TH	2902	0.0	9.44E-08
1E	50.0	194	9	15:30	6.46E-03	7.57E-03	7.57E-03	TH	3575	0.0	6.83E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 8:409
ELEV: 6.9 MPH FROM 013 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 08:30

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON
5. ALL ON	
6. ALL OFF	
7. EXIT	

ENTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/14 TIME: 08:47
EV: 6.8 MPH FROM 014 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 08:45 ON 83/01/14
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
ULIAN DAY = 14											
3G	1.7	195	9	8:45	4.78E-15	2.45E-13	2.45E-13	TH	174.	62.6	9.54E-06
3G	SB	195	9	8:45	1.45E-14	7.45E-13	7.45E-13	TH	91.5	0.0	2.89E-05
2G	3.4	194	9	8:45	1.67E-15	8.61E-14	8.61E-14	TH	316.	94.4	3.45E-06
1G	5.2	194	9	8:45	8.87E-16	4.55E-14	4.55E-14	TH	452.	119.	1.89E-06

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 08:47
STABILITY CLASS D

TE: 03/01/14
EV: 6.8 MPH FROM 014 DEG

CURRENT PLUME INFORMATION AS OF 08:45 ON 83/01/14
PRESENT LOCATION

ID	..ILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JLIAN DAY = 14											
3E	1.7	195	9	8:45	2.10E+00	2.43E+00	2.43E+00	TH	174.	61.6	4.97E-06
3E	SB	195	9	8:45	2.54E+00	2.93E+00	2.93E+00	TH	90.8	0.0	6.00E-06
2E	3.4	194	9	8:45	1.00E+00	1.16E+00	1.16E+00	TH	318.	94.0	3.15E-06
1E	5.2	194	9	8:45	1.66E-01	1.95E-01	1.95E-01	TH	454.	119.	1.76E-06

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/14 TIME: 08:47
LEV: 6.8 MPH FROM 014 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 08:45 ON 83/01/14
ABBREVIATED PROJECTION

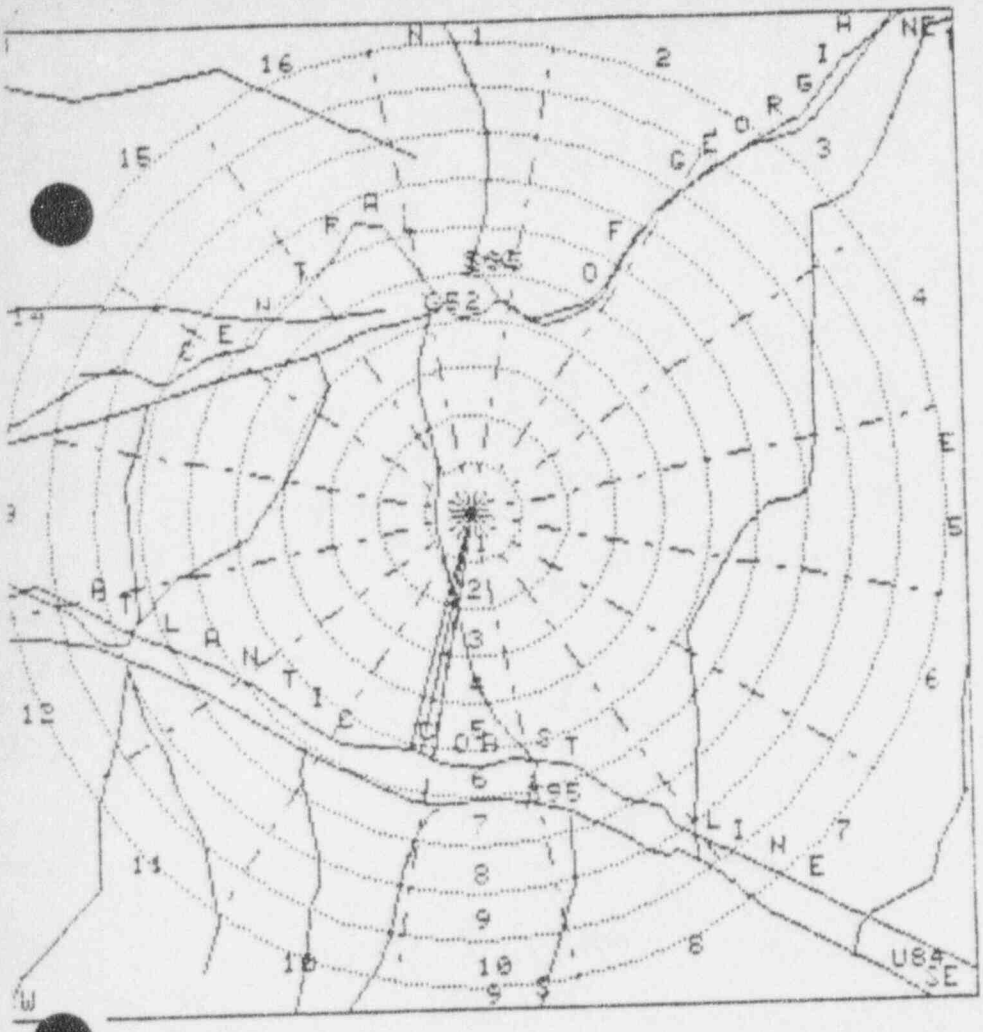
ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY =			14								
3G	1.7	195	9	8:45	4.78E-15	2.45E-13	2.45E-13	TH	174.	62.6	9.54E-06
3G	SB	195	9	8:45	1.45E-14	7.45E-13	7.45E-13	TH	91.5	0.0	2.89E-05
2G	3.4	194	9	8:45	1.67E-15	8.61E-14	8.61E-14	TH	316.	94.4	3.45E-06
1G	5.2	194	9	8:45	2.87E-16	4.55E-14	4.55E-14	TH	452.	119.	1.89E-06
1G	6.0	194	9	8:52	7.12E-16	3.65E-14	3.65E-14	TH	517.	0.0	1.52E-06
1G	7.0	194	9	9: 1	5.68E-16	2.91E-14	2.91E-14	TH	593.	0.0	1.21E-06
1G	8.0	194	9	9:10	4.67E-16	2.39E-14	2.39E-14	TH	668.	0.0	9.97E-07
1G	9.0	194	9	9:19	3.93E-16	2.01E-14	2.01E-14	TH	742.	0.0	8.39E-07
1G	10.0	194	9	9:28	3.37E-16	1.73E-14	1.73E-14	TH	815.	0.0	7.19E-07
1G	20.0	194	9	10:55	1.22E-16	6.28E-15	6.28E-15	TH	1529	0.0	2.61E-07
1G	30.0	194	9	12:23	6.77E-17	3.47E-15	3.47E-15	TH	2221	0.0	1.44E-07
1G	40.0	194	9	13:51	4.45E-17	2.28E-15	2.28E-15	TH	2901	0.0	9.50E-08
1G	50.0	194	9	15:19	3.21E-17	1.65E-15	1.65E-15	TH	3573	0.0	6.87E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/14 TIME: 08:47
LEV: 6.8 MPH FROM 014 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 08:45 ON 83/01/14
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 14											
3E	1.7	195	9	8:45	2.10E+00	2.43E+00	2.43E+00	TH	174.	61.6	4.97E-06
3E	SB	195	9	8:45	2.54E+00	2.93E+00	2.93E+00	TH	90.8	0.0	6.00E-06
2E	3.4	194	9	8:45	1.00E+00	1.16E+00	1.16E+00	TH	318.	94.0	3.15E-06
1E	5.2	194	9	8:45	1.66E-01	1.95E-01	1.95E-01	TH	454.	119.	1.76E-06
1E	6.0	194	9	8:52	1.35E-01	1.58E-01	1.58E-01	TH	519.	0.0	1.43E-06
1E	7.0	194	9	9: 1	1.09E-01	1.27E-01	1.27E-01	TH	595.	0.0	1.15E-06
1E	8.0	194	9	9:10	9.03E-02	1.05E-01	1.05E-01	TH	670.	0.0	9.55E-07
1E	9.0	194	9	9:19	7.64E-02	8.96E-02	8.96E-02	TH	744.	0.0	8.08E-07
1E	10.0	194	9	9:28	6.58E-02	7.71E-02	7.71E-02	TH	817.	0.0	6.95E-07
1E	20.0	194	9	10:55	2.43E-02	2.85E-02	2.85E-02	TH	1531	0.0	2.57E-07
1E	30.0	194	9	12:23	1.35E-02	1.58E-02	1.58E-02	TH	2223	0.0	1.43E-07
1E	40.0	194	9	13:51	8.92E-03	1.04E-02	1.04E-02	TH	2902	0.0	9.43E-08
1E	50.0	194	9	15:19	6.46E-03	7.57E-03	7.57E-03	TH	3575	0.0	6.82E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 8:498
ELEV: 6.8 MPH FROM 014 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 08:45

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

ENTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/14 TIME: 09:02
LEV: 6.8 MPH FROM 015 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 09:00 ON 83/01/14
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 14											
4G	1.7	195	9	9: 0	4.73E-15	2.56E-13	2.56E-13	TH	173.	62.3	9.69E-06
4G	SB	195	9	9: 0	1.42E-14	7.70E-13	7.70E-13	TH	91.5	0.0	2.91E-05
3G	3.4	195	9	9: 0	1.66E-15	9.03E-14	9.03E-14	TH	315.	94.0	3.52E-06
2G	5.1	194	9	9: 0	8.82E-16	4.78E-14	4.78E-14	TH	449.	119.	1.92E-06
1G	6.9	194	9	9: 0	5.53E-16	2.99E-14	2.99E-14	TH	581.	141.	1.25E-06

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TE: 83/01/14 TIME: 09:02
EV: 6.8 MPH FROM 015 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 09:00 ON 83/01/14

PRESENT LOCATION

					DOSE RATE (MR/HR)			HIGH DOSE ORGAN	2.14*SIGMA		CHI/Q
CD	MILE	DEG	SEC	TIME	WHOLE BODY	THYROID	DOSE RATE	ID	Y	Z	
JLIAN DAY = 14											
4E	1.7	195	9	9: 0	2.39E+00	2.93E+00	2.93E+00	TH	173.	61.4	5.00E-06
4E	SB	195	9	9: 0	2.86E+00	3.51E+00	3.51E+00	TH	90.8	0.0	5.99E-06
3E	3.4	195	9	9: 0	1.26E+00	1.56E+00	1.56E+00	TH	315.	93.6	3.21E-06
2E	5.1	194	9	9: 0	5.31E-01	6.59E-01	6.59E-01	TH	451.	119.	1.79E-06
1E	6.9	194	9	9: 0	1.03E-01	1.29E-01	1.29E-01	TH	584.	141.	1.17E-06

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TE: 83/01/14 TIME: 09:02
EV: 6.8 MPH FROM 015 DEG STABILITY CLASS D
CURRENT PLUME INFORMATION AS OF 09:00 ON 83/01/14
ABBREVIATED PROJECTION

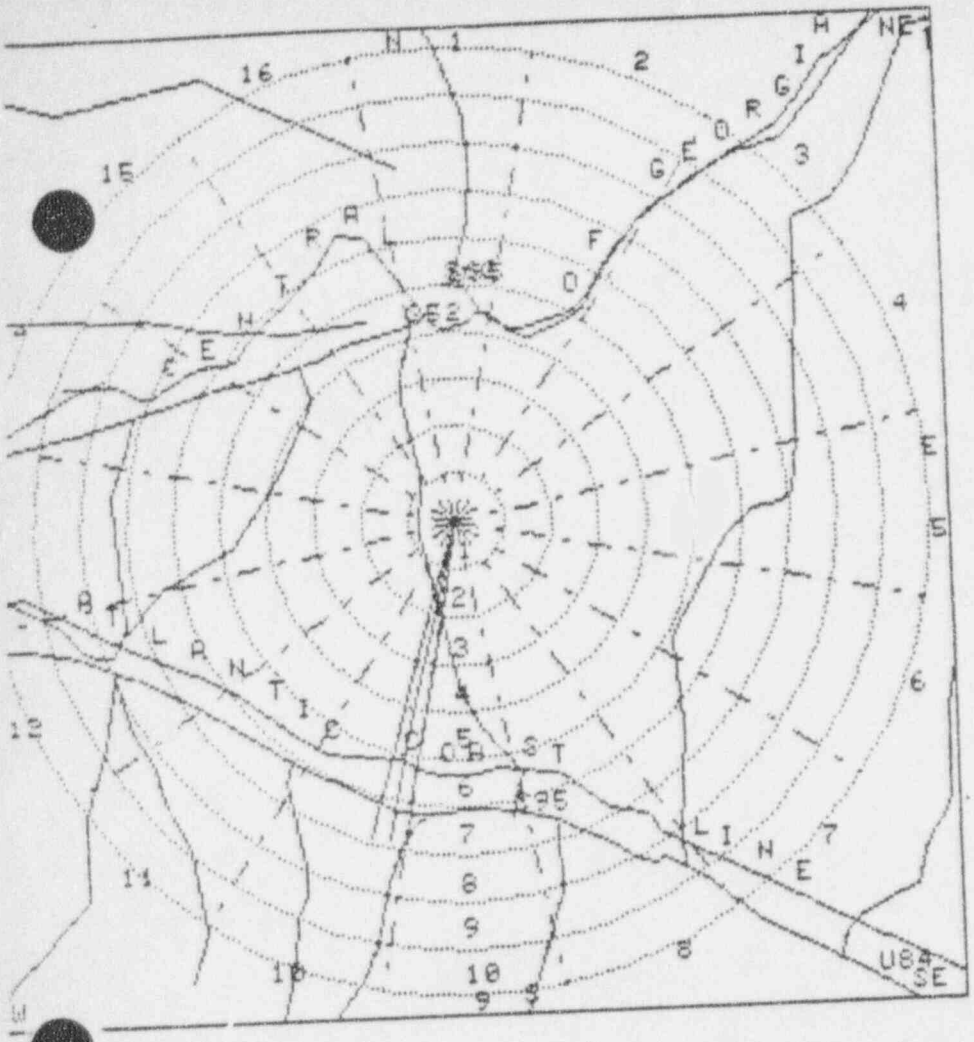
D	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 14											
4G	1.7	195	9	9: 0	4.73E-15	2.56E-13	2.56E-13	TH	173.	62.3	9.69E-06
4G	SB	195	9	9: 0	1.42E-14	7.70E-13	7.70E-13	TH	91.5	0.0	2.91E-05
3G	3.4	195	9	9: 0	1.66E-15	9.03E-14	9.03E-14	TH	315.	94.0	3.52E-06
2G	5.1	194	9	9: 0	8.82E-16	4.78E-14	4.78E-14	TH	449.	119.	1.92E-06
1G	6.9	194	9	9: 0	5.53E-16	2.99E-14	2.99E-14	TH	581.	141.	1.25E-06
1G	7.0	194	9	9: 1	5.37E-16	2.90E-14	2.90E-14	TH	592.	0.0	1.21E-06
1G	8.0	194	9	9:10	4.41E-16	2.39E-14	2.39E-14	TH	667.	0.0	9.99E-07
1G	9.0	194	9	9:19	3.71E-16	2.01E-14	2.01E-14	TH	741.	0.0	8.41E-07
1G	10.0	194	9	9:28	3.18E-16	1.72E-14	1.72E-14	TH	815.	0.0	7.20E-07
1G	20.0	195	9	10:56	1.15E-16	6.26E-15	6.26E-15	TH	1529	0.0	2.61E-07
1G	30.0	195	9	12:25	6.39E-17	3.46E-15	3.46E-15	TH	2220	0.0	1.44E-07
1G	40.0	195	9	13:53	4.20E-17	2.27E-15	2.27E-15	TH	2900	0.0	9.51E-08
1G	50.0	195	9	15:22	3.03E-17	1.64E-15	1.64E-15	TH	3573	0.0	6.87E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TE: 83/01/14 TIME: 09:02
EV: 6.8 MPH FROM 015 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 09:00 ON 83/01/14
ABBREVIATED PROJECTION

.D	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JLIAN DAY = 14											
4E	1.7	195	9	9: 0	2.39E+00	2.93E+00	2.93E+00	TH	173.	61.4	5.00E-06
4E	SE	195	9	9: 0	2.86E+00	3.51E+00	3.51E+00	TH	90.8	0.0	5.99E-06
3E	3.4	195	9	9: 0	1.26E+00	1.56E+00	1.56E+00	TH	315.	93.6	3.21E-06
2E	5.1	194	9	9: 0	5.31E-01	6.59E-01	6.59E-01	TH	451.	119.	1.79E-06
1E	6.9	194	9	9: 0	1.03E-01	1.29E-01	1.29E-01	TH	584.	141.	1.17E-06
1E	7.0	194	9	9: 1	1.00E-01	1.26E-01	1.26E-01	TH	595.	0.0	1.14E-06
1E	8.0	194	9	9:10	8.37E-02	1.04E-01	1.04E-01	TH	670.	0.0	9.47E-07
1E	9.0	194	9	9:19	7.09E-02	8.85E-02	8.85E-02	TH	744.	0.0	8.02E-07
1E	10.0	194	9	9:28	6.10E-02	7.62E-02	7.62E-02	TH	817.	0.0	6.91E-07
1E	20.0	195	9	10:56	2.26E-02	2.83E-02	2.83E-02	TH	1531	0.0	2.56E-07
1E	30.0	195	9	12:25	1.26E-02	1.57E-02	1.57E-02	TH	2223	0.0	1.42E-07
1E	40.0	195	9	13:53	8.32E-03	1.04E-02	1.04E-02	TH	2902	0.0	9.42E-08
1E	50.0	195	9	15:22	6.02E-03	7.52E-03	7.52E-03	TH	3575	0.0	6.82E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 9:043
ELEV: 6.8 MPH FROM 015 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 09:00

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

ENTER CHOICE:7

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/14 TIME: 09:18
LEV: 6.7 MPH FROM 016 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 09:15 ON 83/01/14

PRESENT LOCATION

ID	mILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 14											
5G	1.7	196	9	9:15	4.71E-15	2.69E-13	2.69E-13	TH	172.	62.0	9.93E-06
5G	SB	196	9	9:15	1.39E-14	7.97E-13	7.97E-13	TH	91.5	0.0	2.94E-05
4G	3.4	196	9	9:15	1.66E-15	9.47E-14	9.47E-14	TH	312.	93.4	3.60E-06
3G	5.1	195	9	9:15	8.81E-16	5.03E-14	5.03E-14	TH	446.	118.	1.97E-06
2G	6.8	195	9	9:15	5.52E-16	3.15E-14	3.15E-14	TH	576.	140.	1.27E-06
1G	8.5	194	9	9:15	3.80E-16	2.17E-14	2.17E-14	TH	705.	159.	9.11E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 09:18
STABILITY CLASS D

TE: 83/01/14
EV: 6.7 MPH FROM 016 DEG

CURRENT PLUME INFORMATION AS OF 09:15 ON 83/01/14
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JLIAN DAY =		14									
5E	1.7	196	9	9:15	2.59E+00	3.36E+00	3.36E+00	TH	172.	61.0	5.06E-06
5E	5B	196	9	9:15	3.06E+00	3.96E+00	3.96E+00	TH	90.8	0.0	5.97E-06
4E	3.4	19[illegible]	9	9:15	1.46E+00	1.90E+00	1.90E+00	TH	313.	93.1	3.26E-06
3E	5.1	19[illegible]	9	9:15	6.76E-01	8.87E-01	8.87E-01	TH	448.	118.	1.83E-06
2E	6.8	195	9	9:15	3.31E-01	4.38E-01	4.38E-01	TH	580.	140.	1.19E-06
1E	8.5	194	9	9:15	7.24E-02	9.63E-02	9.63E-02	TH	709.	159.	8.76E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/14 TIME: 09:18
LEV: 6.7 MPH FROM 016 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 09:15 ON 83/01/14
ABBREVIATED PROJECTION

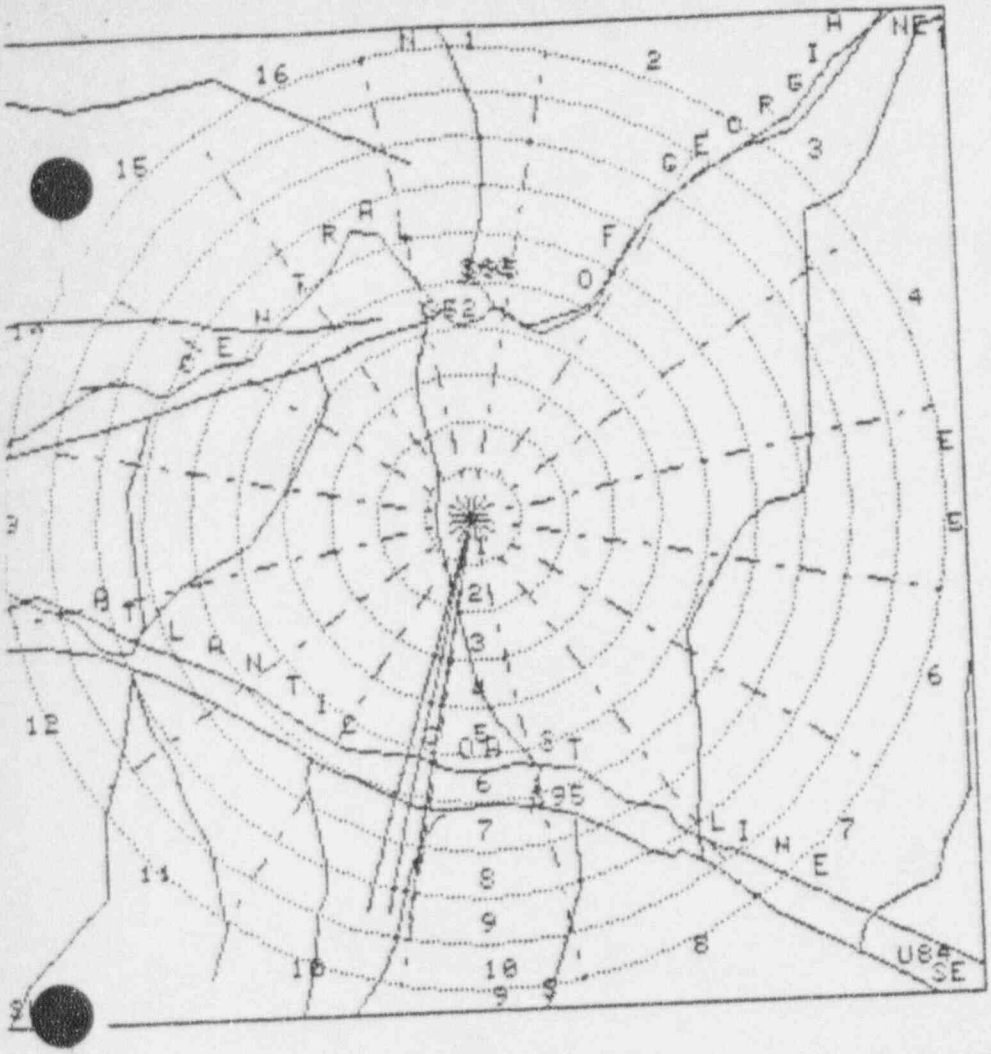
ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 14											
SG	1.7	196	9	9:15	4.71E-15	2.69E-13	2.69E-13	TH	172.	62.0	9.93E-06
SG	SB	196	9	9:15	1.39E-14	7.97E-13	7.97E-13	TH	91.5	0.0	2.94E-05
4G	3.4	196	9	9:15	1.66E-15	9.47E-14	9.47E-14	TH	312.	93.4	3.60E-06
3G	5.1	195	9	9:15	8.81E-16	5.03E-14	5.03E-14	TH	446.	118.	1.97E-06
2G	6.8	195	9	9:15	5.52E-16	3.15E-14	3.15E-14	TH	576.	140.	1.27E-06
1G	8.5	194	9	9:15	3.80E-16	2.17E-14	2.17E-14	TH	705.	159.	9.11E-07
1G	9.0	195	9	9:19	3.51E-16	2.00E-14	2.00E-14	TH	740.	0.0	8.43E-07
1G	10.0	195	9	9:28	3.01E-16	1.72E-14	1.72E-14	TH	813.	0.0	7.22E-07
1G	20.0	195	9	10:58	1.09E-16	6.23E-15	6.23E-15	TH	1527	0.0	2.61E-07
1G	30.0	196	9	12:27	6.04E-17	3.45E-15	3.45E-15	TH	2219	0.0	1.44E-07
1G	40.0	196	9	13:56	3.97E-17	2.26E-15	2.26E-15	TH	2899	0.0	9.51E-08
1G	50.0	196	9	15:26	2.86E-17	1.63E-15	1.63E-15	TH	3572	0.0	6.87E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/14 TIME: 09:18
LEV: 6.7 MPH FROM 016 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 09:15 ON 83/01/14
ABBREVIATED PROJECTION

ID	mILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
ULIAN DAY = 14											
5E	1.7	196	9	9:15	2.59E+00	3.36E+00	3.36E+00	TH	172.	61.0	5.06E-06
5E	SB	196	9	9:15	3.06E+00	3.96E+00	3.96E+00	TH	90.8	0.0	5.97E-06
4E	3.4	196	9	9:15	1.46E+00	1.90E+00	1.90E+00	TH	313.	93.1	3.26E-06
3E	5.1	195	9	9:15	6.76E-01	8.87E-01	8.87E-01	TH	448.	118.	1.83E-06
2E	6.8	195	9	9:15	3.31E-01	4.38E-01	4.38E-01	TH	580.	140.	1.19E-06
1E	8.5	194	9	9:15	7.24E-02	9.63E-02	9.63E-02	TH	709.	159.	8.76E-07
1E	9.0	195	9	9:19	6.71E-02	8.92E-02	8.92E-02	TH	744.	0.0	8.12E-07
1E	10.0	195	9	9:28	5.77E-02	7.67E-02	7.67E-02	TH	817.	0.0	6.99E-07
1E	20.0	195	9	10:58	2.13E-02	2.83E-02	2.83E-02	TH	1531	0.0	2.57E-07
1E	30.0	196	9	12:27	1.18E-02	1.57E-02	1.57E-02	TH	2223	0.0	1.43E-07
1E	40.0	196	9	13:56	7.80E-03	1.03E-02	1.03E-02	TH	2903	0.0	9.44E-08
1E	50.0	196	9	15:26	5.64E-03	7.50E-03	7.50E-03	TH	3575	0.0	6.83E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 9:209
ELEV: 6.7 MPH FROM 016 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 09:15

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

JNTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 09:32
STABILITY CLASS D

TE: 83/01/14
EV: 6.8 MPH FROM 016 DEG

CURRENT PLUME INFORMATION AS OF 09:30 ON 83/01/14

PRESENT LOCATION

D	..LE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
ILIAN DAY =		14									
6G	1.7	197	9	9:30	4.47E-15	2.68E-13	2.68E-13	TH	173.	62.3	9.69E-06
6G	SB	197	9	9:30	1.34E-14	8.07E-13	8.07E-13	TH	91.5	0.0	2.91E-05
5G	3.4	196	9	9:30	1.60E-15	9.67E-14	9.67E-14	TH	315.	94.0	3.58E-06
4G	5.1	196	9	9:30	8.61E-16	5.17E-14	5.17E-14	TH	447.	118.	1.97E-06
3G	6.8	196	9	9:30	5.45E-16	3.27E-14	3.27E-14	TH	577.	140.	1.28E-06
2G	8.5	195	9	9:30	3.76E-16	2.25E-14	2.25E-14	TH	704.	159.	9.19E-07
1G	10.2	195	9	9:30	2.75E-16	1.65E-14	1.65E-14	TH	831.	177.	6.97E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TE: 83/01/14 TIME: 09:32
EV: 6.8 MPH FROM 016 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 09:30 ON 83/01/14
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JLIAN DAY = 14											
6E	1.7	197	9	9:30	2.63E+00	3.60E+00	3.60E+00	TH	173.	61.4	5.00E-06
6E	SB	197	9	9:30	3.15E+00	4.31E+00	4.31E+00	TH	90.8	0.0	5.99E-06
5E	3.4	196	9	9:30	1.58E+00	2.18E+00	2.18E+00	TH	313.	93.1	3.29E-06
4E	5.1	196	9	9:30	7.73E-01	1.07E+00	1.07E+00	TH	447.	118.	1.84E-06
3E	6.8	196	9	9:30	4.19E-01	5.85E-01	5.85E-01	TH	577.	140.	1.21E-06
2E	8.5	195	9	9:30	2.30E-01	3.23E-01	3.23E-01	TH	706.	159.	8.88E-07
1E	10.2	195	9	9:30	5.05E-02	7.15E-02	7.15E-02	TH	834.	177.	6.53E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 09:33
STABILITY CLASS D

TE: 83/01/14
EV: 6.8 MPH FROM 016 DEG

CURRENT PLUME INFORMATION AS OF 09:30 ON 83/01/14
ABBREVIATED PROJECTION

D	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JLIAN DAY =			14								
6G	1.7	197	9	9:30	4.47E-15	2.68E-13	2.68E-13	TH	173.	62.3	9.69E-06
6G	SB	197	9	9:30	1.34E-14	8.07E-13	8.07E-13	TH	91.5	0.0	2.91E-05
5G	3.4	196	9	9:30	1.60E-15	9.67E-14	9.67E-14	TH	315.	94.0	3.58E-06
4G	5.1	196	9	9:30	8.61E-16	5.17E-14	5.17E-14	TH	447.	118.	1.97E-06
3G	6.8	196	9	9:30	5.45E-16	3.27E-14	3.27E-14	TH	577.	140.	1.28E-06
2G	8.5	195	9	9:30	3.76E-16	2.25E-14	2.25E-14	TH	704.	159.	9.19E-07
1G	10.2	195	9	9:30	2.75E-16	1.65E-14	1.65E-14	TH	831.	177.	6.97E-07
1G	20.0	196	9	10:57	1.03E-16	6.20E-15	6.20E-15	TH	1529	0.0	2.61E-07
1G	30.0	196	9	12:25	5.71E-17	3.43E-15	3.43E-15	TH	2220	0.0	1.44E-07
1G	40.0	196	9	13:54	3.75E-17	2.25E-15	2.25E-15	TH	2900	0.0	9.51E-08
1G	50.0	196	9	15:22	2.71E-17	1.63E-15	1.63E-15	TH	3573	0.0	6.87E-08

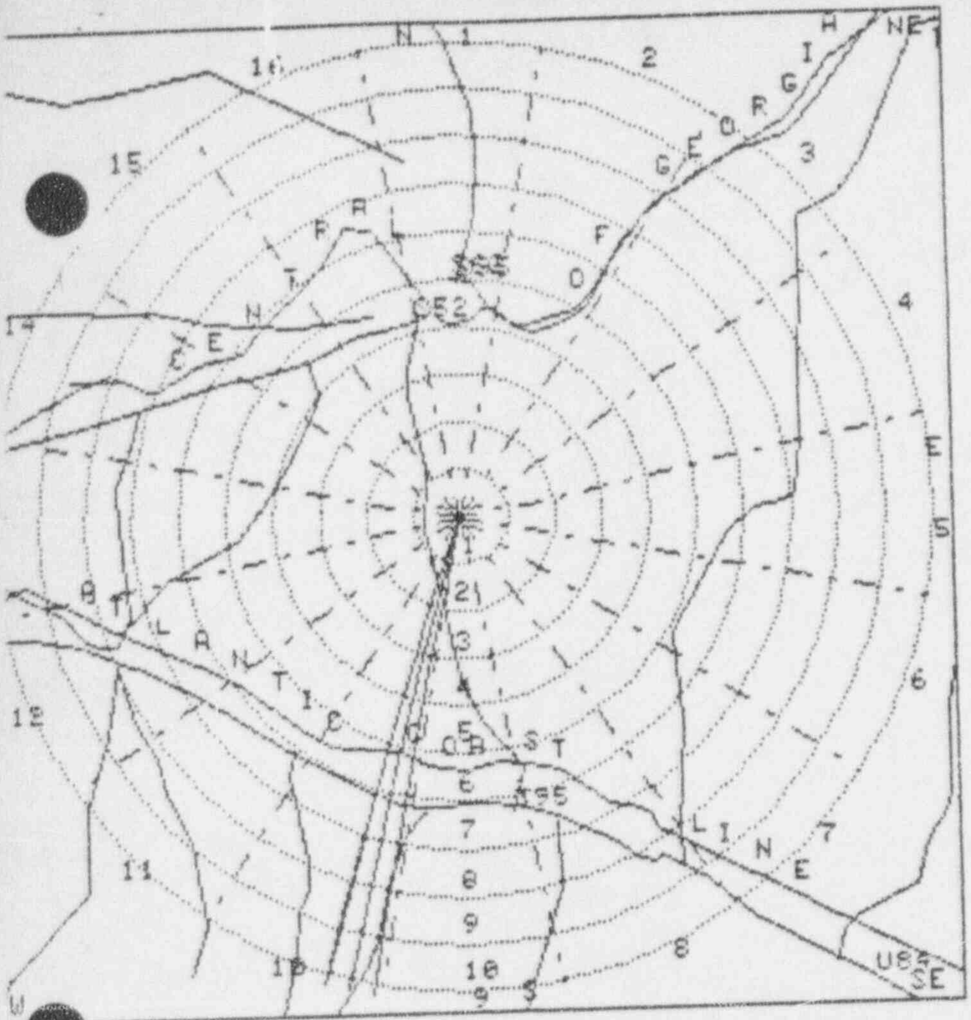
ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 09:33
STABILITY CLASS D

TE: 83/01/14
EV: 6.8 MPH FROM 016 DEG

CURRENT PLUME INFORMATION AS OF 09:30 ON 83/01/14
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 14											
6E	1.7	197	9	9:30	2.63E+00	3.60E+00	3.60E+00	TH	173.	61.4	5.00E-06
6E	SB	197	9	9:30	3.15E+00	4.31E+00	4.31E+00	TH	90.8	0.0	5.99E-06
5E	3.4	196	9	9:30	1.58E+00	2.18E+00	2.18E+00	TH	313.	93.1	3.29E-06
4E	5.1	196	9	9:30	7.73E-01	1.07E+00	1.07E+00	TH	447.	118.	1.84E-06
3E	6.8	196	9	9:30	4.19E-01	5.85E-01	5.85E-01	TH	577.	140.	1.21E-06
2E	8.5	195	9	9:30	2.30E-01	3.23E-01	3.23E-01	TH	706.	159.	8.88E-07
1E	10.2	195	9	9:30	5.05E-02	7.15E-02	7.15E-02	TH	834.	177.	6.53E-07
1E	20.0	196	9	10:57	1.96E-02	2.77E-02	2.77E-02	TH	1531	0.0	2.53E-07
1E	30.0	196	9	12:25	1.09E-02	1.55E-02	1.55E-02	TH	2223	0.0	1.41E-07
1E	40.0	196	9	13:54	7.25E-03	1.02E-02	1.02E-02	TH	2903	0.0	9.37E-08
1E	50.0	196	9	15:22	5.25E-03	7.42E-03	7.42E-03	TH	3575	0.0	6.79E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 09:34
ELEV: 6.8 MPH FROM 016 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 09:30

ROADS AND RAILROADS TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON
5. ALL ON	
6. ALL OFF	
7. EXIT	

ENTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/14 TIME: 09:47
ELEV: 6.8 MPH FROM 017 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 09:45 ON 83/01/14

PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 14											
7G	1.7	197	9	9:45	4.28E-15	2.70E-13	2.70E-13	TH	174.	62.6	9.54E-06
7G	SB	197	9	9:45	1.29E-14	8.20E-13	8.20E-13	TH	91.5	0.0	2.89E-05
6G	3.4	197	9	9:45	1.53E-15	9.70E-14	9.70E-14	TH	316.	94.4	3.51E-06
5G	5.1	197	9	9:45	8.39E-16	5.30E-14	5.30E-14	TH	450.	119.	1.97E-06
4G	6.8	196	9	9:45	5.33E-16	3.36E-14	3.36E-14	TH	578.	140.	1.29E-06
3G	8.5	196	9	9:45	3.71E-16	2.34E-14	2.34E-14	TH	705.	159.	9.26E-07
2G	10.2	196	9	9:45	2.72E-16	1.71E-14	1.71E-14	TH	831.	177.	7.02E-07
1G	11.9	195	9	9:45	2.07E-16	1.31E-14	1.31E-14	TH	956.	193.	5.55E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TE: 83/01/14 TIME: 09:47
EV: 6.8 MPH FROM 017 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 09:45 ON 83/01/14
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 14											
7E	1.7	197	9	9:45	2.65E+00	3.82E+00	3.82E+00	TH	174.	61.6	4.97E-06
7E	SB	197	9	9:45	3.20E+00	4.62E+00	4.62E+00	TH	90.8	0.0	6.00E-06
6E	3.4	197	9	9:45	1.59E+00	2.31E+00	2.31E+00	TH	315.	93.6	3.23E-06
5E	5.1	197	9	9:45	8.36E-01	1.22E+00	1.22E+00	TH	448.	118.	1.85E-06
4E	6.8	196	9	9:45	4.79E-01	7.05E-01	7.05E-01	TH	577.	140.	1.22E-06
3E	8.5	196	9	9:45	2.91E-01	4.31E-01	4.31E-01	TH	705.	159.	8.99E-07
2E	10.2	196	9	9:45	1.60E-01	2.39E-01	2.39E-01	TH	832.	176.	6.60E-07
1E	11.9	195	9	9:45	3.82E-02	5.73E-02	5.73E-02	TH	958.	193.	5.27E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TE: 83/01/14 TIME: 09:47
EV: 6.8 MPH FROM 017 DEG STABILITY CLASS D
CURRENT PLUME INFORMATION AS OF 09:45 ON 83/01/14
ABBREVIATED PROJECTION

D	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JLIAN DAY = 14											
7G	1.7	197	9	9:45	4.28E-15	2.70E-13	2.70E-13	TH	174.	62.6	9.54E-06
7G	SB	197	9	9:45	1.29E-14	8.20E-13	8.20E-13	TH	91.5	0.0	2.89E-05
6G	3.4	197	9	9:45	1.53E-15	9.70E-14	9.70E-14	TH	316.	94.4	3.51E-06
5G	5.1	197	9	9:45	8.39E-16	5.30E-14	5.30E-14	TH	450.	119.	1.97E-06
4G	6.8	196	9	9:45	5.33E-16	3.36E-14	3.36E-14	TH	578.	140.	1.29E-06
3G	8.5	196	9	9:45	3.71E-16	2.34E-14	2.34E-14	TH	705.	159.	9.26E-07
2G	10.2	196	9	9:45	2.72E-16	1.71E-14	1.71E-14	TH	831.	177.	7.02E-07
1G	11.9	195	9	9:45	2.07E-16	1.31E-14	1.31E-14	TH	956.	193.	5.55E-07
1G	20.0	196	9	10:56	9.77E-17	6.17E-15	6.17E-15	TH	1530	0.0	2.61E-07
1G	30.0	197	9	12:24	5.40E-17	3.41E-15	3.41E-15	TH	2221	0.0	1.44E-07
1G	40.0	197	9	13:52	3.55E-17	2.24E-15	2.24E-15	TH	2901	0.0	9.50E-08
1G	50.0	197	9	15:20	2.56E-17	1.62E-15	1.62E-15	TH	3574	0.0	6.36E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

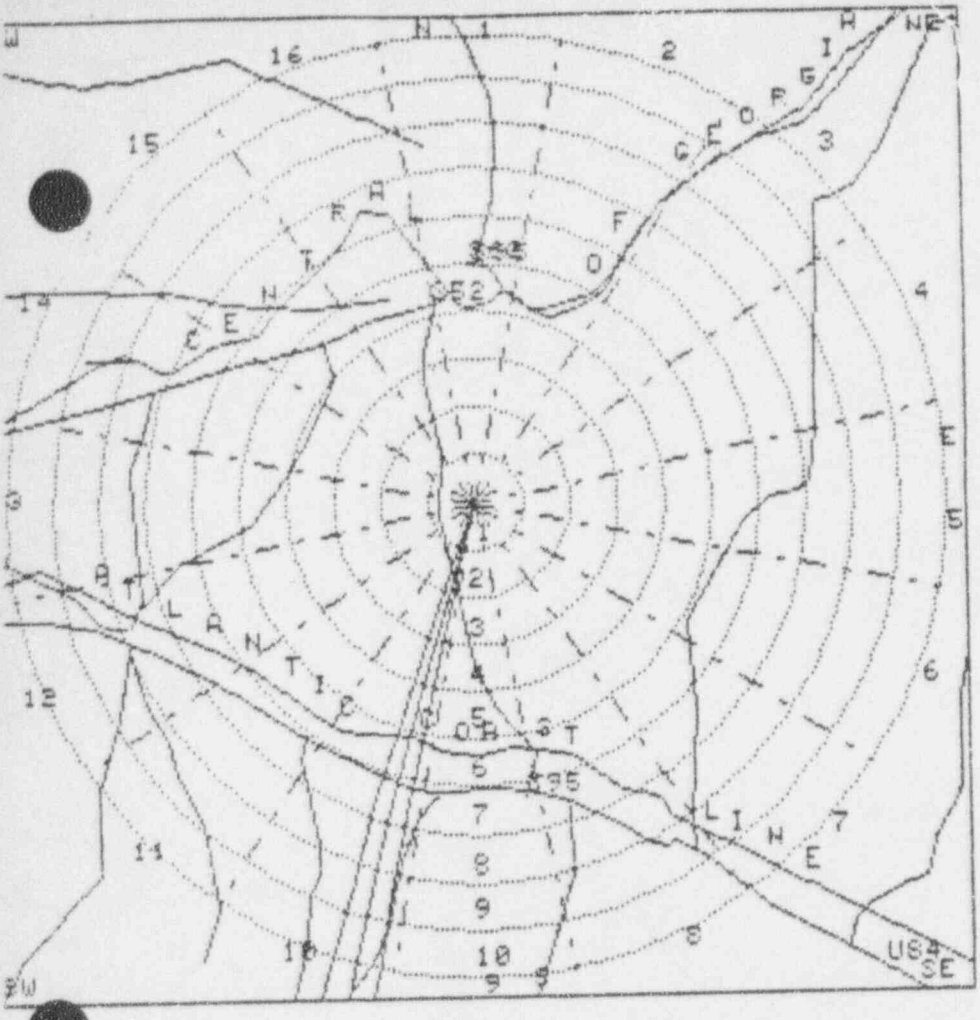
TIME: 09:48

ATE: 83/01/14
EV: 6.8 MPH FROM 017 DEG

STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 09:45 ON 83/01/14
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 14											
7E	1.7	197	9	9:45	2.65E+00	3.82E+00	3.82E+00	TH	174.	61.6	4.97E-06
7E	SB	197	9	9:45	3.20E+00	4.62E+00	4.62E+00	TH	90.8	0.0	6.00E-06
6E	3.4	197	9	9:45	1.59E+00	2.31E+00	2.31E+00	TH	315.	93.6	3.23E-06
5E	5.1	197	9	9:45	8.36E-01	1.22E+00	1.22E+00	TH	448.	118.	1.85E-06
4E	6.8	196	9	9:45	4.79E-01	7.05E-01	7.05E-01	TH	577.	140.	1.22E-06
3E	8.5	196	9	9:45	2.91E-01	4.31E-01	4.31E-01	TH	705.	159.	8.99E-07
2E	10.2	196	9	9:45	1.60E-01	2.39E-01	2.39E-01	TH	832.	176.	6.60E-07
1E	11.9	195	9	9:45	3.82E-02	5.73E-02	5.73E-02	TH	959.	193.	5.27E-07
1E	20.0	196	9	10:56	1.83E-02	2.76E-02	2.76E-02	TH	1531	0.0	2.53E-07
1E	30.0	197	9	12:24	1.02E-02	1.54E-02	1.54E-02	TH	2223	0.0	1.41E-07
1E	40.0	197	9	13:52	6.79E-03	1.02E-02	1.02E-02	TH	2903	0.0	9.37E-08
1E	50.0	197	9	15:20	4.92E-03	7.39E-03	7.39E-03	TH	3575	0.0	6.79E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 09:49
ELEV: 6.8 MPH FROM 017 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 09:45

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

ENTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TE: 83/01/14 TIME: 10:02
EV: 6.9 MPH FROM 018 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 10:00 ON 83/01/14

PRESENT LOCATION

D	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
LIAN DAY =		14									
8G	1.7	198	9	10: 0	4.06E-15	2.69E-13	2.69E-13	TH	176.	62.9	9.31E-06
8G	SB	198	9	10: 0	1.25E-14	8.28E-13	8.28E-13	TH	91.5	0.0	2.86E-05
7G	3.4	198	9	10: 0	1.46E-15	9.71E-14	9.71E-14	TH	319.	94.9	3.44E-06
6G	5.1	198	9	10: 0	8.00E-16	5.30E-14	5.30E-14	TH	454.	120.	1.92E-06
5G	6.8	197	9	10: 0	5.19E-16	3.44E-14	3.44E-14	TH	583.	141.	1.28E-06
4G	8.5	197	9	10: 0	3.62E-16	2.40E-14	2.40E-14	TH	709.	160.	9.25E-07
3G	10.2	196	9	10: 0	2.68E-16	1.77E-14	1.77E-14	TH	833.	177.	7.06E-07
2G	11.9	196	9	10: 0	2.05E-16	1.35E-14	1.35E-14	TH	957.	193.	5.58E-07
1G	13.6	196	9	10: 0	1.61E-16	1.07E-14	1.07E-14	TH	1082	208.	4.55E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/14 TIME: 10:02
LEV: 6.9 MPH FROM 018 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 10:00 ON 83/01/14
PRESENT LOCATION

					DOSE RATE (MR/HR)		HIGH DOSE ORGAN	2.14*SIGMA		CHI/Q
ID	MILE	DEG	SEC	TIME	WHOLE BODY	THYROID	DOSE RATE ID	Y	Z	
JULIAN DAY = 14										
8E	1.7	198	9	10: 0	2.60E+00	3.95E+00	3.95E+00	TH 175.	62.0	4.91E-06
8E	SB	198	9	10: 0	3.19E+00	4.85E+00	4.85E+00	TH 90.8	0.0	6.02E-06
7E	3.4	198	9	10: 0	1.59E+00	2.43E+00	2.43E+00	TH 318.	94.0	3.17E-06
6E	5.1	198	9	10: 0	8.41E-01	1.29E+00	1.29E+00	TH 451.	119.	1.82E-06
5E	6.8	197	9	10: 0	5.17E-01	8.03E-01	8.03E-01	TH 580.	140.	1.22E-06
4E	8.5	197	9	10: 0	3.31E-01	5.18E-01	5.18E-01	TH 706.	159.	9.02E-07
3E	10.2	196	9	10: 0	2.02E-01	3.18E-01	3.18E-01	TH 832.	176.	6.66E-07
2E	11.9	196	9	10: 0	1.21E-01	1.91E-01	1.91E-01	TH 957.	193.	5.31E-07
1E	13.6	196	9	10: 0	2.96E-02	4.72E-02	4.72E-02	TH 1083	208.	4.36E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/14 TIME: 10:03
LEV: 6.9 MPH FROM 018 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 10:00 ON 83/01/14
ABBREVIATED PROJECTION

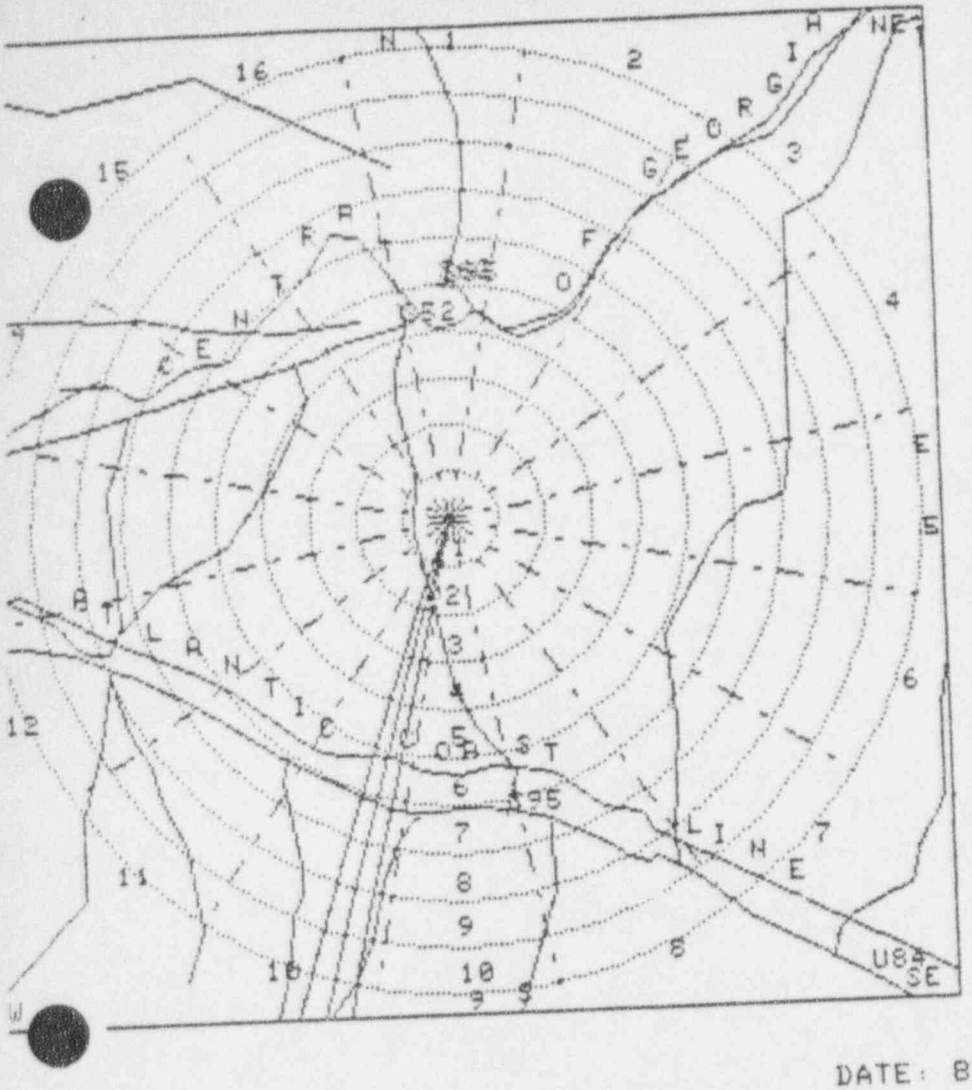
ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
ULIAN DAY = 14											
8G	1.7	198	9	10: 0	4.06E-15	2.69E-13	2.69E-13	TH	176.	62.9	9.31E-06
8G	SB	198	9	10: 0	1.25E-14	8.28E-13	8.28E-13	TH	91.5	0.0	2.86E-05
7G	3.4	198	9	10: 0	1.46E-15	9.71E-14	9.71E-14	TH	319.	94.9	3.44E-06
6G	5.1	198	9	10: 0	8.00E-16	5.30E-14	5.30E-14	TH	454.	120.	1.92E-06
5G	6.8	197	9	10: 0	5.19E-16	3.44E-14	3.44E-14	TH	583.	141.	1.28E-06
4G	8.5	197	9	10: 0	3.62E-16	2.40E-14	2.40E-14	TH	709.	160.	9.25E-07
3G	10.2	196	9	10: 0	2.68E-16	1.77E-14	1.77E-14	TH	833.	177.	7.06E-07
2G	11.9	196	9	10: 0	2.05E-16	1.35E-14	1.35E-14	TH	957.	193.	5.58E-07
1G	13.6	196	9	10: 0	1.61E-16	1.07E-14	1.07E-14	TH	1082	208.	4.55E-07
1G	20.0	196	9	10:55	9.25E-17	6.13E-15	6.13E-15	TH	1531	0.0	2.60E-07
1G	30.0	197	9	12:22	5.12E-17	3.39E-15	3.39E-15	TH	2222	0.0	1.44E-07
1G	40.0	197	9	13:49	3.37E-17	2.23E-15	2.23E-15	TH	2902	0.0	9.50E-08
1G	50.0	198	9	15:17	2.43E-17	1.61E-15	1.61E-15	TH	3575	0.0	6.86E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 10:03
STABILITY CLASS D

ATE: 83/01/14
LEV: 6.9 MPH FROM 018 DEG
CURRENT PLUME INFORMATION AS OF 10:00 ON 83/01/14
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 14											
BE	1.7	198	9	10: 0	2.60E+00	3.95E+00	3.95E+00	TH	175.	62.0	4.91E-06
BE	SB	198	9	10: 0	3.19E+00	4.85E+00	4.85E+00	TH	90.8	0.0	6.02E-06
7E	3.4	198	9	10: 0	1.59E+00	2.43E+00	2.43E+00	TH	318.	94.0	3.17E-06
6E	5.1	198	9	10: 0	8.41E-01	1.29E+00	1.29E+00	TH	451.	119.	1.82E-06
5E	6.8	197	9	10: 0	5.17E-01	8.03E-01	8.03E-01	TH	580.	140.	1.22E-06
4E	8.5	197	9	10: 0	3.31E-01	5.18E-01	5.18E-01	TH	706.	159.	9.02E-07
3E	10.2	196	9	10: 0	2.02E-01	3.18E-01	3.18E-01	TH	832.	176.	6.66E-07
2E	11.9	196	9	10: 0	1.21E-01	1.91E-01	1.91E-01	TH	957.	193.	5.31E-07
1E	13.6	196	9	10: 0	2.96E-02	4.72E-02	4.72E-02	TH	1083	208.	4.36E-07
1E	20.0	196	9	10:55	1.72E-02	2.74E-02	2.74E-02	TH	1532	0.0	2.53E-07
1E	30.0	197	9	12:22	9.64E-03	1.53E-02	1.53E-02	TH	2223	0.0	1.41E-07
1E	40.0	197	9	13:49	6.37E-03	1.01E-02	1.01E-02	TH	2903	0.0	9.37E-08
1E	50.0	198	9	15:17	4.61E-03	7.35E-03	7.35E-03	TH	3576	0.0	6.79E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 10:04
ELEV: 6.9 MPH FROM 018 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 10:00

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

ENTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 10:17
STABILITY CLASS D

ATE: 83/01/14
EV: 6.9 MPH FROM 019 DEG

CURRENT PLUME INFORMATION AS OF 10:15 ON 83/01/14

PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JLIAN DAY = 14											
9G	1.7	199	9	10:15	3.88E-15	2.70E-13	2.70E-13	TH	177.	63.2	9.17E-06
9G	SB	199	9	10:15	1.20E-14	8.38E-13	8.38E-13	TH	91.5	0.0	2.84E-05
8G	3.5	199	9	10:15	1.39E-15	9.71E-14	9.71E-14	TH	321.	95.3	3.37E-06
7G	5.2	198	9	10:15	7.66E-16	5.32E-14	5.32E-14	TH	457.	120.	1.89E-06
6G	6.9	198	9	10:15	4.96E-16	3.45E-14	3.45E-14	TH	587.	141.	1.26E-06
5G	8.5	198	9	10:15	3.54E-16	2.46E-14	2.46E-14	TH	714.	160.	9.24E-07
4G	10.2	197	9	10:15	2.62E-16	1.82E-14	1.82E-14	TH	837.	177.	7.05E-07
3G	11.9	197	9	10:15	2.02E-16	1.40E-14	1.40E-14	TH	960.	193.	5.61E-07
2G	13.6	196	9	10:15	1.59E-16	1.10E-14	1.10E-14	TH	1083	208.	4.57E-07
1G	15.4	196	9	10:15	1.28E-16	8.94E-15	8.94E-15	TH	1206	222.	3.82E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/14 TIME: 10:17
EV: 6.9 MPH FROM 019 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 10:15 ON 83/01/14
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JLIAN DAY = 14											
9E	1.7	199	9	10:15	2.55E+00	4.09E+00	4.09E+00	TH	176.	62.3	4.88E-06
9E	SB	199	9	10:15	3.16E+00	5.06E+00	5.06E+00	TH	90.8	0.0	6.04E-06
8E	3.5	199	9	10:15	1.54E+00	2.49E+00	2.49E+00	TH	320.	94.5	3.11E-06
7E	5.2	198	9	10:15	8.41E-01	1.36E+00	1.36E+00	TH	454.	119.	1.79E-06
6E	6.9	198	9	10:15	5.21E-01	8.52E-01	8.52E-01	TH	584.	141.	1.20E-06
5E	8.5	198	9	10:15	3.58E-01	5.90E-01	5.90E-01	TH	709.	159.	9.04E-07
4E	10.2	197	9	10:15	2.30E-01	3.82E-01	3.82E-01	TH	834.	177.	6.68E-07
3E	11.9	197	9	10:15	1.52E-01	2.54E-01	2.54E-01	TH	958.	193.	5.35E-07
2E	13.6	196	9	10:15	9.40E-02	1.57E-01	1.57E-01	TH	1083	208.	4.38E-07
1E	15.4	196	9	10:15	2.35E-02	3.97E-02	3.97E-02	TH	1206	222.	3.68E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/14 TIME: 10:18
ELEV: 6.9 MPH FROM 019 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 10:15 ON 83/01/14
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 14											
9G	1.7	199	9	10:15	3.88E-15	2.70E-13	2.70E-13	TH	177.	63.2	9.17E-06
9G	SB	199	9	10:15	1.20E-14	8.38E-13	8.38E-13	TH	91.5	0.0	2.84E-05
8G	3.5	199	9	10:15	1.39E-15	9.71E-14	9.71E-14	TH	321.	95.3	3.37E-06
7G	5.2	198	9	10:15	7.66E-16	5.32E-14	5.32E-14	TH	457.	120.	1.89E-06
6G	6.9	198	9	10:15	4.96E-16	3.45E-14	3.45E-14	TH	587.	141.	1.26E-06
5G	8.5	198	9	10:15	3.54E-16	2.46E-14	2.46E-14	TH	714.	160.	9.24E-07
4G	10.2	197	9	10:15	2.62E-16	1.82E-14	1.82E-14	TH	837.	177.	7.05E-07
3G	11.9	197	9	10:15	2.02E-16	1.40E-14	1.40E-14	TH	960.	193.	5.61E-07
2G	13.6	196	9	10:15	1.59E-16	1.10E-14	1.10E-14	TH	1083	208.	4.57E-07
1G	15.4	196	9	10:15	1.28E-16	8.94E-15	8.94E-15	TH	1206	222.	3.82E-07
1G	20.0	197	9	10:55	8.78E-17	6.10E-15	6.10E-15	TH	1532	0.0	2.60E-07
1G	30.0	197	9	12:21	4.86E-17	3.38E-15	3.38E-15	TH	2223	0.0	1.44E-07
1G	40.0	198	9	13:48	3.19E-17	2.22E-15	2.22E-15	TH	2903	0.0	9.49E-08
1G	50.0	198	9	15:15	2.31E-17	1.60E-15	1.60E-15	TH	3576	0.0	6.86E-08

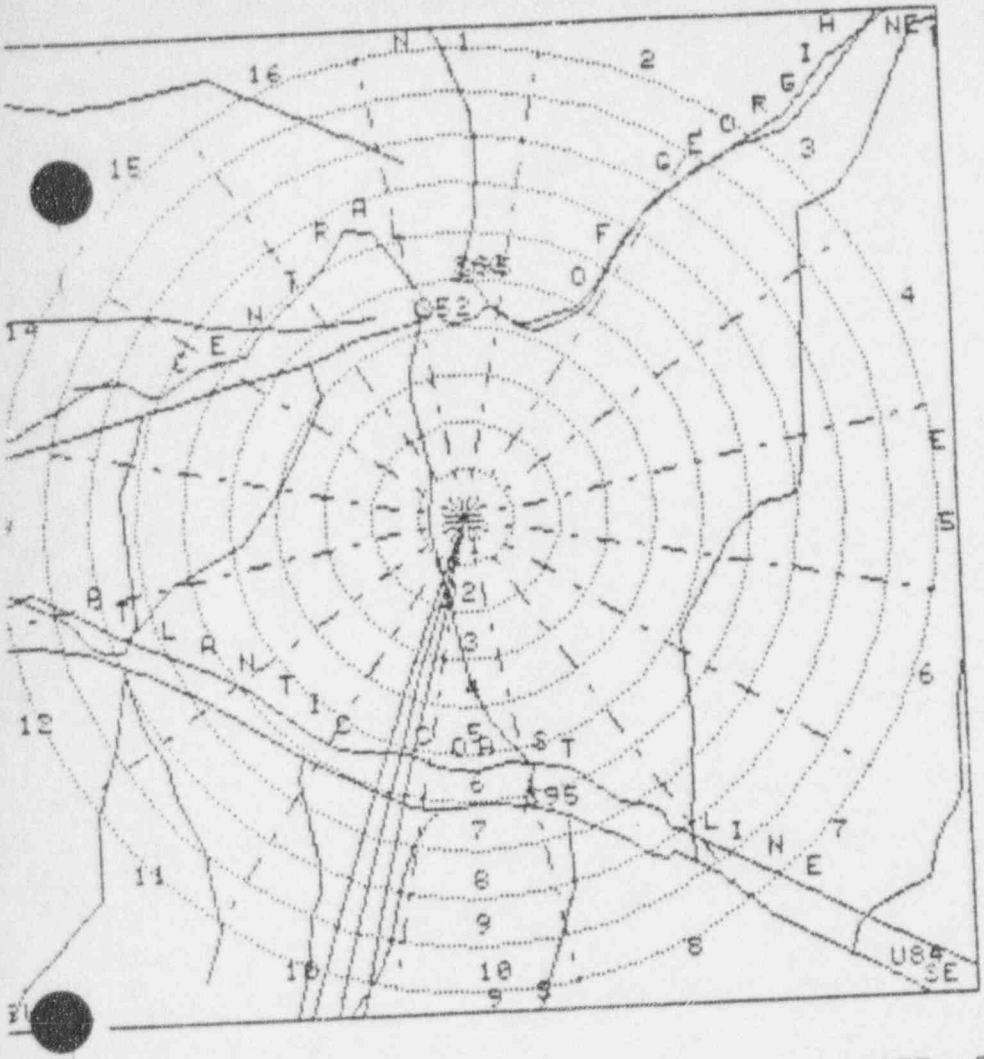
ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 10:18
STABILITY CLASS D

ATE: 83/01/14
EV: 6.9 MPH FROM 019 DEG

CURRENT PLUME INFORMATION AS OF 10:15 ON 83/01/14
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 14											
9E	1.7	199	9	10:15	2.55E+00	4.09E+00	4.09E+00	TH	176.	62.3	4.88E-06
9E	SB	199	9	10:15	3.16E+00	5.06E+00	5.06E+00	TH	90.8	0.0	6.04E-06
8E	3.5	199	9	10:15	1.54E+00	2.49E+00	2.49E+00	TH	320.	94.5	3.11E-06
7E	5.2	198	9	10:15	8.41E-01	1.36E+00	1.36E+00	TH	454.	119.	1.79E-06
6E	6.9	198	9	10:15	5.21E-01	8.52E-01	8.52E-01	TH	584.	141.	1.20E-06
5E	8.5	198	9	10:15	3.58E-01	5.90E-01	5.90E-01	TH	709.	159.	9.04E-07
4E	10.2	197	9	10:15	2.30E-01	3.82E-01	3.82E-01	TH	834.	177.	6.68E-07
3E	11.9	197	9	10:15	1.52E-01	2.54E-01	2.54E-01	TH	958.	193.	5.35E-07
2E	13.6	196	9	10:15	9.40E-02	1.57E-01	1.57E-01	TH	1083	208.	4.38E-07
1E	15.4	196	9	10:15	2.35E-02	3.97E-02	3.97E-02	TH	1206	222.	3.68E-07
1E	20.0	197	9	10:55	1.61E-02	2.73E-02	2.73E-02	TH	1532	0.0	2.53E-07
1E	30.0	197	9	12:21	9.05E-03	1.53E-02	1.53E-02	TH	2223	0.0	1.41E-07
1E	40.0	198	9	13:48	5.98E-03	1.01E-02	1.01E-02	TH	2903	0.0	9.37E-08
1E	50.0	198	9	15:15	4.33E-03	7.32E-03	7.32E-03	TH	3576	0.0	6.79E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 10:19
ELEV: 6.9 MPH FROM 019 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 10:15

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

ENTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 10:32
STABILITY CLASS D

TE: 83/01/14
EV: 6.6 MPH FROM 022 DEG

CURRENT PLUME INFORMATION AS OF 10:30 ON 83/01/14
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JLIAN DAY =			14								
10G	1.6	202	9	10:30	4.34E-15	3.15E-13	3.15E-13	TH	168.	61.1	1.05E-05
10C	SB	202	9	10:30	1.24E-14	9.03E-13	9.03E-13	TH	91.5	0.0	3.01E-05
9G	3.4	201	9	10:30	1.46E-15	1.06E-13	1.06E-13	TH	305.	92.1	3.64E-06
8G	5.1	200	9	10:30	7.78E-16	5.66E-14	5.66E-14	TH	443.	118.	1.97E-06
7G	6.8	199	9	10:30	4.98E-16	3.62E-14	3.62E-14	TH	575.	140.	1.29E-06
6G	8.5	199	9	10:30	3.52E-16	2.55E-14	2.55E-14	TH	702.	159.	9.39E-07
5G	10.2	198	9	10:30	2.64E-16	1.92E-14	1.92E-14	TH	827.	176.	7.26E-07
4G	11.9	198	9	10:30	2.03E-16	1.48E-14	1.48E-14	TH	949.	192.	5.75E-07
3G	13.6	197	9	10:30	1.61E-16	1.17E-14	1.17E-14	TH	1072	207.	4.70E-07
2G	15.3	197	9	10:30	1.29E-16	9.44E-15	9.44E-15	TH	1194	221.	3.91E-07
1G	17.0	197	9	10:30	1.06E-16	7.74E-15	7.74E-15	TH	1316	234.	3.32E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/14 TIME: 10:32
LEV: 6.6 MPH FROM 022 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 10:30 ON 83/01/14

PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
ULIAN DAY = 14											
10E	1.6	202	9	10:30	2.64E+00	4.44E+00	4.44E+00	TH	168.	60.1	5.18E-06
10E	SB	202	9	10:30	3.01E+00	5.07E+00	5.07E+00	TH	90.8	0.0	5.91E-06
9E	3.4	201	9	10:30	1.57E+00	2.67E+00	2.67E+00	TH	313.	93.1	3.20E-06
8E	5.1	200	9	10:30	8.43E-01	1.44E+00	1.44E+00	TH	449.	118.	1.80E-06
7E	6.8	199	9	10:30	5.33E-01	9.17E-01	9.17E-01	TH	580.	140.	1.20E-06
6E	8.5	199	9	10:30	3.68E-01	6.37E-01	6.37E-01	TH	706.	159.	9.02E-07
5E	10.2	198	9	10:30	2.53E-01	4.41E-01	4.41E-01	TH	830.	176.	6.79E-07
4E	11.9	198	9	10:30	1.76E-01	3.09E-01	3.09E-01	TH	953.	192.	5.43E-07
3E	13.6	197	9	10:30	1.19E-01	2.11E-01	2.11E-01	TH	1077	207.	4.46E-07
2E	15.3	197	9	10:30	7.52E-02	1.33E-01	1.33E-01	TH	1200	221.	3.73E-07
1E	17.0	197	9	10:30	1.91E-02	3.42E-02	3.42E-02	TH	1322	235.	3.19E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TE: 83/01/14 TIME: 10:33
EV: 6.6 MPH FROM 022 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 10:30 ON 83/01/14
ABBREVIATED PROJECTION

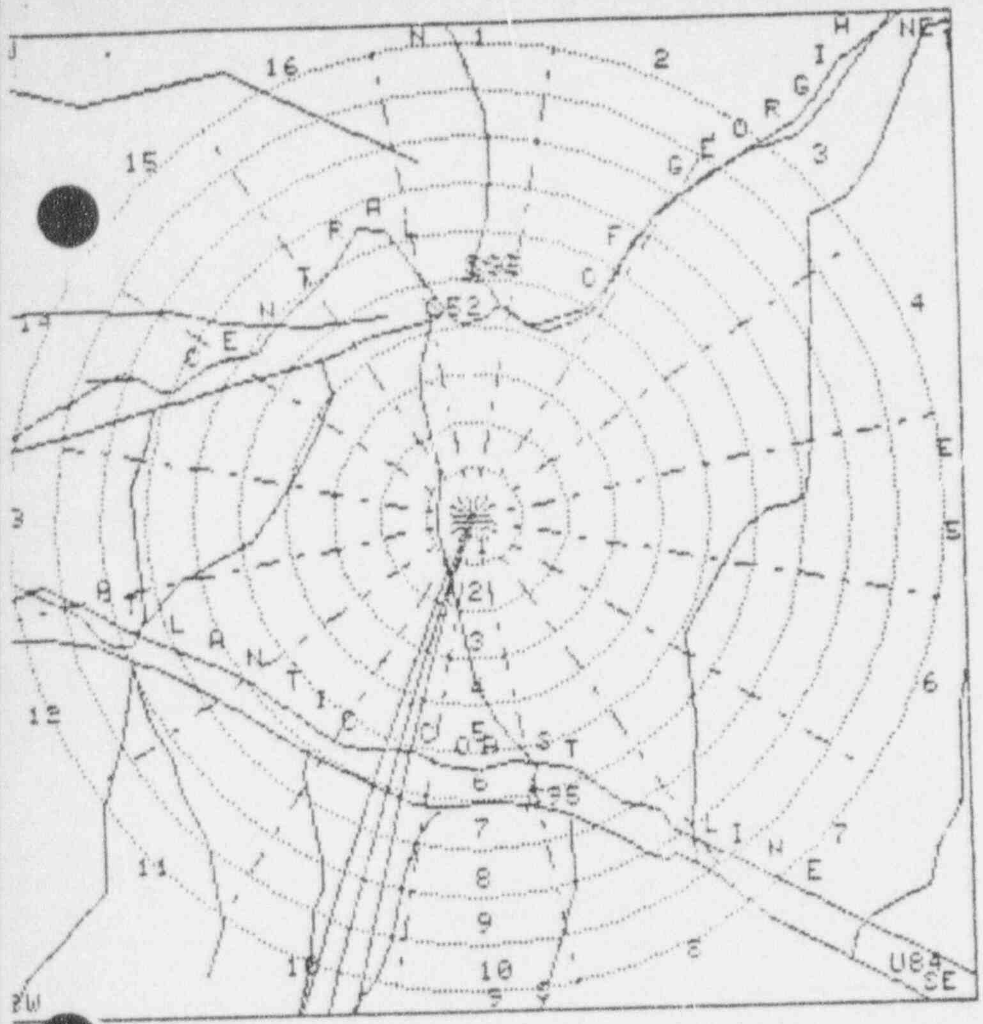
D	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JLIAN DAY =			14								
10G	1.6	202	9	10:30	4.34E-15	3.15E-13	3.15E-13	TH	168.	61.1	1.05E-05
10G	SB	202	9	10:30	1.24E-14	9.03E-13	9.03E-13	TH	91.5	0.0	3.01E-05
9G	3.4	201	9	10:30	1.46E-15	1.06E-13	1.06E-13	TH	305.	92.1	3.64E-06
8G	5.1	200	9	10:30	7.78E-16	5.66E-14	5.66E-14	TH	443.	118.	1.97E-06
7G	6.8	199	9	10:30	4.98E-16	3.62E-14	3.62E-14	TH	575.	140.	1.29E-06
6G	8.5	199	9	10:30	3.52E-16	2.55E-14	2.55E-14	TH	702.	159.	9.39E-07
5G	10.2	198	9	10:30	2.64E-16	1.92E-14	1.92E-14	TH	827.	176.	7.26E-07
4G	11.9	198	9	10:30	2.03E-16	1.48E-14	1.48E-14	TH	949.	192.	5.75E-07
3G	13.6	197	9	10:30	1.61E-16	1.17E-14	1.17E-14	TH	1072	207.	4.70E-07
2G	15.3	197	9	10:30	1.29E-16	9.44E-15	9.44E-15	TH	1194	221.	3.91E-07
1G	17.0	197	9	10:30	1.06E-16	7.74E-15	7.74E-15	TH	1316	234.	3.32E-07
1G	20.0	197	9	10:57	8.39E-17	6.10E-15	6.10E-15	TH	1527	0.0	2.62E-07
1G	30.0	199	9	12:29	4.63E-17	3.37E-15	3.37E-15	TH	2220	0.0	1.44E-07
1G	40.0	200	9	14: 1	3.04E-17	2.21E-15	2.21E-15	TH	2900	0.0	9.51E-08
1G	50.0	200	9	15:32	2.20E-17	1.60E-15	1.60E-15	TH	3574	0.0	6.86E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/14 TIME: 10:33
ELEV: 6.6 MPH FROM 022 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 10:30 ON 83/01/14
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 14											
10E	1.6	202	9	10:30	2.64E+00	4.44E+00	4.44E+00	TH	168.	60.1	5.19E-06
10E	SB	202	9	10:30	3.01E+00	5.07E+00	5.07E+00	TH	90.8	0.0	5.91E-06
9E	3.4	201	9	10:30	1.57E+00	2.67E+00	2.67E+00	TH	313.	93.1	3.20E-06
8E	5.1	200	9	10:30	8.43E-01	1.44E+00	1.44E+00	TH	449.	118.	1.80E-06
7E	6.8	199	9	10:30	5.33E-01	9.17E-01	9.17E-01	TH	580.	140.	1.20E-06
6E	8.5	199	9	10:30	3.68E-01	6.37E-01	6.37E-01	TH	706.	159.	9.02E-07
5E	10.2	198	9	10:30	2.53E-01	4.41E-01	4.41E-01	TH	830.	176.	6.79E-07
4E	11.9	198	9	10:30	1.76E-01	3.09E-01	3.09E-01	TH	953.	192.	5.43E-07
3E	13.6	197	9	10:30	1.19E-01	2.11E-01	2.11E-01	TH	1077	207.	4.46E-07
2E	15.3	197	9	10:30	7.52E-02	1.33E-01	1.33E-01	TH	1200	221.	3.73E-07
1E	17.0	197	9	10:30	1.91E-02	3.42E-02	3.42E-02	TH	1322	235.	3.19E-07
1E	20.0	197	9	10:57	1.51E-02	2.72E-02	2.72E-02	TH	1533	0.0	2.53E-07
1E	30.0	199	9	12:29	8.49E-03	1.52E-02	1.52E-02	TH	2226	0.0	1.41E-07
1E	40.0	200	9	14: 1	5.61E-03	1.00E-02	1.00E-02	TH	2907	0.0	9.35E-08
1E	50.0	200	9	15:32	4.06E-03	7.28E-03	7.28E-03	TH	3580	0.0	6.77E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 0:354
ELEV: 6.6 MPH FROM 022 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 10:30

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON
5. ALL ON	
6. ALL OFF	
7. EXIT	

JNTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 10:48
ELEV: 6.2 MPH FROM 025 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 10:45 ON 83/01/19

PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
11G	1.5	206	9	10:45	4.92E-15	3.74E-13	3.74E-13	TH	160.	58.8	1.22E-05
11C	SB	206	9	10:45	1.28E-14	9.78E-13	9.78E-13	TH	91.5	0.0	3.21E-05
10G	3.2	204	9	10:45	1.65E-15	1.26E-13	1.26E-13	TH	289.	88.8	4.22E-06
9C	4.9	202	9	10:45	8.23E-16	6.26E-14	6.26E-14	TH	420.	114.	2.14E-06
8G	6.6	201	9	10:45	5.13E-16	3.90E-14	3.90E-14	TH	553.	136.	1.36E-06
7G	8.3	200	9	10:45	3.58E-16	2.72E-14	2.72E-14	TH	682.	156.	9.78E-07
6G	10.0	200	9	10:45	2.66E-16	2.02E-14	2.02E-14	TH	808.	174.	7.46E-07
5C	11.7	199	9	10:45	2.07E-16	1.58E-14	1.58E-14	TH	932.	190.	5.98E-07
4G	13.4	199	9	10:45	1.64E-16	1.24E-14	1.24E-14	TH	1053	205.	4.86E-07
3C	15.1	198	9	10:45	1.32E-16	1.00E-14	1.00E-14	TH	1174	219.	4.05E-07
2G	16.8	198	9	10:45	1.08E-16	8.24E-15	8.24E-15	TH	1296	232.	3.43E-07
1G	18.5	197	9	10:45	9.01E-17	6.85E-15	6.85E-15	TH	1417	245.	2.95E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 10:48
STABILITY CLASS D
ELEV: 6.2 MPH FROM 025 DEG

CURRENT PLUME INFORMATION AS OF 10:45 ON 83/01/19

PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
11E	1.5	206	9	10:45	9.80E+01	2.89E+02	2.89E+02	TH	159.	57.8	5.48E-06
11E	SB	206	9	10:45	1.02E+02	3.02E+02	3.02E+02	TH	90.8	0.0	5.74E-06
10E	3.2	204	9	10:45	1.74E+00	3.11E+00	3.11E+00	TH	297.	89.8	3.64E-06
9E	4.9	202	9	10:45	8.86E-01	1.59E+00	1.59E+00	TH	435.	116.	1.91E-06
8E	6.6	201	9	10:45	5.44E-01	9.83E-01	9.83E-01	TH	567.	138.	1.23E-06
7E	8.3	200	9	10:45	3.82E-01	6.96E-01	6.96E-01	TH	695.	157.	9.20E-07
6E	10.0	200	9	10:45	2.63E-01	4.82E-01	4.82E-01	TH	820.	175.	6.86E-07
5E	11.7	199	9	10:45	1.95E-01	3.61E-01	3.61E-01	TH	942.	191.	5.58E-07
4E	13.4	199	9	10:45	1.39E-01	2.59E-01	2.59E-01	TH	1065	206.	4.57E-07
3E	15.1	198	9	10:45	9.68E-02	1.81E-01	1.81E-01	TH	1186	220.	3.83E-07
2E	16.8	198	9	10:45	6.18E-02	1.16E-01	1.16E-01	TH	1309	233.	3.26E-07
1E	18.5	197	9	10:45	1.59E-02	3.01E-02	3.01E-02	TH	1431	246.	2.82E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 10:49
STABILITY CLASS D
ELEV: 6.2 MPH FROM 025 DEG
CURRENT PLUME INFORMATION AS OF 10:45 ON 83/01/19
ABBREVIATED PROJECTION

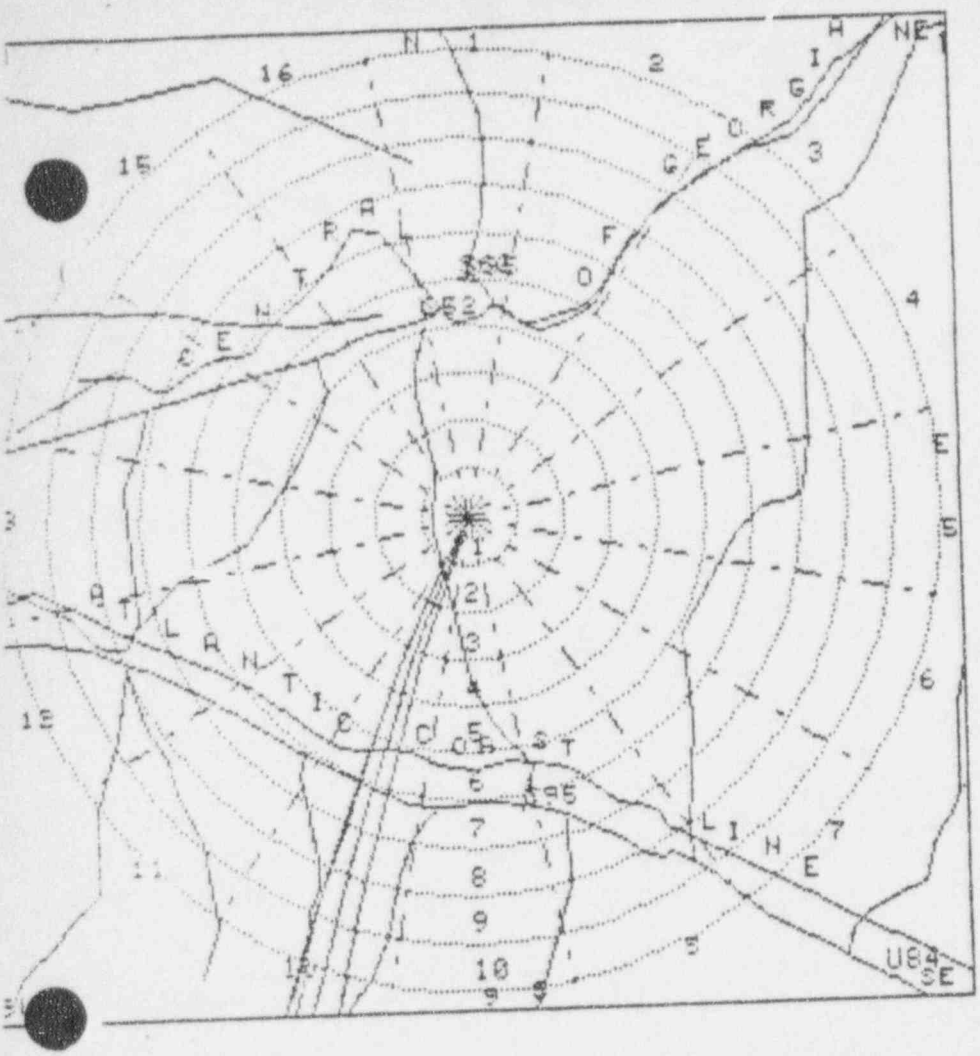
ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
11G	1.5	206	9	10:45	4.92E-15	3.74E-13	3.74E-13	TH	160.	58.8	1.22E-05
11G	SB	206	9	10:45	1.28E-14	9.78E-13	9.78E-13	TH	91.5	0.0	3.21E-05
10G	3.2	204	9	10:45	1.65E-15	1.26E-13	1.26E-13	TH	289.	88.8	4.22E-06
9G	4.9	202	9	10:45	8.23E-16	6.26E-14	6.26E-14	TH	420.	114.	2.14E-06
8G	6.6	201	9	10:45	5.13E-16	3.90E-14	3.90E-14	TH	553.	136.	1.36E-06
7G	8.3	200	9	10:45	3.58E-16	2.72E-14	2.72E-14	TH	682.	156.	9.78E-07
6G	10.0	200	9	10:45	2.66E-16	2.02E-14	2.02E-14	TH	808.	174.	7.46E-07
5G	11.7	199	9	10:45	2.07E-16	1.58E-14	1.58E-14	TH	932.	190.	5.98E-07
4G	13.4	199	9	10:45	1.64E-16	1.24E-14	1.24E-14	TH	1053	205.	4.86E-07
3G	15.1	198	9	10:45	1.32E-16	1.00E-14	1.00E-14	TH	1174	219.	4.05E-07
2G	16.8	198	9	10:45	1.08E-16	8.24E-15	8.24E-15	TH	1296	232.	3.43E-07
1G	18.5	197	9	10:45	9.01E-17	6.85E-15	6.85E-15	TH	1417	245.	2.95E-07
1G	20.0	198	9	10:59	8.04E-17	6.12E-15	6.12E-15	TH	1521	0.0	2.63E-07
1G	30.0	200	9	12:38	4.42E-17	3.36E-15	3.36E-15	TH	2216	0.0	1.45E-07
1G	40.0	202	9	14:15	2.90E-17	2.21E-15	2.21E-15	TH	2898	0.0	9.52E-08
1G	50.0	202	9	15:53	2.09E-17	1.59E-15	1.59E-15	TH	3572	0.0	6.87E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 10:49
ELEV: 6.2 MPH FROM 025 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 10:45 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
11E	1.5	206	9	10:45	9.80E+01	2.89E+02	2.89E+02	TH	159.	57.8	5.48E-06
11E	SB	206	9	10:45	1.02E+02	3.02E+02	3.02E+02	TH	90.8	0.0	5.74E-06
10E	3.2	204	9	10:45	1.74E+00	3.11E+00	3.11E+00	TH	297.	89.8	3.64E-06
9E	4.9	202	9	10:45	8.86E-01	1.59E+00	1.59E+00	TH	435.	116.	1.91E-06
8E	6.6	201	9	10:45	5.44E-01	9.83E-01	9.83E-01	TH	567.	138.	1.23E-06
7E	8.3	200	9	10:45	3.82E-01	6.96E-01	6.96E-01	TH	695.	157.	9.20E-07
6E	10.0	200	9	10:45	2.63E-01	4.82E-01	4.82E-01	TH	820.	175.	6.86E-07
5E	11.7	199	9	10:45	1.95E-01	3.61E-01	3.61E-01	TH	942.	191.	5.58E-07
4E	13.4	199	9	10:45	1.39E-01	2.59E-01	2.59E-01	TH	1065	206.	4.57E-07
3E	15.1	198	9	10:45	9.68E-02	1.81E-01	1.81E-01	TH	1186	220.	3.83E-07
2E	16.8	198	9	10:45	6.18E-02	1.16E-01	1.16E-01	TH	1309	233.	3.26E-07
1E	18.5	197	9	10:45	1.59E-02	3.01E-02	3.01E-02	TH	1431	246.	2.82E-07
1E	20.0	198	9	10:59	1.42E-02	2.70E-02	2.70E-02	TH	1535	0.0	2.52E-07
1E	30.0	200	9	12:38	7.96E-03	1.51E-02	1.51E-02	TH	2230	0.0	1.41E-07
1E	40.0	202	9	14:15	5.26E-03	9.98E-03	9.98E-03	TH	2912	0.0	9.32E-08
1E	50.0	202	9	15:53	3.81E-03	7.23E-03	7.23E-03	TH	3585	0.0	6.76E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 10:50
ELEV: 6.2 MPH FROM 025 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 10:45

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

ENTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 11:04
ELEV: 5.8 MPH FROM 028 DEG STABILITY CLASS D
CURRENT PLUME INFORMATION AS OF 11:00 ON 03/01/19
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
12G	1.4	209	9	11: 0	5.59E-15	4.44E-13	4.44E-13	TH	151.	56.6	1.43E-05
12C	SB	209	9	11: 0	1.33E-14	1.05E-12	1.05E-12	TH	91.5	0.0	3.42E-05
11C	3.0	207	9	11: 0	1.88E-15	1.49E-13	1.49E-13	TH	274.	85.5	4.94E-06
10C	4.6	205	9	11: 0	9.32E-16	7.40E-14	7.40E-14	TH	397.	109.	2.49E-06
9G	6.3	204	9	11: 0	5.44E-16	4.32E-14	4.32E-14	TH	524.	131.	1.48E-06
8C	8.1	202	9	11: 0	3.71E-16	2.94E-14	2.94E-14	TH	654.	152.	1.03E-06
7G	9.8	202	9	11: 0	2.73E-16	2.17E-14	2.17E-14	TH	782.	170.	7.82E-07
6C	11.4	201	9	11: 0	2.10E-16	1.67E-14	1.67E-14	TH	907.	186.	6.19E-07
5G	13.1	200	9	11: 0	1.68E-16	1.34E-14	1.34E-14	TH	1030	202.	5.09E-07
4C	14.8	200	9	11: 0	1.35E-16	1.07E-14	1.07E-14	TH	1150	216.	4.22E-07
3G	16.5	199	9	11: 0	1.11E-16	8.85E-15	8.85E-15	TH	1270	229.	3.57E-07
2C	18.2	199	9	11: 0	9.23E-17	7.33E-15	7.33E-15	TH	1391	242.	3.06E-07
1G	19.9	198	9	11: 0	7.75E-17	6.15E-15	6.15E-15	TH	1512	255.	2.66E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 11:05
STABILITY CLASS D

ATE: 83/01/19
LE 5.8 MPH FROM 028 DEG
CURRENT PLUME INFORMATION AS OF 11:00 ON 83/01/19
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
12E	1.4	209	9	11: 0	3.70E+02	1.14E+01	3.70E+02	WB	151.	55.6	5.69E-06
12E	SB	209	9	11: 0	3.59E+02	1.11E+01	3.59E+02	WB	90.8	0.0	5.51E-06
11E	3.0	207	9	11: 0	5.53E+01	1.72E+02	1.72E+02	TH	281.	86.5	3.28E-06
10E	4.6	205	9	11: 0	9.94E-01	1.87E+00	1.87E+00	TH	412.	112.	2.20E-06
9E	6.3	204	9	11: 0	5.38E-01	1.02E+00	1.02E+00	TH	546.	135.	1.23E-06
8E	8.1	202	9	11: 0	3.94E-01	7.54E-01	7.54E-01	TH	675.	154.	9.54E-07
7E	9.8	202	9	11: 0	2.86E-01	5.52E-01	5.52E-01	TH	801.	172.	7.33E-07
6E	11.4	201	9	11: 0	2.05E-01	3.98E-01	3.98E-01	TH	925.	188.	5.69E-07
5E	13.1	200	9	11: 0	1.56E-01	3.05E-01	3.05E-01	TH	1046	203.	4.74E-07
4E	14.8	200	9	11: 0	1.13E-01	2.23E-01	2.23E-01	TH	1168	218.	3.96E-07
3E	16.5	199	9	11: 0	8.01E-02	1.58E-01	1.58E-01	TH	1289	231.	3.37E-07
2E	18.2	199	9	11: 0	5.17E-02	1.03E-01	1.03E-01	TH	1410	244.	2.90E-07
1E	19.9	198	9	11: 0	1.34E-02	2.70E-02	2.70E-02	TH	1532	257.	2.53E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 11:05
ELEV: 5.8 MPH FROM 028 DEG STABILITY CLASS D
CURRENT PLUME INFORMATION AS OF 11:00 ON 83/01/19
ABBREVIATED PROJECTION

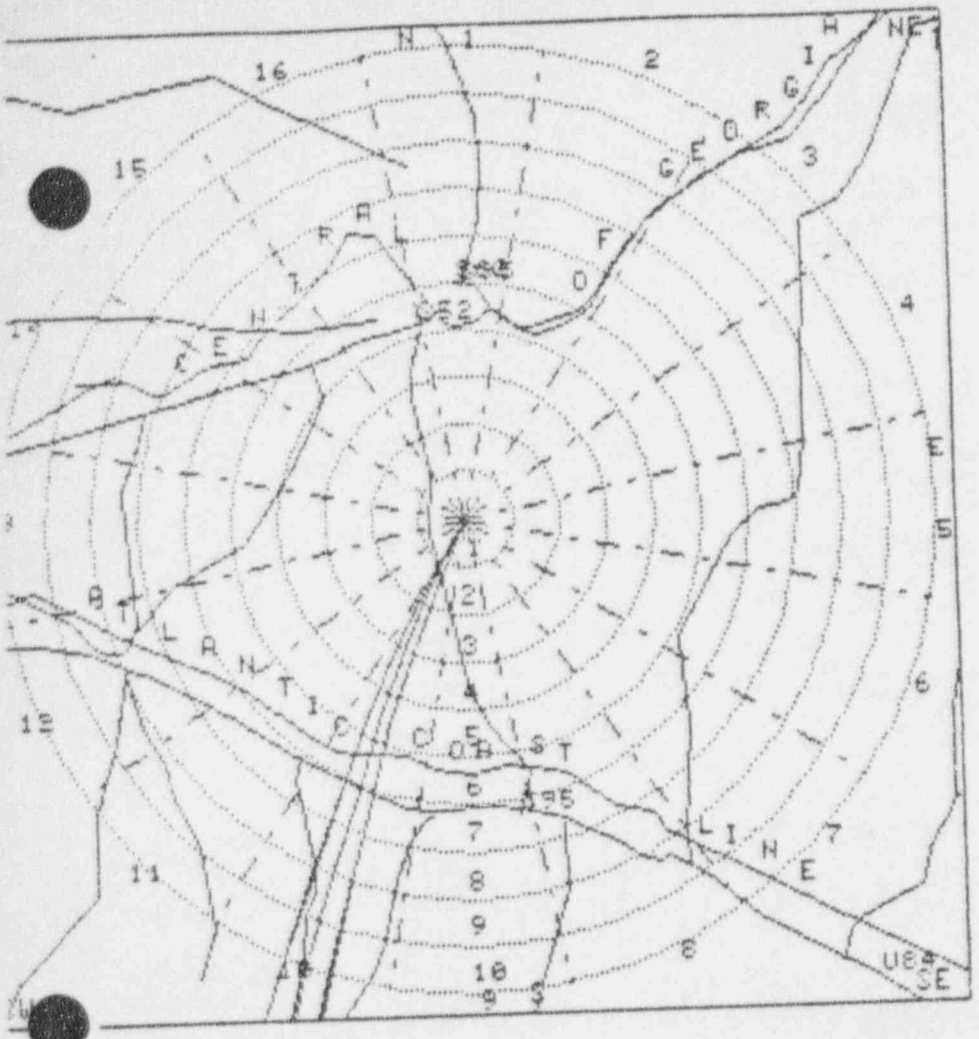
ID	MILE	DEC	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
12G	1.4	209	9	11: 0	5.59E-15	4.44E-13	4.44E-13	TH	151.	56.6	1.43E-05
12C	SB	209	9	11: 0	1.33E-14	1.05E-12	1.05E-12	TH	91.5	0.0	3.42E-05
11G	3.0	207	9	11: 0	1.88E-15	1.49E-13	1.49E-13	TH	274.	85.5	4.94E-06
10C	4.6	205	9	11: 0	9.32E-16	7.40E-14	7.40E-14	TH	397.	109.	2.49E-06
9G	6.3	204	9	11: 0	5.44E-16	4.32E-14	4.32E-14	TH	524.	131.	1.48E-06
8C	8.1	202	9	11: 0	3.71E-16	2.94E-14	2.94E-14	TH	654.	152.	1.03E-06
7G	9.8	202	9	11: 0	2.73E-16	2.17E-14	2.17E-14	TH	782.	170.	7.82E-07
6C	11.4	201	9	11: 0	2.10E-16	1.67E-14	1.67E-14	TH	907.	186.	6.19E-07
5G	13.1	200	9	11: 0	1.68E-16	1.34E-14	1.34E-14	TH	1030	202.	5.09E-07
4C	14.8	200	9	11: 0	1.35E-16	1.07E-14	1.07E-14	TH	1150	218.	4.22E-07
3G	16.5	199	9	11: 0	1.11E-16	8.85E-15	8.85E-15	TH	1270	229.	3.57E-07
2C	18.2	199	9	11: 0	9.23E-17	7.33E-15	7.33E-15	TH	1391	242.	3.06E-07
1G	19.9	198	9	11: 0	7.75E-17	6.15E-15	6.15E-15	TH	1512	255.	2.66E-07
1C	20.0	198	9	11: 1	7.72E-17	6.13E-15	6.13E-15	TH	1515	0.0	2.65E-07
1G	30.0	202	9	12:46	4.22E-17	3.35E-15	3.35E-15	TH	2215	0.0	1.45E-07
1C	40.0	202	9	14:30	2.77E-17	2.20E-15	2.20E-15	TH	2898	0.0	9.52E-08
1G	50.0	205	9	16:15	1.99E-17	1.58E-15	1.58E-15	TH	3574	0.0	6.86E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 11:05
STABILITY CLASS D

DATE: 83/01/19
WIND 5.8 MPH FROM 020 DEG
CURRENT PLUME INFORMATION AS OF 11:00 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
12E	1.4	209	9	11: 0	3.70E+02	1.14E+01	3.70E+02	WB	151.	55.6	5.69E-06
12E	SB	209	9	11: 0	3.59E+02	1.11E+01	3.59E+02	WB	90.8	0.0	5.51E-06
11E	3.0	207	9	11: 0	5.53E+01	1.72E+02	1.72E+02	TH	281.	86.5	3.28E-06
10E	4.6	205	9	11: 0	9.94E-01	1.87E+00	1.87E+00	TH	412.	112.	2.20E-06
9E	6.3	204	9	11: 0	5.38E-01	1.02E+00	1.02E+00	TH	546.	135.	1.23E-06
8E	8.1	202	9	11: 0	3.94E-01	7.54E-01	7.54E-01	TH	675.	154.	9.54E-07
7E	9.8	202	9	11: 0	2.86E-01	5.52E-01	5.52E-01	TH	801.	172.	7.33E-07
6E	11.4	201	9	11: 0	2.05E-01	3.98E-01	3.98E-01	TH	925.	188.	5.69E-07
5E	13.1	200	9	11: 0	1.56E-01	3.05E-01	3.05E-01	TH	1046	203.	4.74E-07
4E	14.8	200	9	11: 0	1.13E-01	2.23E-01	2.23E-01	TH	1168	218.	3.96E-07
3E	16.5	199	9	11: 0	8.01E-02	1.58E-01	1.58E-01	TH	1289	231.	3.37E-07
2E	18.2	199	9	11: 0	5.17E-02	1.03E-01	1.03E-01	TH	1410	244.	2.90E-07
1E	19.9	198	9	11: 0	1.34E-02	2.70E-02	2.70E-02	TH	1532	257.	2.53E-07
1E	20.0	198	9	11: 1	1.34E-02	2.69E-02	2.69E-02	TH	1536	0.0	2.52E-07
1E	30.0	202	9	12:46	7.48E-03	1.49E-02	1.49E-02	TH	2235	0.0	1.40E-07
1E	40.0	203	9	14.30	4.94E-03	9.90E-03	9.90E-03	TH	2918	0.0	9.29E-08
1E	50.0	205	9	16:15	3.58E-03	7.18E-03	7.18E-03	TH	3593	0.0	6.74E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 1:054
ELEV: 5.8 MPH FROM 028 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 11:00

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

JNTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 11:18
ELEV: 5.4 MPH FROM 032 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 11:15 ON 83/01/19

PRESENT LOCATION

ID	MILE	DEC	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
13G	1.3	212	9	11:15	6.49E-15	5.37E-13	5.37E-13	TH	142.	54.2	1.71E-05
13C	SB	212	9	11:15	1.39E-14	1.15E-12	1.15E-12	TH	91.5	0.0	3.67E-05
12C	2.8	210	9	11:15	2.17E-15	1.80E-13	1.80E-13	TH	257.	81.9	5.84E-06
11C	4.3	209	9	11:15	1.07E-15	8.86E-14	8.86E-14	TH	373.	105.	2.93E-06
10G	5.9	207	9	11:15	6.20E-16	5.14E-14	5.14E-14	TH	493.	126.	1.73E-06
9C	7.7	205	9	11:15	3.96E-16	3.28E-14	3.28E-14	TH	618.	146.	1.13E-06
8G	9.4	204	9	11:15	2.85E-16	2.36E-14	2.36E-14	TH	747.	165.	8.36E-07
7C	11.1	203	9	11:15	2.18E-16	1.80E-14	1.80E-14	TH	873.	182.	6.54E-07
6G	12.8	202	9	11:15	1.72E-16	1.43E-14	1.43E-14	TH	997.	198.	5.31E-07
5C	14.4	201	9	11:15	1.41E-16	1.16E-14	1.16E-14	TH	1119	212.	4.46E-07
4C	16.1	201	9	11:15	1.15E-16	9.53E-15	9.53E-15	TH	1238	226.	3.75E-07
3G	17.8	200	9	11:15	9.56E-17	7.91E-15	7.91E-15	TH	1358	239.	3.21E-07
2G	19.5	200	9	11:15	8.00E-17	6.62E-15	6.62E-15	TH	1478	251.	2.77E-07
1G	21.2	199	9	11:15	6.77E-17	5.60E-15	5.60E-15	TH	1598	263.	2.43E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

)ATE: 83/01/19 TIME: 11:18
LEV: 5.4 MPH FROM 032 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 11:15 ON 83/01/19

PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
13E	1.3	212	9	11:15	5.06E+02	1.63E+01	5.06E+02	WB	142.	53.2	5.81E-06
13E	SB	212	9	11:15	4.53E+02	1.46E+01	4.53E+02	WB	90.8	0.0	5.20E-06
12E	2.8	210	9	11:15	2.24E+02	7.34E+00	2.24E+02	WB	265.	83.0	3.66E-06
11E	4.3	209	9	11:15	4.08E+01	1.34E+02	1.34E+02	TH	389.	107.	2.57E-06
10E	5.9	207	9	11:15	6.14E-01	1.22E+00	1.22E+00	TH	516.	130.	1.44E-06
9E	7.7	205	9	11:15	4.01E-01	8.05E-01	8.05E-01	TH	647.	150.	9.77E-07
8E	9.4	204	9	11:15	2.98E-01	6.03E-01	6.03E-01	TH	775.	169.	7.66E-07
7E	11.1	203	9	11:15	2.17E-01	4.43E-01	4.43E-01	TH	899.	185.	5.90E-07
6E	12.8	202	9	11:15	1.66E-01	3.40E-01	3.40E-01	TH	1022	201.	4.87E-07
5E	14.4	201	9	11:15	1.28E-01	2.65E-01	2.65E-01	TH	1143	215.	4.13E-07
4E	16.1	201	9	11:15	9.49E-02	1.97E-01	1.97E-01	TH	1263	228.	3.50E-07
3E	17.8	200	9	11:15	6.76E-02	1.41E-01	1.41E-01	TH	1384	241.	3.01E-07
2E	19.5	200	9	11:15	4.41E-02	9.28E-02	9.28E-02	TH	1504	254.	2.62E-07
1E	21.2	199	9	11:15	1.14E-02	2.41E-02	2.41E-02	TH	1626	266.	2.28E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 11:18
STABILITY CLASS D

ATE: 83/01/19
LEV: 5.4 MPH FROM 032 DEG
CURRENT PLUME INFORMATION AS OF 11:15 ON 83/01/19
ABBREVIATED PROJECTION

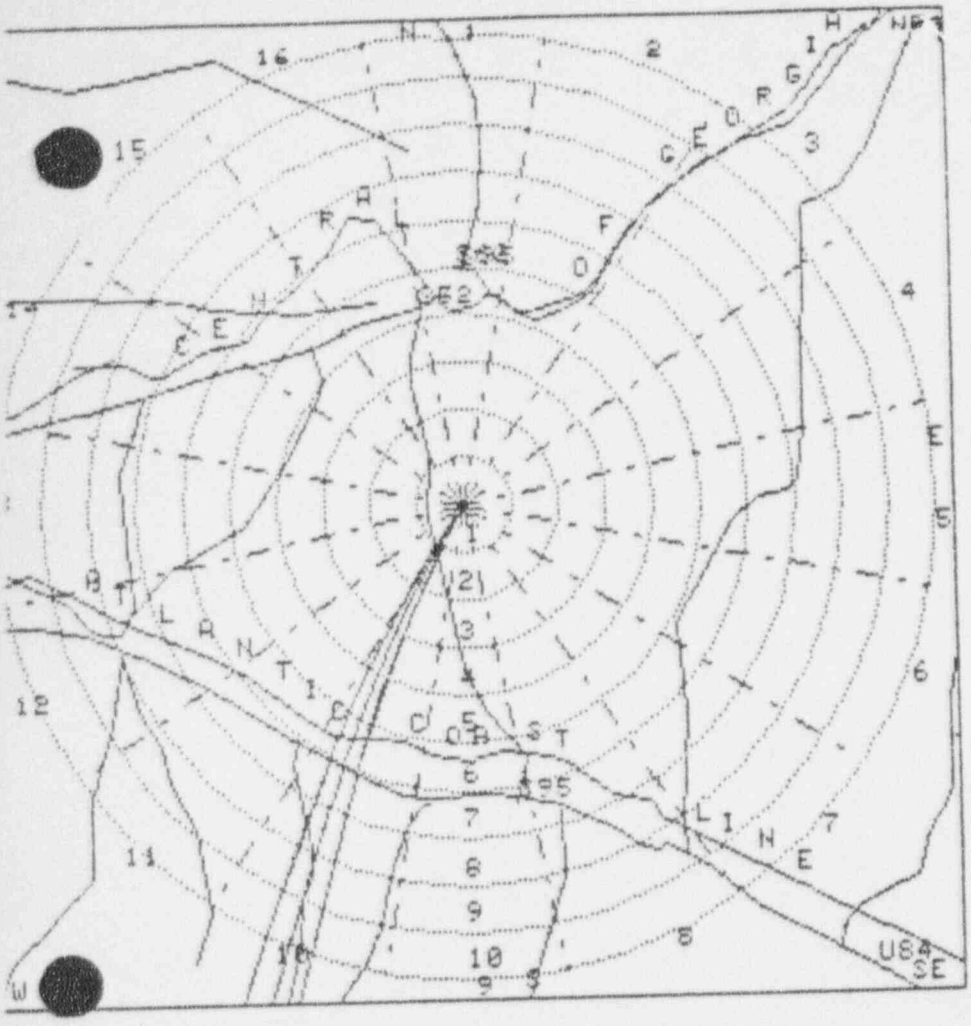
ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN 2.14*SIGMA DOSE RATE	ID	Y	Z	CHI/Q
JULIAN DAY = 19											
13G	1.3	212	9	11:15	6.49E-15	5.37E-13	5.37E-13	TH	142.	54.2	1.71E-05
13C	SB	212	9	11:15	1.39E-14	1.15E-12	1.15E-12	TH	91.5	0.0	3.67E-05
12G	2.8	210	9	11:15	2.17E-15	1.80E-13	1.80E-13	TH	257.	81.9	5.84E-06
11C	4.3	209	9	11:15	1.07E-15	8.86E-14	8.86E-14	TH	373.	105.	2.93E-06
10G	5.9	207	9	11:15	6.20E-16	5.14E-14	5.14E-14	TH	493.	126.	1.73E-06
9G	7.7	205	9	11:15	3.96E-16	3.28E-14	3.28E-14	TH	618.	146.	1.13E-06
8G	9.4	204	9	11:15	2.85E-16	2.36E-14	2.36E-14	TH	747.	165.	8.36E-07
7G	11.1	203	9	11:15	2.18E-16	1.80E-14	1.80E-14	TH	873.	182.	6.54E-07
6G	12.8	202	9	11:15	1.72E-16	1.43E-14	1.43E-14	TH	997.	198.	5.31E-07
5G	14.4	201	9	11:15	1.41E-16	1.16E-14	1.16E-14	TH	1119	212.	4.46E-07
4G	16.1	201	9	11:15	1.15E-16	9.53E-15	9.53E-15	TH	1238	226.	3.75E-07
3G	17.8	200	9	11:15	9.56E-17	7.91E-15	7.91E-15	TH	1358	239.	3.21E-07
2G	19.5	200	9	11:15	8.00E-17	6.62E-15	6.62E-15	TH	1478	251.	2.77E-07
1G	21.2	199	9	11:15	6.77E-17	5.60E-15	5.60E-15	TH	1598	263.	2.43E-07
1G	30.0	203	9	12:55	4.04E-17	3.34E-15	3.34E-15	TH	2213	0.0	1.45E-07
1G	40.0	205	9	14:47	2.64E-17	2.19E-15	2.19E-15	TH	2900	0.0	9.51E-08
1G	50.0	207	9	16:40	1.90E-17	1.57E-15	1.57E-15	TH	3577	0.0	6.86E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 11:18
ELEV: 5.4 MPH FROM 032 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 11:15 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
13E	1.3	212	9	11:15	5.06E+02	1.63E+01	5.06E+02	WB	142.	53.2	5.91E-06
13E	SB	212	9	11:15	4.53E+02	1.46E+01	4.53E+02	WB	90.8	0.0	5.20E-06
12E	2.8	210	9	11:15	2.24E+02	7.34E+00	2.24E+02	WB	265.	83.0	3.66E-06
11E	4.3	209	9	11:15	4.08E+01	1.34E+02	1.34E+02	TH	389.	107.	2.57E-06
10E	5.9	207	9	11:15	6.14E-01	1.22E+00	1.22E+00	TH	516.	130.	1.44E-06
9E	7.7	205	9	11:15	4.01E-01	8.05E-01	8.05E-01	TH	647.	150.	9.77E-07
8E	9.4	204	9	11:15	2.98E-01	6.03E-01	6.03E-01	TH	775.	169.	7.66E-07
7E	11.1	203	9	11:15	2.17E-01	4.43E-01	4.43E-01	TH	899.	185.	5.90E-07
6E	12.8	202	9	11:15	1.66E-01	3.40E-01	3.40E-01	TH	1022	201.	4.87E-07
5E	14.4	201	9	11:15	1.28E-01	2.65E-01	2.65E-01	TH	1143	215.	4.13E-07
4E	16.1	201	9	11:15	9.49E-02	1.97E-01	1.97E-01	TH	1263	228.	3.50E-07
3E	17.8	200	9	11:15	6.76E-02	1.41E-01	1.41E-01	TH	1384	241.	3.01E-07
2E	19.5	200	9	11:15	4.41E-02	9.28E-02	9.28E-02	TH	1504	254.	2.62E-07
1E	21.2	199	9	11:15	1.14E-02	2.41E-02	2.41E-02	TH	1626	266.	2.28E-07
1E	30.0	203	9	12:55	6.95E-03	1.47E-02	1.47E-02	TH	2240	0.0	1.38E-07
1E	40.0	205	9	14:47	4.60E-03	9.75E-03	9.75E-03	TH	2926	0.0	9.19E-08
1E	50.0	207	9	16:40	3.34E-03	7.08E-03	7.08E-03	TH	3603	0.0	6.67E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 11:20
ELEV: 5.4 MPH FROM 032 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 11:15

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

ENTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 11:37
ELEV: 5.5 MPH FROM 027 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 11:30 ON 83/01/19

PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
14G	1.4	208	9	11:30	6.00E-15	5.18E-13	5.18E-13	TH	145.	54.9	1.63E-05
14C	SB	208	9	11:30	1.32E-14	1.14E-12	1.14E-12	TH	91.5	0.0	3.60E-05
13G	4.1	211	9	11:30	2.21E-15	1.90E-13	1.90E-13	TH	262.	82.9	6.10E-06
12G	5.5	210	9	11:30	7.47E-16	6.44E-14	6.44E-14	TH	475.	123.	2.10E-06
11G	7.0	209	9	11:30	4.87E-16	4.20E-14	4.20E-14	TH	585.	141.	1.39E-06
10G	8.7	208	9	11:30	3.34E-16	2.88E-14	2.88E-14	TH	700.	158.	9.77E-07
9G	10.4	206	9	11:30	2.38E-16	2.05E-14	2.05E-14	TH	821.	175.	7.12E-07
8G	12.1	205	9	11:30	1.85E-16	1.60E-14	1.60E-14	TH	947.	192.	5.68E-07
7G	13.8	204	9	11:30	1.50E-16	1.29E-14	1.29E-14	TH	1071	207.	4.70E-07
6G	15.5	203	9	11:30	1.23E-16	1.06E-14	1.06E-14	TH	1193	221.	3.98E-07
5G	17.1	203	9	11:30	1.04E-16	8.98E-15	8.98E-15	TH	1313	234.	3.44E-07
4G	18.8	202	9	11:30	8.72E-17	7.52E-15	7.52E-15	TH	1432	247.	2.97E-07
3G	20.5	201	9	11:30	7.39E-17	6.38E-15	6.38E-15	TH	1550	259.	2.60E-07
2G	22.2	201	9	11:30	6.30E-17	5.43E-15	5.43E-15	TH	1669	270.	2.28E-07
1G	23.9	200	9	11:30	5.41E-17	4.67E-15	4.67E-15	TH	1789	281.	2.03E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 11:34
ELEV. 5.5 MPH FROM 027 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 11:30 ON 83/01/19
PRESENT LOCATION

ID	MILE	DEC	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
14E	1.4	208	9	11:30	5.45E+02	1.84E+01	5.45E+02	WB	144.	53.8	5.80E-06
14E	SB	208	9	11:30	4.98E+02	1.68E+01	4.98E+02	WB	90.8	0.0	5.30E-06
13E	4.1	211	9	11:30	2.64E+02	9.02E+00	2.64E+02	WB	368.	103.	3.22E-06
12E	5.5	210	9	11:30	1.05E+02	3.65E+00	1.05E+02	WB	480.	124.	1.82E-06
11E	7.0	209	9	11:30	1.86E+01	6.49E+01	6.49E+01	TH	597.	143.	1.24E-06
10E	8.7	208	9	11:30	3.51E-01	7.39E-01	7.39E-01	TH	720.	161.	8.76E-07
9E	10.4	206	9	11:30	2.38E-01	5.04E-01	5.04E-01	TH	847.	178.	6.13E-07
8E	12.1	205	9	11:30	1.90E-01	4.06E-01	4.06E-01	TH	972.	194.	5.18E-07
7E	13.8	204	9	11:30	1.51E-01	3.25E-01	3.25E-01	TH	1095	209.	4.34E-07
6E	15.5	203	9	11:30	1.19E-01	2.58E-01	2.58E-01	TH	1216	223.	3.71E-07
5E	17.1	203	9	11:30	9.52E-02	2.07E-01	2.07E-01	TH	1335	236.	3.24E-07
4E	18.8	202	9	11:30	7.18E-02	1.57E-01	1.57E-01	TH	1454	249.	2.81E-07
3E	20.5	201	9	11:30	5.14E-02	1.13E-01	1.13E-01	TH	1574	261.	2.43E-07
2E	22.2	201	9	11:30	3.41E-02	7.58E-02	7.58E-02	TH	1694	272.	2.15E-07
1E	23.9	200	9	11:30	9.09E-03	2.03E-02	2.03E-02	TH	1814	284.	1.92E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/19 TIME: 11:34
LEV: 5.5 MPH FROM 027 DEG STABILITY CLASS D

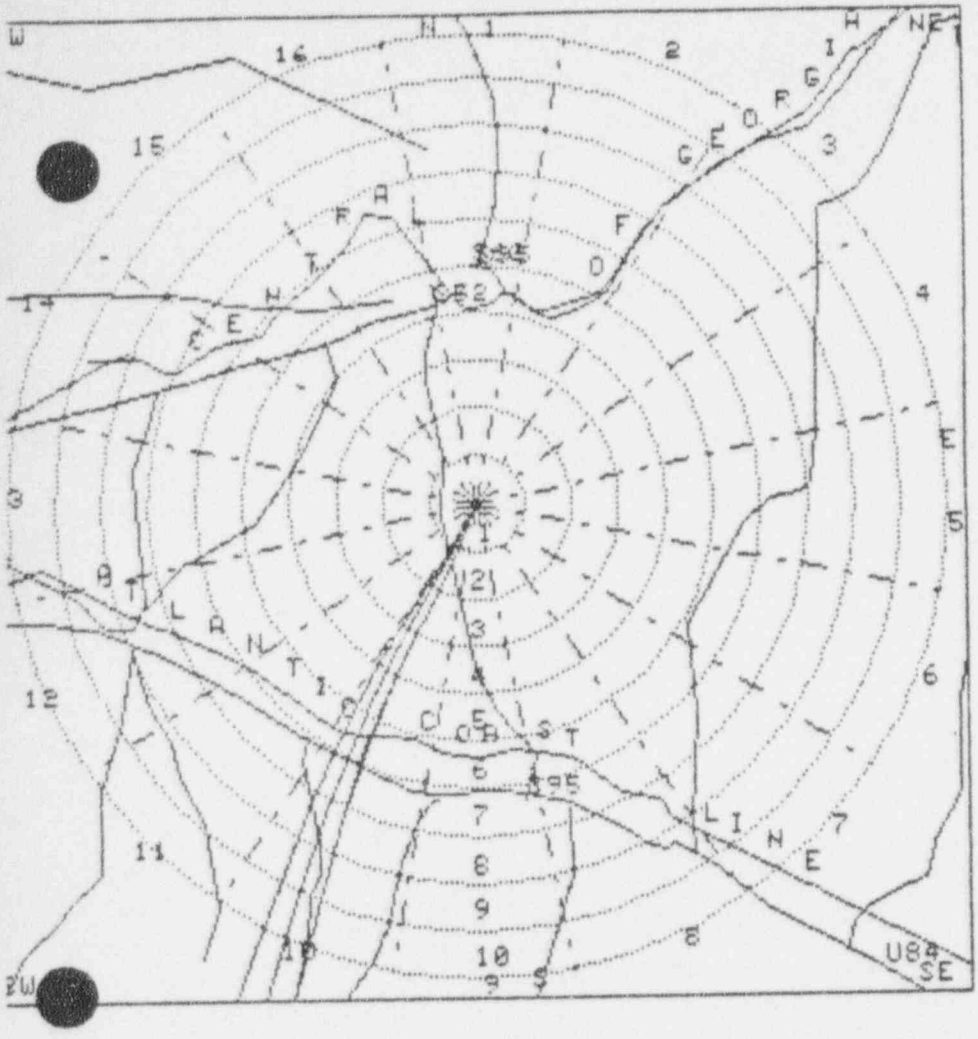
CURRENT PLUME INFORMATION AS OF 11:30 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
14G	1.4	208	9	11:30	6.00E-15	5.18E-13	5.18E-13	TH	145.	54.9	1.63E-05
14C	SB	208	9	11:30	1.32E-14	1.14E-12	1.14E-12	TH	91.5	0.0	3.60E-05
13G	4.1	211	9	11:30	2.21E-15	1.90E-13	1.90E-13	TH	262.	82.9	6.10E-06
12G	5.5	210	9	11:30	7.47E-16	6.44E-14	6.44E-14	TH	475.	123.	2.10E-06
11G	7.0	209	9	11:30	4.87E-16	4.20E-14	4.20E-14	TH	585.	141.	1.39E-06
10G	8.7	208	9	11:30	3.34E-16	2.88E-14	2.88E-14	TH	700.	158.	9.77E-07
9G	10.4	206	9	11:30	2.38E-16	2.05E-14	2.05E-14	TH	821.	175.	7.12E-07
8G	12.1	205	9	11:30	1.85E-16	1.60E-14	1.60E-14	TH	947.	192.	5.68E-07
7G	13.8	204	9	11:30	1.50E-16	1.29E-14	1.29E-14	TH	1071	207.	4.70E-07
6G	15.5	203	9	11:30	1.23E-16	1.06E-14	1.06E-14	TH	1193	221.	3.98E-07
5G	17.1	203	9	11:30	1.04E-16	8.98E-15	8.98E-15	TH	1313	234.	3.44E-07
4G	18.8	202	9	11:30	8.72E-17	7.52E-15	7.52E-15	TH	1432	247.	2.97E-07
3G	20.5	201	9	11:30	7.39E-17	6.38E-15	6.38E-15	TH	1550	259.	2.60E-07
2G	22.2	201	9	11:30	6.30E-17	5.43E-15	5.43E-15	TH	1669	270.	2.28E-07
1G	23.9	200	9	11:30	5.41E-17	4.67E-15	4.67E-15	TH	1789	281.	2.03E-07
1G	30.0	202	9	12:37	3.87E-17	3.34E-15	3.34E-15	TH	2210	0.0	1.45E-07
1G	40.0	203	9	14:27	2.53E-17	2.18E-15	2.18E-15	TH	2893	0.0	9.54E-08
1G	50.0	204	9	16:17	1.83E-17	1.57E-15	1.57E-15	TH	3568	0.0	6.88E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 11:34
ELEV: 5.5 MPH FROM 027 DEG STABILITY CLASS D
CURRENT PLUME INFORMATION AS OF 11:30 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
14E	1.4	208	9	11:30	5.45E+02	1.84E+01	5.45E+02	WB	144.	53.8	5.80E-06
14E	SB	208	9	11:30	4.98E+02	1.68E+01	4.98E+02	WB	90.0	0.0	5.30E-06
13E	4.1	211	9	11:30	2.64E+02	9.02E+00	2.64E+02	WB	368.	103.	3.22E-06
12E	5.5	210	9	11:30	1.05E+02	3.65E+00	1.05E+02	WB	480.	124.	1.82E-06
11E	7.0	209	9	11:30	1.86E+01	6.49E+01	6.49E+01	TH	597.	143.	1.24E-06
10E	8.7	208	9	11:30	3.51E-01	7.39E-01	7.39E-01	TH	720.	161.	8.76E-07
9E	10.4	206	9	11:30	2.38E-01	5.04E-01	5.04E-01	TH	847.	178.	6.13E-07
8E	12.1	205	9	11:30	1.90E-01	4.06E-01	4.06E-01	TH	972.	194.	5.18E-07
7E	13.8	204	9	11:30	1.51E-01	3.25E-01	3.25E-01	TH	1095	209.	4.34E-07
6E	15.5	203	9	11:30	1.19E-01	2.58E-01	2.58E-01	TH	1216	223.	3.71E-07
5E	17.1	203	9	11:30	9.52E-02	2.07E-01	2.07E-01	TH	1335	236.	3.24E-07
4E	18.8	202	9	11:30	7.18E-02	1.57E-01	1.57E-01	TH	1454	249.	2.81E-07
3E	20.5	201	9	11:30	5.14E-02	1.13E-01	1.13E-01	TH	1574	261.	2.43E-07
2E	22.2	201	9	11:30	3.41E-02	7.58E-02	7.58E-02	TH	1694	272.	2.15E-07
1E	23.9	200	9	11:30	9.09E-03	2.03E-02	2.03E-02	TH	1814	284.	1.92E-07
1E	30.0	202	9	12:37	6.58E-03	1.47E-02	1.47E-02	TH	2235	0.0	1.39E-07
1E	40.0	203	9	14:27	4.36E-03	9.76E-03	9.76E-03	TH	2918	0.0	9.23E-08
1E	50.0	204	9	16:17	3.17E-03	7.08E-03	7.08E-03	TH	3592	0.0	6.70E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 11:35
ELEV: 5.5 MPH FROM 027 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 11:30

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

ENTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 11:49
ELEV: 5.6 MPH FROM 023 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 11:45 ON 83/01/19

PRESENT LOCATION

ID	MILE	DEC	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
15G	1.4	204	9	11:45	5.56E-15	4.99E-13	4.99E-13	TH	147.	55.6	1.55E-05
15C	SB	204	9	11:45	1.26E-14	1.13E-12	1.13E-12	TH	91.5	0.0	3.53E-05
14G	2.8	206	9	11:45	2.05E-15	1.83E-13	1.83E-13	TH	266.	83.9	5.80E-06
13C	5.4	209	9	11:45	1.15E-15	1.03E-13	1.03E-13	TH	377.	106.	3.31E-06
12G	6.9	209	9	11:45	5.09E-16	4.56E-14	4.56E-14	TH	583.	141.	1.49E-06
11G	8.4	208	9	11:45	3.54E-16	3.18E-14	3.18E-14	TH	691.	157.	1.06E-06
10G	10.0	207	9	11:45	2.54E-16	2.28E-14	2.28E-14	TH	805.	173.	7.77E-07
9G	11.8	206	9	11:45	1.87E-16	1.68E-14	1.68E-14	TH	925.	189.	5.86E-07
8G	13.5	205	9	11:45	1.50E-16	1.35E-14	1.35E-14	TH	1050	204.	4.81E-07
7G	15.2	204	9	11:45	1.24E-16	1.11E-14	1.11E-14	TH	1173	219.	4.06E-07
6G	16.8	203	9	11:45	1.03E-16	9.32E-15	9.32E-15	TH	1294	232.	3.49E-07
5G	18.5	203	9	11:45	8.86E-17	7.95E-15	7.95E-15	TH	1414	245.	3.06E-07
4G	20.2	202	9	11:45	7.50E-17	6.73E-15	6.73E-15	TH	1532	257.	2.66E-07
3C	21.9	202	9	11:45	6.41E-17	5.75E-15	5.75E-15	TH	1650	268.	2.35E-07
2G	23.6	201	9	11:45	5.50E-17	4.93E-15	4.93E-15	TH	1768	280.	2.08E-07
1G	25.3	200	9	11:45	4.75E-17	4.27E-15	4.27E-15	TH	1887	290.	1.87E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 11:49
ELEV: 5.6 MPH FROM 023 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 11:45 ON 83/01/19
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
15E	1.4	204	9	11:45	5.43E+02	1.91E+01	5.43E+02	WB	147.	54.5	5.77E-06
15C	SB	204	9	11:45	5.07E+02	1.78E+01	5.07E+02	WB	90.8	0.0	5.38E-06
14E	2.8	206	9	11:45	3.37E+02	1.20E+01	3.37E+02	WB	264.	82.7	3.80E-06
13E	5.4	209	9	11:45	1.53E+02	5.53E+00	1.53E+02	WB	477.	123.	1.98E-06
12E	6.9	209	9	11:45	7.27E+01	2.65E+00	7.27E+01	WB	587.	141.	1.33E-06
11E	8.4	208	9	11:45	1.37E+01	5.03E+01	5.03E+01	TH	702.	158.	9.70E-07
10E	10.0	207	9	11:45	2.57E-01	5.70E-01	5.70E-01	TH	823.	175.	6.78E-07
9E	11.8	206	9	11:45	1.89E-01	4.23E-01	4.23E-01	TH	949.	192.	5.17E-07
8E	13.5	205	9	11:45	1.54E-01	3.47E-01	3.47E-01	TH	1073	207.	4.44E-07
7E	15.2	204	9	11:45	1.24E-01	2.82E-01	2.82E-01	TH	1195	221.	3.79E-07
6E	16.8	203	9	11:45	9.97E-02	2.27E-01	2.27E-01	TH	1315	234.	3.28E-07
5E	18.5	203	9	11:45	8.04E-02	1.84E-01	1.84E-01	TH	1433	246.	2.90E-07
4E	20.2	202	9	11:45	6.04E-02	1.39E-01	1.39E-01	TH	1552	259.	2.50E-07
3E	21.9	202	9	11:45	4.42E-02	1.03E-01	1.03E-01	TH	1671	270.	2.21E-07
2E	23.6	201	9	11:45	2.95E-02	6.93E-02	6.93E-02	TH	1791	281.	1.97E-07
1E	25.3	200	9	11:45	7.92E-03	1.86E-02	1.86E-02	TH	1911	292.	1.77E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 11:50
STABILITY CLASS D

DATE: 83/01/19
LEV: 5.6 MPH FROM 023 DEG

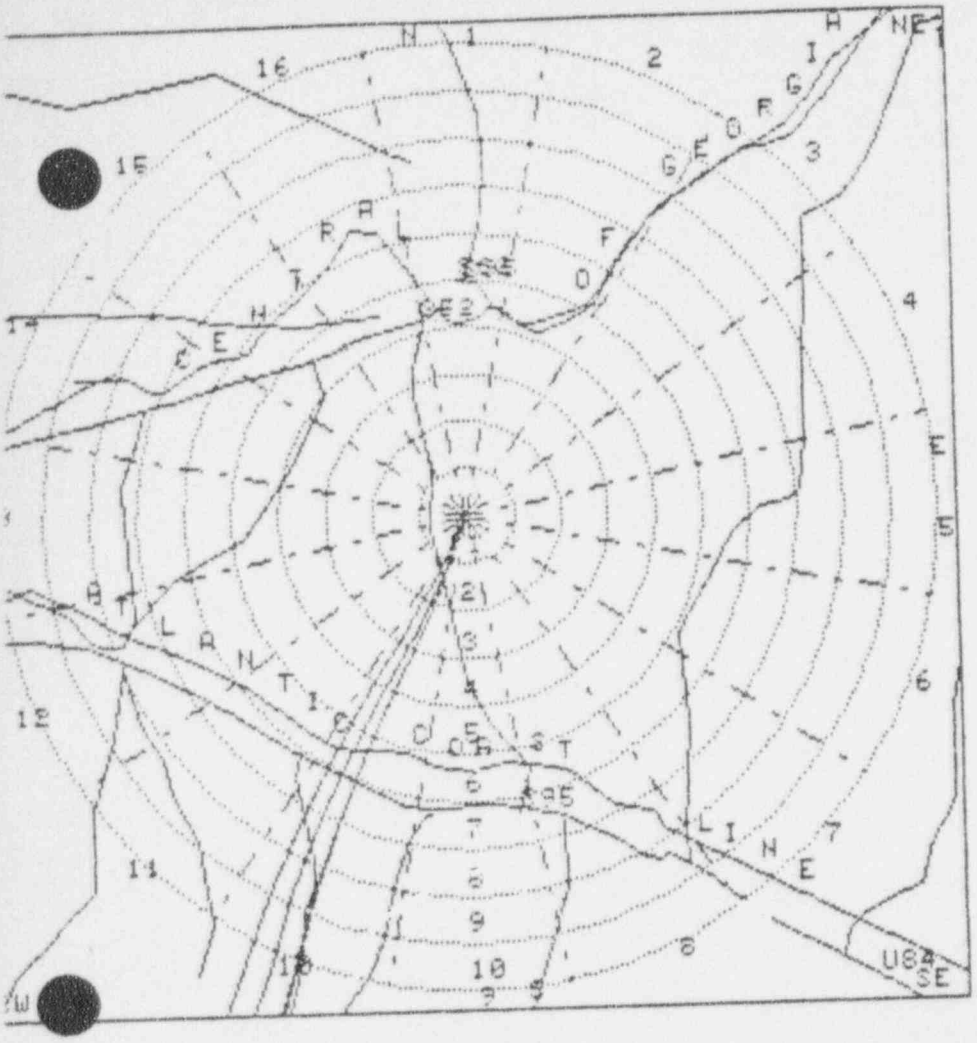
CURRENT PLUME INFORMATION AS OF 11:45 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.11%SIGMA Y	2.11%SIGMA Z	CHI/Q
JULIAN DAY = 19											
1SG	1.4	204	9	11:45	5.56E-15	4.99E-13	4.99E-13	TH	147.	55.6	1.55E-05
1SG	SB	204	9	11:45	1.26E-14	1.13E-12	1.13E-12	TH	91.5	0.0	3.53E-05
1NG	2.8	206	9	11:45	2.05E-15	1.83E-13	1.83E-13	TH	266.	83.9	5.80E-06
13G	5.4	209	9	11:45	1.15E-15	1.03E-13	1.03E-13	TH	377.	106.	3.31E-06
12G	6.9	209	9	11:45	5.09E-16	4.56E-14	4.56E-14	TH	583.	141.	1.49E-06
11G	8.4	208	9	11:45	3.54E-16	3.18E-14	3.18E-14	TH	691.	157.	1.06E-06
10G	10.0	207	9	11:45	2.54E-16	2.28E-14	2.28E-14	TH	805.	173.	7.77E-07
9G	11.8	206	9	11:45	1.87E-16	1.68E-14	1.68E-14	TH	925.	189.	5.86E-07
8G	13.5	205	9	11:45	1.50E-16	1.35E-14	1.35E-14	TH	1050	204.	4.81E-07
7G	15.2	204	9	11:45	1.24E-16	1.11E-14	1.11E-14	TH	1173	219.	4.06E-07
6G	16.8	203	9	11:45	1.03E-16	9.32E-15	9.32E-15	TH	1294	232.	3.49E-07
5G	18.5	203	9	11:45	8.86E-17	7.95E-15	7.95E-15	TH	1414	245.	3.06E-07
4G	20.2	202	9	11:45	7.50E-17	6.73E-15	6.73E-15	TH	1532	257.	2.66E-07
3G	21.9	202	9	11:45	6.41E-17	5.75E-15	5.75E-15	TH	1650	268.	2.35E-07
2G	23.6	201	9	11:45	5.50E-17	4.93E-15	4.93E-15	TH	1768	280.	2.08E-07
1G	25.3	200	9	11:45	4.75E-17	4.27E-15	4.27E-15	TH	1887	290.	1.87E-07
1G	30.0	201	9	12:35	3.71E-17	3.33E-15	3.33E-15	TH	2209	0.0	1.45E-07
1G	40.0	202	9	14:23	2.43E-17	2.18E-15	2.18E-15	TH	2890	0.0	9.56E-08
1G	50.0	202	9	16:10	1.75E-17	1.57E-15	1.57E-15	TH	3562	0.0	6.90E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/19 TIME: 11:50
LEV: 5.6 MPH FROM 023 DEG STABILITY CLASS D
CURRENT PLUME INFORMATION AS OF 11:45 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
ULIAN DAY =		19									
15	1.4	204	9	11:45	5.43E+02	1.91E+01	5.43E+02	WB	147.	54.5	5.77E-06
15E	SB	204	9	11:45	5.07E+02	1.78E+01	5.07E+02	WB	90.8	0.0	5.38E-06
14E	2.8	206	9	11:45	3.37E+02	1.20E+01	3.37E+02	WB	264.	82.7	3.80E-06
13E	5.4	209	9	11:45	1.53E+02	5.53E+00	1.53E+02	WB	477.	123.	1.98E-06
12E	6.9	209	9	11:45	7.27E+01	2.65E+00	7.27E+01	WB	587.	141.	1.33E-06
11E	8.4	208	9	11:45	1.37E+01	5.03E+01	5.03E+01	TH	702.	158.	9.70E-07
10E	10.0	207	9	11:45	2.57E-01	5.70E-01	5.70E-01	TH	823.	175.	6.78E-07
9E	11.8	206	9	11:45	1.89E-01	4.23E-01	4.23E-01	TH	949.	192.	5.17E-07
8E	13.5	205	9	11:45	1.54E-01	3.47E-01	3.47E-01	TH	1073	207.	4.44E-07
7E	15.2	204	9	11:45	1.24E-01	2.82E-01	2.82E-01	TH	1195	221.	3.79E-07
6E	16.8	203	9	11:45	9.97E-02	2.27E-01	2.27E-01	TH	1315	234.	3.28E-07
5E	18.5	203	9	11:45	8.04E-02	1.84E-01	1.84E-01	TH	1433	246.	2.90E-07
4E	20.2	202	9	11:45	6.04E-02	1.39E-01	1.39E-01	TH	1552	259.	2.50E-07
3E	21.9	202	9	11:45	4.42E-02	1.03E-01	1.03E-01	TH	1671	270.	2.21E-07
2E	23.6	201	9	11:45	2.95E-02	6.93E-02	6.93E-02	TH	1791	281.	1.97E-07
1E	25.3	200	9	11:45	7.92E-03	1.86E-02	1.86E-02	TH	1911	292.	1.77E-07
1E	30.0	201	9	12:35	6.23E-03	1.46E-02	1.46E-02	TH	2232	0.0	1.39E-07
1E	40.0	202	9	14:23	4.13E-03	9.74E-03	9.74E-03	TH	2912	0.0	9.26E-08
1E	50.0	202	9	16:10	3.00E-03	7.08E-03	7.08E-03	TH	3585	0.0	6.72E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 11:50
ELEV: 5.6 MPH FROM 023 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 11:45

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON
5. ALL ON	
6. ALL OFF	
7. EXIT	

ENTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/19 TIME: 12:03
EV: 5.7 MPH FROM 019 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 12:00 ON 83/01/19
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
16G	1.4	199	9	12: 0	5.16E-15	4.81E-13	4.81E-13	TH	150.	56.2	1.47E-05
16C	SB	199	9	12: 0	1.21E-14	1.12E-12	1.12E-12	TH	91.5	0.0	3.46E-05
15G	2.8	201	9	12: 0	1.90E-15	1.77E-13	1.77E-13	TH	271.	84.9	5.52E-06
14G	4.2	203	9	12: 0	1.06E-15	9.95E-14	9.95E-14	TH	383.	107.	3.15E-06
13G	6.9	207	9	12: 0	7.13E-16	6.64E-14	6.64E-14	TH	490.	126.	2.14E-06
12G	8.3	207	9	12: 0	3.68E-16	3.43E-14	3.43E-14	TH	692.	157.	1.12E-06
11G	9.8	207	9	12: 0	2.68E-16	2.50E-14	2.50E-14	TH	799.	172.	8.38E-07
10G	11.5	206	9	12: 0	1.99E-16	1.85E-14	1.85E-14	TH	911.	187.	6.35E-07
9G	13.2	205	9	12: 0	1.51E-16	1.41E-14	1.41E-14	TH	1030	202.	4.93E-07
8G	14.9	204	9	12: 0	1.23E-16	1.15E-14	1.15E-14	TH	1154	216.	4.13E-07
7G	16.6	204	9	12: 0	1.03E-16	9.67E-15	9.67E-15	TH	1277	230.	3.54E-07
6G	18.3	203	9	12: 0	8.81E-17	8.21E-15	8.21E-15	TH	1397	243.	3.09E-07
5G	19.9	203	9	12: 0	7.60E-17	7.08E-15	7.08E-15	TH	1516	255.	2.73E-07
4G	21.6	202	9	12: 0	6.48E-17	6.05E-15	6.05E-15	TH	1633	267.	2.40E-07
3G	23.3	201	9	12: 0	5.59E-17	5.21E-15	5.21E-15	TH	1751	278.	2.14E-07
2G	25.0	201	9	12: 0	4.83E-17	4.50E-15	4.50E-15	TH	1869	289.	1.91E-07
1G	26.7	200	9	12: 0	4.20E-17	3.91E-15	3.91E-15	TH	1988	299.	1.72E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 12:03
ELEV: 5.7 MPH FROM 019 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 12:00 ON 83/01/19

PRESENT LOCATION

ID	MILE	DEC	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
16E	1.4	199	9	12: 0	5.21E+02	1.91E+01	5.21E+02	WB	149.	55.2	5.72E-06
16E	SB	199	9	12: 0	4.98E+02	1.82E+01	4.98E+02	WB	90.8	0.0	5.46E-06
15E	2.8	201	9	12: 0	3.28E+02	1.21E+01	3.28E+02	WB	268.	83.7	3.68E-06
14E	4.2	203	9	12: 0	2.52E+02	9.48E+00	2.52E+02	WB	379.	105.	3.01E-06
13E	6.9	207	9	12: 0	1.05E+02	3.99E+00	1.05E+02	WB	585.	141.	1.43E-06
12E	8.3	207	9	12: 0	5.43E+01	2.08E+00	5.43E+01	WB	693.	157.	1.05E-06
11E	9.8	207	9	12: 0	1.04E+01	4.03E+01	4.03E+01	TH	807.	173.	7.81E-07
10E	11.5	206	9	12: 0	2.03E-01	4.74E-01	4.74E-01	TH	926.	189.	5.67E-07
9E	13.2	205	9	12: 0	1.53E-01	3.60E-01	3.60E-01	TH	1052	204.	4.42E-07
8E	14.9	204	9	12: 0	1.26E-01	3.00E-01	3.00E-01	TH	1175	219.	3.86E-07
7E	16.6	204	9	12: 0	1.03E-01	2.47E-01	2.47E-01	TH	1296	232.	3.34E-07
6E	18.3	203	9	12: 0	8.40E-02	2.02E-01	2.02E-01	TH	1416	245.	2.93E-07
5E	19.9	203	9	12: 0	6.84E-02	1.65E-01	1.65E-01	TH	1533	257.	2.61E-07
4E	21.6	202	9	12: 0	5.18E-02	1.26E-01	1.26E-01	TH	1652	268.	2.27E-07
3E	23.3	201	9	12: 0	3.82E-02	9.38E-02	9.38E-02	TH	1770	279.	2.03E-07
2E	25.0	201	9	12: 0	2.57E-02	6.35E-02	6.35E-02	TH	1889	290.	1.81E-07
1E	26.7	200	9	12: 0	6.93E-03	1.72E-02	1.72E-02	TH	2009	301.	1.64E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

ATE: 83/01/19 TIME: 12:03
LEV: 5.7 MPH FROM 019 DEG STABILITY CLASS D

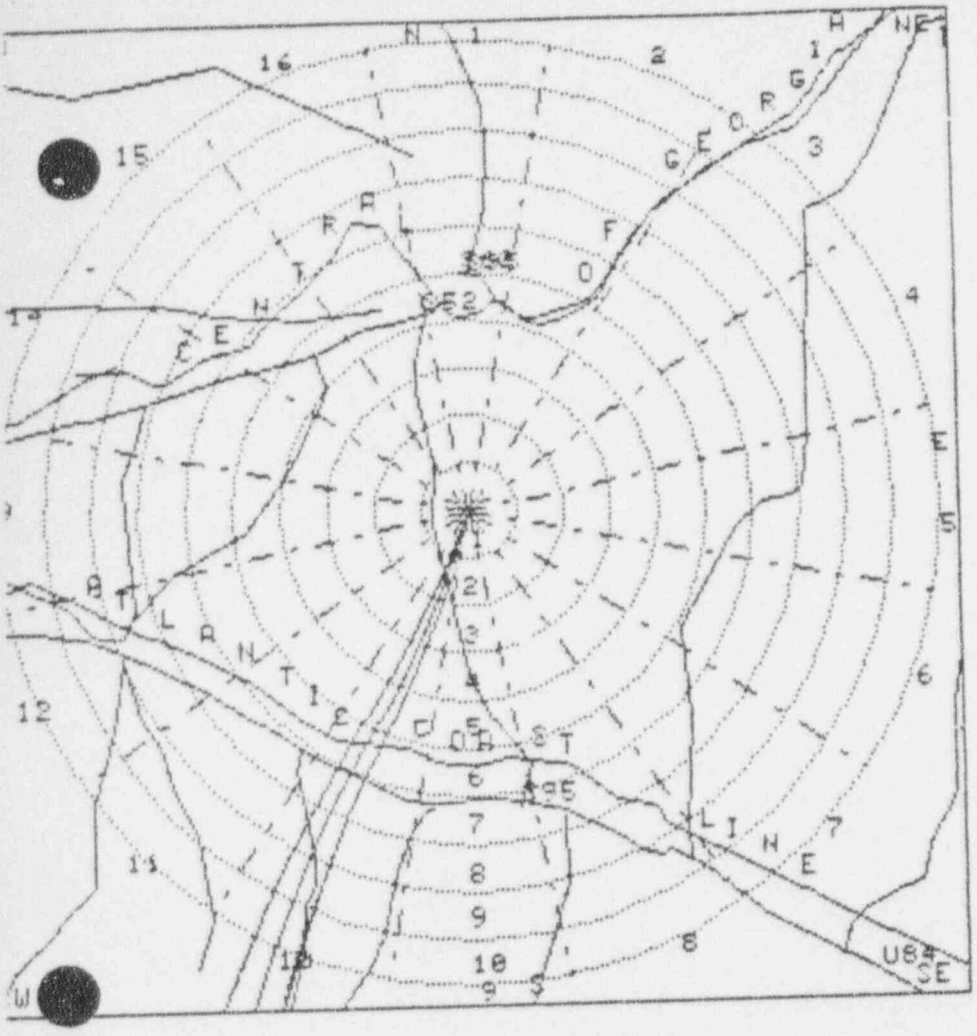
CURRENT PLUME INFORMATION AS OF 12:00 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORG/N	2.14*SIGMA DOSE RATE	IL	Y	Z	CHI/Q
ULIAN DAY = 19												
16G	1.4	199	9	12: 0	5.16E-15	4.81E-13	4.81E-13	TH	150.	56.2	1.47E-05	
16C	SB	199	9	12: 0	1.21E-14	1.12E-12	1.12E-12	TH	91.5	0.0	3.46E-05	
15G	2.8	201	9	12: 0	1.90E-15	1.77E-13	1.77E-13	TH	271.	84.9	5.52E-06	
14G	4.2	203	9	12: 0	1.06E-15	9.95E-14	9.95E-14	TH	383.	107.	3.15E-06	
13G	6.9	207	9	12: 0	7.13E-16	6.64E-14	6.64E-14	TH	490.	126.	2.14E-06	
12G	8.3	207	9	12: 0	3.68E-16	3.43E-14	3.43E-14	TH	692.	157.	1.12E-06	
11G	9.8	207	9	12: 0	2.68E-16	2.50E-14	2.50E-14	TH	799.	172.	8.38E-07	
10G	11.5	206	9	12: 0	1.99E-16	1.85E-14	1.85E-14	TH	911.	187.	6.35E-07	
9G	13.2	205	9	12: 0	1.51E-16	1.41E-14	1.41E-14	TH	1030	202.	4.93E-07	
8G	14.9	204	9	12: 0	1.23E-16	1.15E-14	1.15E-14	TH	1154	216.	4.13E-07	
7G	16.6	204	9	12: 0	1.03E-16	9.67E-15	9.67E-15	TH	1277	230.	3.54E-07	
6G	18.3	203	9	12: 0	8.81E-17	8.21E-15	8.21E-15	TH	1397	243.	3.09E-07	
5G	19.9	203	9	12: 0	7.60E-17	7.08E-15	7.08E-15	TH	1516	255.	2.73E-07	
4G	21.6	202	9	12: 0	6.48E-17	6.05E-15	6.05E-15	TH	1633	267.	2.40E-07	
3G	23.3	201	9	12: 0	5.59E-17	5.21E-15	5.21E-15	TH	1751	278.	2.14E-07	
2G	25.0	201	9	12: 0	4.83E-17	4.50E-15	4.50E-15	TH	1869	289.	1.91E-07	
1G	26.7	200	9	12: 0	4.20E-17	3.91E-15	3.91E-15	TH	1988	299.	1.72E-07	
1C	30.0	200	9	12:34	3.55E-17	3.31E-15	3.31E-15	TH	2211	0.0	1.45E-07	
1	40.0	200	9	14:19	2.33E-17	2.17E-15	2.17E-15	TH	2891	0.0	9.55E-08	
1	50.0	200	9	16: 5	1.68E-17	1.56E-15	1.56E-15	TH	3564	0.0	6.89E-08	

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 12:04
LEV: 5.7 MPH FROM 019 DEG STABILITY CLASS D
CURRENT PLUME INFORMATION AS OF 12:00 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
16E	1.4	199	9	12: 0	5.21E+02	1.91E+01	5.21E+02	WB	149.	55.2	5.72E-06
16E	SB	199	9	12: 0	4.98E+02	1.82E+01	4.98E+02	WB	90.8	0.0	5.46E-06
15E	2.8	201	9	12: 0	3.28E+02	1.21E+01	3.28E+02	WB	268.	83.7	3.68E-06
14E	4.2	203	9	12: 0	2.52E+02	9.48E+00	2.52E+02	WB	379.	105.	3.01E-06
13E	6.9	207	9	12: 0	1.05E+02	3.99E+00	1.05E+02	WB	585.	141.	1.43E-06
12E	8.3	207	9	12: 0	5.43E+01	2.08E+00	5.43E+01	WB	693.	157.	1.05E-06
11E	9.8	207	9	12: 0	1.04E+01	4.03E+01	4.03E+01	TH	807.	173.	7.81E-07
10E	11.5	206	9	12: 0	2.03E-01	4.74E-01	4.74E-01	TH	926.	189.	5.67E-07
9E	13.2	205	9	12: 0	1.53E-01	3.60E-01	3.60E-01	TH	1052	204.	4.42E-07
8E	14.9	204	9	12: 0	1.26E-01	3.00E-01	3.00E-01	TH	1175	219.	3.86E-07
7E	16.6	204	9	12: 0	1.03E-01	2.47E-01	2.47E-01	TH	1296	232.	3.34E-07
6E	18.3	203	9	12: 0	8.40E-02	2.02E-01	2.02E-01	TH	1416	245.	2.93E-07
5E	19.9	203	9	12: 0	6.84E-02	1.65E-01	1.65E-01	TH	1533	257.	2.61E-07
4E	21.6	202	9	12: 0	5.18E-02	1.26E-01	1.26E-01	TH	1652	268.	2.27E-07
3E	23.3	201	9	12: 0	3.82E-02	9.38E-02	9.38E-02	TH	1770	279.	2.03E-07
2E	25.0	201	9	12: 0	2.57E-02	6.35E-02	6.35E-02	TH	1889	290.	1.81E-07
1E	26.7	200	9	12: 0	6.93E-03	1.72E-02	1.72E-02	TH	2009	301.	1.64E-07
1E	30.0	200	9	12:34	5.88E-03	1.46E-02	1.46E-02	TH	2232	0.0	1.39E-07
[redacted]	40.0	200	9	14:19	3.90E-03	9.71E-03	9.71E-03	TH	2912	0.0	9.26E-08
[redacted]	50.0	200	9	16: 5	2.83E-03	7.05E-03	7.05E-03	TH	3505	0.0	6.72E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 2:065
ELEV: 5.7 MPH FROM 019 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 12:00

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

JNTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME 12:18
STABILITY CLASS D

DATE: 83/01/19
WIND: 5.8 MPH FROM 015 DEG

CURRENT PLUME INFORMATION AS OF 12:15 ON 83/01/19
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19										
17G	1.5	195	9	12:15	4.79E-15	4.64E-13	4.64E-13	TH 152.	56.9	1.40E-05
17G	SB	195	9	12:15	1.15E-14	1.11E-12	1.11E-12	TH 91.5	0.0	3.39E-05
16G	2.9	197	9	12:15	1.76E-15	1.71E-13	1.71E-13	TH 275.	85.9	5.26E-06
15G	4.3	199	9	12:15	9.92E-16	9.60E-14	9.60E-14	TH 390.	108.	3.00E-06
14G	5.6	201	9	12:15	6.63E-16	6.41E-14	6.41E-14	TH 498.	127.	2.04E-06
13G	8.3	205	9	12:15	4.86E-16	4.70E-14	4.70E-14	TH 602.	144.	1.52E-06
12G	9.7	205	9	12:15	2.78E-16	2.69E-14	2.69E-14	TH 802.	173.	8.88E-07
11G	11.3	205	9	12:15	2.09E-16	2.02E-14	2.02E-14	TH 907.	187.	6.82E-07
10G	12.9	205	9	12:15	1.59E-16	1.54E-14	1.54E-14	TH 1019	200.	5.31E-07
9G	14.6	204	9	12:15	1.23E-16	1.19E-14	1.19E-14	TH 1136	214.	4.20E-07
8G	16.3	204	9	12:15	1.03E-16	9.99E-15	9.99E-15	TH 1259	228.	3.58E-07
7G	18.0	203	9	12:15	8.78E-17	8.49E-15	8.49E-15	TH 1381	241.	3.12E-07
6G	19.7	203	9	12:15	7.54E-17	7.29E-15	7.29E-15	TH 1501	254.	2.75E-07
5G	21.4	202	9	12:15	6.56E-17	6.35E-15	6.35E-15	TH 1619	265.	2.46E-07
4G	23.1	201	9	12:15	5.65E-17	5.46E-15	5.46E-15	TH 1736	277.	2.18E-07
3G	24.8	201	9	12:15	4.90E-17	4.74E-15	4.74E-15	TH 1853	287.	1.95E-07
2G	26.5	201	9	12:15	4.26E-17	4.12E-15	4.12E-15	TH 1971	298.	1.75E-07
1G	28.2	200	9	12:15	3.72E-17	3.60E-15	3.60E-15	TH 2090	308.	1.59E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 12:18
STABILITY CLASS D

ATE: 83/01/19
5.8 MPH FROM 015 DEG

CURRENT PLUME INFORMATION AS OF 12:15 ON 83/01/19

PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19										
1E	1.5	195	9	12:15	4.88E+02	1.86E+01	WB	152.	55.9	5.67E-06
1E	SB	195	9	12:15	4.77E+02	1.82E+01	WB	90.8	0.0	5.54E-06
1E	2.9	197	9	12:15	3.07E+02	1.18E+01	WB	273.	84.7	3.57E-06
1E	4.3	199	9	12:15	2.41E+02	9.45E+00	WB	385.	107.	2.87E-06
1E	5.6	201	9	12:15	1.47E+02	5.82E+00	WB	492.	126.	1.85E-06
1E	8.3	205	9	12:15	7.82E+01	3.13E+00	WB	694.	157.	1.13E-06
12E	9.7	205	9	12:15	4.11E+01	1.66E+00	WB	801.	172.	8.42E-07
11E	11.3	205	9	12:15	7.81E+00	3.18E+01	TH	913.	187.	6.17E-07
10E	12.9	205	9	12:15	1.63E-01	4.01E-01	TH	1032	202.	4.82E-07
9E	14.6	204	9	12:15	1.25E-01	3.10E-01	TH	1156	216.	3.83E-07
8E	16.3	204	9	12:15	1.05E-01	2.62E-01	TH	1278	230.	3.38E-07
7E	18.0	203	9	12:15	8.71E-02	2.19E-01	TH	1399	243.	2.96E-07
6E	19.7	203	9	12:15	7.12E-02	1.80E-01	TH	1518	255.	2.63E-07
5E	21.4	202	9	12:15	5.78E-02	1.47E-01	TH	1635	267.	2.33E-07
4E	23.1	201	9	12:15	4.47E-02	1.14E-01	TH	1753	278.	2.07E-07
3E	24.8	201	9	12:15	3.32E-02	8.58E-02	TH	1871	289.	1.86E-07
2E	26.5	201	9	12:15	2.24E-02	5.84E-02	TH	1990	299.	1.67E-07
1E	28.2	200	9	12:15	6.08E-03	1.59E-02	TH	2109	310.	1.52E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 12:19
STABILITY CLASS D

DATE: 83/01/19
ELEV: 5.8 MPH FROM 015 DEG

CURRENT PLUME INFORMATION AS OF 12:15 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
1[illegible]G	1.5	195	9	12:15	4.79E-15	4.64E-13	4.64E-13	TH	152.	56.9	1.40E-05
1[illegible]G	SB	195	9	12:15	1.15E-14	1.11E-12	1.11E-12	TH	91.5	0.0	3.39E-05
1[illegible]G	2.9	197	9	12:15	1.76E-15	1.71E-13	1.71E-13	TH	275.	85.9	5.26E-06
1[illegible]G	4.3	199	9	12:15	9.92E-16	9.60E-14	9.60E-14	TH	390.	108	3.00E-06
1[illegible]G	5.6	201	9	12:15	6.63E-16	6.41E-14	6.41E-14	TH	498.	127.	2.04E-06
1[illegible]G	8.3	205	9	12:15	4.86E-16	4.70E-14	4.70E-14	TH	602.	144.	1.52E-06
12G	9.7	205	9	12:15	2.78E-16	2.69E-14	2.69E-14	TH	802.	173.	8.88E-07
11G	11.3	205	9	12:15	2.09E-16	2.02E-14	2.02E-14	TH	907.	187.	6.82E-07
10G	12.9	205	9	12:15	1.59E-16	1.54E-14	1.54E-14	TH	1019	200.	5.31E-07
9G	14.6	204	9	12:15	1.23E-16	1.19E-14	1.19E-14	TH	1136	214.	4.20E-07
8G	16.3	204	9	12:15	1.03E-16	9.99E-15	9.99E-15	TH	1259	228.	3.58E-07
7G	18.0	203	9	12:15	8.78E-17	8.49E-15	8.49E-15	TH	1381	241.	3.12E-07
6G	19.7	203	9	12:15	7.54E-17	7.29E-15	7.29E-15	TH	1501	254.	2.75E-07
5G	21.4	202	9	12:15	6.56E-17	6.35E-15	6.35E-15	TH	1619	265.	2.46E-07
4G	23.1	201	9	12:15	5.65E-17	5.46E-15	5.46E-15	TH	1736	277.	2.18E-07
3G	24.8	201	9	12:15	4.90E-17	4.74E-15	4.74E-15	TH	1853	287.	1.95E-07
2G	26.5	201	9	12:15	4.26E-17	4.12E-15	4.12E-15	TH	1971	298.	1.75E-07
1G	28.2	200	9	12:34	3.72E-17	3.60E-15	3.60E-15	TH	2090	308.	1.59E-07
[illegible]	30.0	200	9	14:17	3.40E-17	3.29E-15	3.29E-15	TH	2214	0.0	1.45E-07
[illegible]	40.0	199	9	16: 0	2.23E-17	2.16E-15	2.16E-15	TH	2896	0.0	9.53E-08
1G	50.0	198	9		1.61E-17	1.55E-15	1.55E-15	TH	3570	0.0	6.88E-08

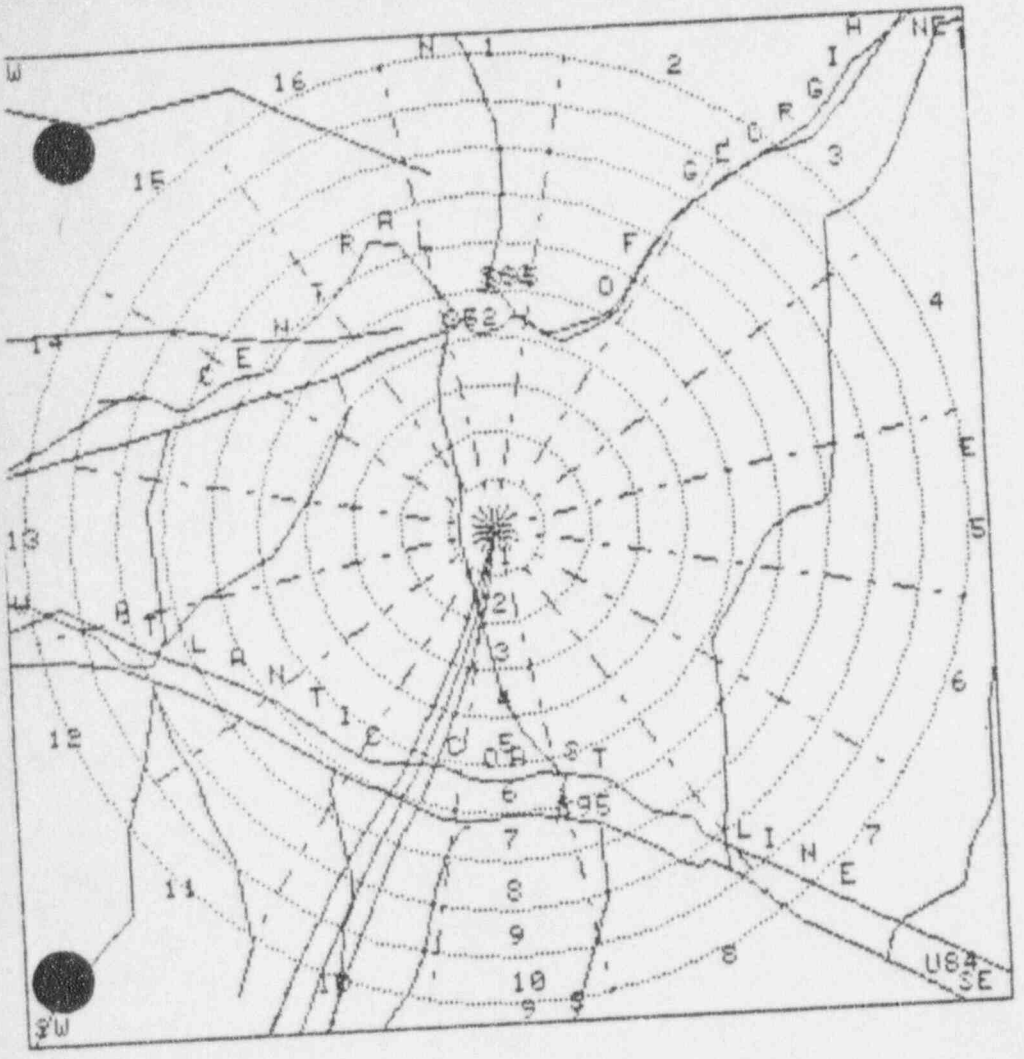
ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 12:19
STABILITY CLASS D

ATE: 83/01/19
[redacted] 5.8 MPH FROM 015 DEG

CURRENT PLUME INFORMATION AS OF 12:15 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEC	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
[redacted]E	1.5	195	9	12:15	4.88E+02	1.86E+01	4.88E+02	WB	152.	55.9	5.67E-06
[redacted]E	SB	195	9	12:15	4.77E+02	1.82E+01	4.77E+02	WB	90.8	0.0	5.54E-06
[redacted]E	2.9	197	9	12:15	3.07E+02	1.18E+01	3.07E+02	WB	273.	84.7	3.57E-06
[redacted]E	4.3	199	9	12:15	2.41E+02	9.45E+00	2.41E+02	WB	385.	107.	2.87E-06
[redacted]E	5.6	201	9	12:15	1.47E+02	5.82E+00	1.47E+02	WB	492.	126.	1.85E-06
[redacted]E	8.3	205	9	12:15	7.82E+01	3.13E+00	7.82E+01	WB	694.	157.	1.13E-06
12E	9.7	205	9	12:15	4.11E+01	1.66E+00	4.11E+01	WB	801.	172.	8.42E-07
11E	11.3	205	9	12:15	7.81E+00	3.18E+01	3.18E+01	TH	913.	187.	6.17E-07
10E	12.9	205	9	12:15	1.63E-01	4.01E-01	4.01E-01	TH	1032	202.	4.82E-07
9E	14.6	204	9	12:15	1.25E-01	3.10E-01	3.10E-01	TH	1156	216.	3.83E-07
8E	16.3	204	9	12:15	1.05E-01	2.62E-01	2.62E-01	TH	1278	230.	3.38E-07
7E	18.0	203	9	12:15	8.71E-02	2.19E-01	2.19E-01	TH	1399	243.	2.96E-07
6E	19.7	203	9	12:15	7.12E-02	1.80E-01	1.80E-01	TH	1518	255.	2.63E-07
5E	21.4	202	9	12:15	5.78E-02	1.47E-01	1.47E-01	TH	1635	267.	2.33E-07
4E	23.1	201	9	12:15	4.47E-02	1.14E-01	1.14E-01	TH	1753	278.	2.07E-07
3E	24.8	201	9	12:15	3.32E-02	8.58E-02	8.58E-02	TH	1871	289.	1.86E-07
2E	26.5	201	9	12:15	2.24E-02	5.84E-02	5.84E-02	TH	1990	299.	1.67E-07
[redacted]E	28.2	200	9	12:15	6.08E-03	1.59E-02	1.59E-02	TH	2109	310.	1.52E-07
[redacted]	30.0	200	9	12:34	5.56E-03	1.45E-02	1.45E-02	TH	2233	0.0	1.39E-07
[redacted]E	40.0	199	9	14:17	3.69E-03	9.65E-03	9.65E-03	TH	2915	0.0	9.25E-08
1E	50.0	198	9	16: 0	2.68E-03	7.01E-03	7.01E-03	TH	3589	0.0	6.71E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 2:210
ELEV: 5.8 MPH FROM 015 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 12:15

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON
5. ALL ON	
6. ALL OFF	
7. EXIT	

JNTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 12:33
STABILITY CLASS D

ATE: 83/01/19
LEV: 5.0 MPH FROM 015 DEG
CURRENT PLUME INFORMATION AS OF 12:30 ON 83/01/19
PRESENT LOCATION

ID	MILE	DEC	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	HIGH DOSE ORGAN THYROID	2.14*SIGMA DOSE RATE	ID	Y	Z	CHI/Q
JULIAN DAY = 19											
1[illegible]G	1.2	195	9	12:30	6.79E-15	6.82E-13	6.82E-13	TH	134.	51.9	2.04E-05
1[illegible]C	SB	195	9	12:30	1.31E-14	1.31E-12	1.31E-12	TH	91.5	0.0	3.95E-05
1[illegible]G	2.7	195	9	12:30	2.11E-15	2.11E-13	2.11E-13	TH	241.	78.4	6.45E-06
1[illegible]G	4.1	197	9	12:30	1.08E-15	1.09E-13	1.09E-13	TH	359.	102.	[illegible]7E-06
1[illegible]G	5.5	198	9	12:30	6.97E-16	6.99E-14	6.99E-14	TH	471.	122.	[illegible]E-06
1[illegible]G	6.9	200	9	12:30	4.99E-16	5.01E-14	5.01E-14	TH	577.	140.	1.[illegible]E-06
1[illegible]C	9.5	204	9	12:30	3.83E-16	3.84E-14	3.84E-14	TH	680.	156.	1.24E-06
13G	10.9	204	9	12:30	2.30E-16	2.31E-14	2.31E-14	TH	878.	183.	7.67E-07
12G	12.5	204	9	12:30	1.76E-16	1.77E-14	1.77E-14	TH	982.	196.	5.99E-07
11G	14.1	204	9	12:30	1.37E-16	1.37E-14	1.37E-14	TH	1093	209.	4.73E-07
10G	15.9	204	9	12:30	1.07E-16	1.07E-14	1.07E-14	TH	1210	223.	3.80E-07
9G	17.6	203	9	12:30	9.06E-17	9.09E-15	9.09E-15	TH	1333	236.	3.27E-07
8G	19.3	203	9	12:30	7.76E-17	7.79E-15	7.79E-15	TH	1454	249.	2.87E-07
7G	21.0	202	9	12:30	6.71E-17	6.73E-15	6.73E-15	TH	1574	261.	2.55E-07
6G	22.6	202	9	12:30	5.88E-17	5.90E-15	5.90E-15	TH	1692	272.	2.30E-07
5G	24.3	201	9	12:30	5.08E-17	5.10E-15	5.10E-15	TH	1808	283.	2.04E-07
4C	26.0	201	9	12:30	4.43E-17	4.45E-15	4.45E-15	TH	1925	294.	1.84E-07
3G	27.7	200	9	12:30	3.86E-17	3.88E-15	3.88E-15	TH	2043	304.	1.66E-07
2G	29.4	200	9	12:30	3.39E-17	3.40E-15	3.40E-15	TH	2161	314.	1.51E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 12:33
STABILITY CLASS D

DATE: 83/01/19
ELEV: 5.0 MPH FROM 015 DEG

CURRENT PLUME INFORMATION AS OF 12:30 ON 83/01/19
PRESENT LOCATION

ID	MILE	DEC	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
18E	1.2	195	9	12:30	4.66E+02	1.85E+01	4.66E+02	WB	133.	50.8	5.76E-06
18E	SB	195	9	12:30	3.91E+02	1.55E+01	3.91E+02	WB	90.0	0.0	4.83E-06
17E	2.7	195	9	12:30	3.05E+02	1.23E+01	3.05E+02	WB	258.	81.5	3.75E-06
16E	4.1	197	9	12:30	2.41E+02	9.81E+00	2.41E+02	WB	373.	104.	2.96E-06
15E	5.5	198	9	12:30	1.49E+02	6.13E+00	1.49E+02	WB	482.	124.	1.87E-06
14E	6.9	200	9	12:30	1.05E+02	4.37E+00	1.05E+02	WB	587.	141.	1.40E-06
13E	9.5	204	9	12:30	6.10E+01	2.56E+00	6.10E+01	WB	786.	170.	9.31E-07
12E	10.9	204	9	12:30	3.15E+01	1.34E+00	3.15E+01	WB	892.	184.	6.82E-07
11E	12.5	204	9	12:30	6.41E+00	2.74E+01	2.74E+01	TH	1004	198.	5.35E-07
10E	14.1	204	9	12:30	1.36E-01	3.52E-01	3.52E-01	TH	1121	212.	4.24E-07
9E	15.9	204	9	12:30	1.06E-01	2.76E-01	2.76E-01	TH	1245	226.	3.42E-07
8E	17.6	203	9	12:30	8.95E-02	2.35E-01	2.35E-01	TH	1367	239.	3.04E-07
7E	19.3	203	9	12:30	7.50E-02	1.98E-01	1.98E-01	TH	1486	252.	2.69E-07
6E	21.0	202	9	12:30	6.10E-02	1.62E-01	1.62E-01	TH	1605	264.	2.37E-07
5E	22.6	202	9	12:30	5.05E-02	1.35E-01	1.35E-01	TH	1722	275.	2.15E-07
4E	24.3	201	9	12:30	3.93E-02	1.06E-01	1.06E-01	TH	1839	286.	1.92E-07
3E	26.0	201	9	12:30	2.93E-02	7.97E-02	7.97E-02	TH	1957	296.	1.73E-07
2E	27.7	200	9	12:30	1.99E-02	5.45E-02	5.45E-02	TH	2075	307.	1.57E-07
1E	29.4	200	9	12:30	5.41E-03	1.49E-02	1.49E-02	TH	2194	317.	1.43E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 12:34
STABILITY CLASS D

ATE: 83/01/19
LEV: 5.0 MPH FROM 015 DEG

CURRENT PLUME INFORMATION AS OF 12:30 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
1C	1.2	195	9	12:30	6.79E-15	6.82E-13	6.82E-13	TH	134.	51.9	2.04E-05
1C	SB	195	9	12:30	1.31E-14	1.31E-12	1.31E-12	TH	91.5	0.0	3.95E-05
1C	2.7	195	9	12:30	2.11E-15	2.11E-13	2.11E-13	TH	241.	78.4	6.45E-06
1C	4.1	197	9	12:30	1.08E-15	1.09E-13	1.09E-13	TH	359.	102.	3.37E-06
1C	5.5	198	9	12:30	6.97E-16	6.99E-14	6.99E-14	TH	471.	122.	2.19E-06
1C	6.9	200	9	12:30	4.99E-16	5.01E-14	5.01E-14	TH	577.	140.	1.60E-06
1C	9.5	204	9	12:30	3.83E-16	3.84E-14	3.84E-14	TH	680.	156.	1.24E-06
1C	10.9	204	9	12:30	2.30E-16	2.31E-14	2.31E-14	TH	878.	183.	7.67E-07
1C	12.5	204	9	12:30	1.76E-16	1.77E-14	1.77E-14	TH	982.	196.	5.99E-07
1C	14.1	204	9	12:30	1.37E-16	1.37E-14	1.37E-14	TH	1093	209.	4.73E-07
1C	15.9	204	9	12:30	1.07E-16	1.07E-14	1.07E-14	TH	1210	223.	3.80E-07
8C	17.6	203	9	12:30	9.06E-17	9.09E-15	9.09E-15	TH	1333	236.	3.27E-07
7C	19.3	203	9	12:30	7.76E-17	7.79E-15	7.79E-15	TH	1454	249.	2.87E-07
6C	21.0	202	9	12:30	6.71E-17	6.73E-15	6.73E-15	TH	1574	261.	2.55E-07
5C	22.6	202	9	12:30	5.88E-17	5.90E-15	5.90E-15	TH	1692	272.	2.30E-07
4C	24.3	201	9	12:30	5.08E-17	5.10E-15	5.10E-15	TH	1808	283.	2.04E-07
3C	26.0	201	9	12:30	4.43E-17	4.45E-15	4.45E-15	TH	1925	294.	1.84E-07
2C	27.7	200	9	12:30	3.86E-17	3.88E-15	3.88E-15	TH	2043	304.	1.66E-07
1C	29.4	200	9	12:30	3.39E-17	3.40E-15	3.40E-15	TH	2161	314.	1.51E-07
[illegible]	30.0	200	9	12:37	3.30E-17	3.31E-15	3.31E-15	TH	2200	0.0	1.46E-07
[illegible]	40.0	199	9	14:37	2.16E-17	2.17E-15	2.17E-15	TH	2880	0.0	9.61E-08
1C	50.0	198	9	16:37	1.55E-17	1.56E-15	1.56E-15	TH	3553	0.0	6.93E-08

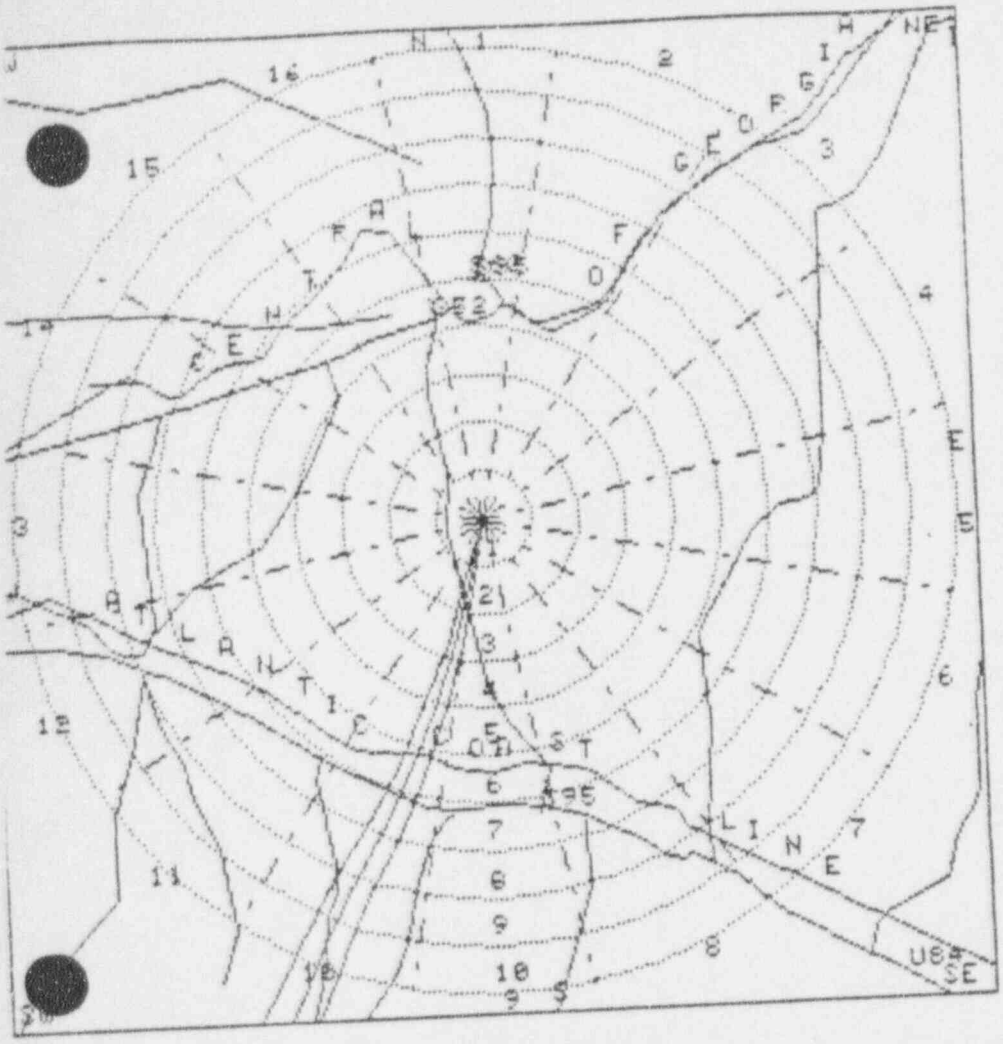
ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 12:34
STABILITY CLASS D

DATE: 83/01/19
ELEV: 5.0 MPH FROM 015 DEG

CURRENT PLUME INFORMATION AS OF 12:30 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
1E	1.2	195	9	12:30	4.66E+02	1.85E+01	4.66E+02	WB	133.	50.8	5.76E-06
1E	SB	195	9	12:30	3.91E+02	1.55E+01	3.91E+02	WB	90.8	0.0	4.83E-06
1E	2.7	195	9	12:30	3.05E+02	1.23E+01	3.05E+02	WB	258.	81.5	3.75E-06
1E	4.1	197	9	12:30	2.41E+02	9.81E+00	2.41E+02	WB	373.	104.	2.96E-06
1E	5.5	198	9	12:30	1.49E+02	6.13E+00	1.49E+02	WB	482.	124.	1.87E-06
1E	6.9	200	9	12:30	1.05E+02	4.37E+00	1.05E+02	WB	587.	141.	1.40E-06
1E	9.5	204	9	12:30	6.10E+01	2.56E+00	6.10E+01	WB	786.	170.	9.31E-07
12E	10.9	204	9	12:30	3.15E+01	1.34E+00	3.15E+01	WB	892.	184.	6.82E-07
11E	12.5	204	9	12:30	6.41E+00	2.74E+01	2.74E+01	TH	1004	198.	5.35E-07
10E	14.1	204	9	12:30	1.36E-01	3.52E-01	3.52E-01	TH	1121	212.	4.24E-07
9E	15.9	204	9	12:30	1.06E-01	2.76E-01	2.76E-01	TH	1245	226.	3.42E-07
8E	17.6	203	9	12:30	8.95E-02	2.35E-01	2.35E-01	TH	1367	239.	3.04E-07
7E	19.3	203	9	12:30	7.50E-02	1.98E-01	1.98E-01	TH	1486	252.	2.69E-07
6E	21.0	202	9	12:30	6.10E-02	1.62E-01	1.62E-01	TH	1605	264.	2.37E-07
5E	22.6	202	9	12:30	5.05E-02	1.35E-01	1.35E-01	TH	1722	275.	2.15E-07
4E	24.3	201	9	12:30	3.93E-02	1.06E-01	1.06E-01	TH	1839	286.	1.92E-07
3E	26.0	201	9	12:30	2.93E-02	7.97E-02	7.97E-02	TH	1957	296.	1.73E-07
2E	27.7	200	9	12:30	1.99E-02	5.45E-02	5.45E-02	TH	2075	307.	1.57E-07
-	29.4	200	9	12:30	5.41E-03	1.49E-02	1.49E-02	TH	2194	317.	1.43E-07
--	30.0	200	9	12:37	5.27E-03	1.45E-02	1.45E-02	TH	2233	0.0	1.39E-07
1E	40.0	199	9	14:37	3.49E-03	9.62E-03	9.62E-03	TH	2913	0.0	9.25E-08
1E	50.0	198	9	16:37	2.54E-03	6.99E-03	6.99E-03	TH	3586	0.0	6.72E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 12:36
ELEV: 5.0 MPH FROM 015 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 12:30

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

ENTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 12:49
STABILITY CLASS D
ELEV: 4.1 MPH FROM 016 DEG

CURRENT PLUME INFORMATION AS OF 12:45 ON 83/01/19

PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14%SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
1G	1.0	196	9	12:45	1.04E-14	1.08E-12	1.08E-12	TH	114.	46.4	3.22E-05
1C	SB	196	9	12:45	1.54E-14	1.60E-12	1.60E-12	TH	91.5	0.0	4.77E-05
2G	2.3	196	9	12:45	3.15E-15	3.27E-13	3.27E-13	TH	206.	70.2	9.87E-06
2C	3.7	195	9	12:45	1.34E-15	1.39E-13	1.39E-13	TH	309.	92.8	4.26E-06
3G	5.2	196	9	12:45	7.94E-16	8.25E-14	8.25E-14	TH	424.	114.	2.56E-06
3C	6.5	198	9	12:45	5.44E-16	5.66E-14	5.66E-14	TH	534.	133.	1.78E-06
4G	7.9	200	9	12:45	4.06E-16	4.22E-14	4.22E-14	TH	639.	149.	1.35E-06
4C	10.5	203	9	12:45	3.20E-16	3.32E-14	3.32E-14	TH	741.	164.	1.08E-06
12G	12.0	204	9	12:45	1.99E-16	2.07E-14	2.07E-14	TH	937.	190.	6.89E-07
11G	13.5	204	9	12:45	1.54E-16	1.60E-14	1.60E-14	TH	1042	203.	5.15E-07
10G	15.1	204	9	12:45	1.21E-16	1.25E-14	1.25E-14	TH	1152	216.	4.35E-07
9G	16.9	203	9	12:45	9.59E-17	9.96E-15	9.96E-15	TH	1269	229.	3.52E-07
8G	18.6	203	9	12:45	8.14E-17	8.45E-15	8.45E-15	TH	1391	242.	3.06E-07
7G	20.3	202	9	12:45	7.02E-17	7.29E-15	7.29E-15	TH	1512	255.	2.70E-07
6G	22.0	202	9	12:45	6.10E-17	6.34E-15	6.34E-15	TH	1631	266.	2.41E-07
5G	23.6	201	9	12:45	5.36E-17	5.57E-15	5.57E-15	TH	1749	278.	2.18E-07
4G	25.3	201	9	12:45	4.66E-17	4.84E-15	4.84E-15	TH	1865	288.	1.95E-07
3G	27.0	201	9	12:45	4.07E-17	4.23E-15	4.23E-15	TH	1982	299.	1.76E-07
2G	28.7	200	9	12:45	3.56E-17	3.70E-15	3.70E-15	TH	2099	309.	1.59E-07
;	30.5	200	9	12:45	3.13E-17	3.25E-15	3.25E-15	TH	2217	319.	1.45E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 12:49
ELEV: 4.1 MPH FROM 016 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 12:45 ON 83/01/19
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
19E	1.0	196	9	12:45	3.51E+02	1.45E+01	3.51E+02	WB	114.	45.2	4.65E-06
19E	SB	196	9	12:45	2.79E+02	1.15E+01	2.79E+02	WB	90.8	0.0	3.69E-06
18E	2.3	196	9	12:45	3.58E+02	1.50E+01	3.58E+02	WB	223.	73.6	4.68E-06
17E	3.7	195	9	12:45	2.50E+02	1.06E+01	2.50E+02	WB	342.	98.9	3.24E-06
16E	5.2	196	9	12:45	1.55E+02	6.63E+00	1.55E+02	WB	454.	119.	2.00E-06
15E	6.5	198	9	12:45	1.10E+02	4.79E+00	1.10E+02	WB	561.	137.	1.46E-06
14E	7.9	200	9	12:45	8.43E+01	3.69E+00	8.43E+01	WB	664.	153.	1.18E-06
13E	10.5	203	9	12:45	4.78E+01	2.11E+00	4.78E+01	WB	862.	180.	7.71E-07
12E	12.0	204	9	12:45	2.64E+01	1.18E+00	2.64E+01	WB	967.	194.	6.03E-07
11E	13.5	204	9	12:45	5.45E+00	2.45E+01	2.45E+01	TH	1078	207.	4.80E-07
10E	15.1	204	9	12:45	1.16E-01	3.18E-01	3.18E-01	TH	1195	221.	3.85E-07
9E	16.9	203	9	12:45	9.19E-02	2.52E-01	2.52E-01	TH	1318	234.	3.13E-07
8E	18.6	203	9	12:45	7.82E-02	2.16E-01	2.16E-01	TH	1439	247.	2.81E-07
7E	20.3	202	9	12:45	6.50E-02	1.81E-01	1.81E-01	TH	1559	259.	2.47E-07
6E	22.0	202	9	12:45	5.40E-02	1.51E-01	1.51E-01	TH	1677	271.	2.22E-07
5E	23.6	201	9	12:45	4.49E-02	1.26E-01	1.26E-01	TH	1793	282.	2.02E-07
4E	25.3	201	9	12:45	3.51E-02	9.98E-02	9.98E-02	TH	1911	292.	1.81E-07
3E	27.0	201	9	12:45	2.63E-02	7.51E-02	7.51E-02	TH	2028	303.	1.64E-07
2E	28.7	200	9	12:45	1.79E-02	5.15E-02	5.15E-02	TH	2146	313.	1.49E-07
E	30.5	200	9	12:45	4.92E-03	1.42E-02	1.42E-02	TH	2265	323.	1.37E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 12:50
STABILITY CLASS D

DATE: 83/01/19
[redacted]: 4.1 MPH FROM 016 DEG

CURRENT PLUME INFORMATION AS OF 12:45 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	Y	Z	2.14*SIGMA CHI/Q
JULIAN DAY = 19											
1G	1.0	196	9	12:45	1.04E-14	1.08E-12	1.08E-12	TH	114.	46.4	3.22E-05
2G	SB	196	9	12:45	1.54E-14	1.60E-12	1.60E-12	TH	91.5	0.0	4.77E-05
1G	2.3	196	9	12:45	3.15E-15	3.27E-13	3.27E-13	TH	206.	70.2	9.87E-06
1G	3.7	195	9	12:45	1.34E-15	1.39E-13	1.39E-13	TH	309.	92.8	4.26E-06
1G	5.2	196	9	12:45	7.94E-16	8.25E-14	8.25E-14	TH	424.	114.	2.56E-06
1G	6.5	198	9	12:45	5.44E-16	5.66E-14	5.66E-14	TH	534.	133.	1.78E-06
1G	7.9	200	9	12:45	4.06E-16	4.22E-14	4.22E-14	TH	639.	149.	1.35E-06
1G	10.5	203	9	12:45	3.20E-16	3.32E-14	3.32E-14	TH	741.	164.	1.08E-06
1G	12.0	204	9	12:45	1.99E-16	2.07E-14	2.07E-14	TH	937.	190.	6.89E-07
1G	13.5	204	9	12:45	1.54E-16	1.60E-14	1.60E-14	TH	1042	203.	5.45E-07
1G	15.1	204	9	12:45	1.21E-16	1.25E-14	1.25E-14	TH	1152	216.	4.35E-07
9G	16.9	203	9	12:45	9.59E-17	9.96E-15	9.96E-15	TH	1269	229.	3.52E-07
8G	18.6	203	9	12:45	8.14E-17	8.45E-15	8.45E-15	TH	1391	242.	3.06E-07
7G	20.3	202	9	12:45	7.02E-17	7.29E-15	7.29E-15	TH	1512	255.	2.70E-07
6G	22.0	202	9	12:45	6.10E-17	6.34E-15	6.34E-15	TH	1631	266.	2.41E-07
5G	23.6	201	9	12:45	5.36E-17	5.57E-15	5.57E-15	TH	1749	278.	2.18E-07
4G	25.3	201	9	12:45	4.66E-17	4.84E-15	4.84E-15	TH	1865	288.	1.95E-07
3G	27.0	201	9	12:45	4.07E-17	4.23E-15	4.23E-15	TH	1982	299.	1.76E-07
2G	28.7	200	9	12:45	3.56E-17	3.70E-15	3.70E-15	TH	2099	309.	1.59E-07
	30.5	200	9	12:45	3.13E-17	3.25E-15	3.25E-15	TH	2217	319.	1.45E-07
1G	40.0	199	9	15: 3	2.09E-17	2.17E-15	2.17E-15	TH	2866	0.0	9.69E-08
1G	50.0	198	9	17:28	1.50E-17	1.56E-15	1.56E-15	TH	3539	0.0	6.97E-08

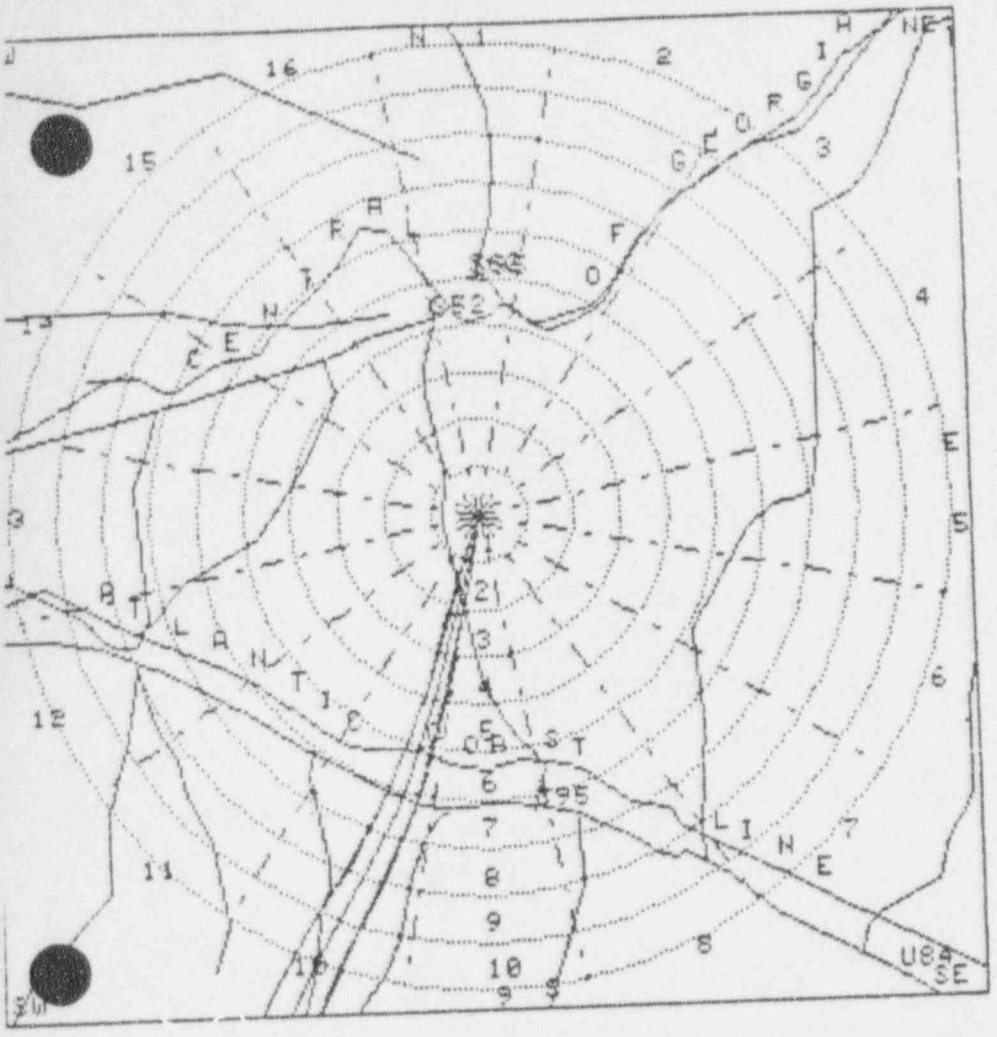
ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 12:50
STABILITY CLASS D

DATE: 83/01/19
[redacted]: 4.1 MPH FROM 016 DEG

CURRENT PLUME INFORMATION AS OF 12:45 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
[redacted]E	1.0	196	9	12:45	3.51E+02	1.45E+01	3.51E+02	WB	114.	45.2	4.65E-06
[redacted]E	SB	196	9	12:45	2.79E+02	1.15E+01	2.79E+02	WB	90.8	0.0	3.69E-06
[redacted]E	2.3	196	9	12:45	3.58E+02	1.50E+01	3.58E+02	WB	223.	73.6	4.68E-06
[redacted]E	3.7	195	9	12:45	2.50E+02	1.06E+01	2.50E+02	WB	342.	98.9	3.24E-06
[redacted]E	5.2	196	9	12:45	1.55E+02	6.63E+00	1.55E+02	WB	454.	119.	2.00E-06
[redacted]E	6.5	198	9	12:45	1.10E+02	4.79E+00	1.10E+02	WB	561.	137.	1.46E-06
[redacted]E	7.9	200	9	12:45	8.43E+01	3.69E+00	8.43E+01	WB	664.	153.	1.18E-06
13E	10.5	203	9	12:45	4.78E+01	2.11E+00	4.78E+01	WB	862.	180.	7.71E-07
12E	12.0	204	9	12:45	2.64E+01	1.18E+00	2.64E+01	WB	967.	194.	6.03E-07
11E	13.5	204	9	12:45	5.45E+00	2.45E+00	2.45E+01	TH	1078	207.	4.80E-07
10E	15.1	204	9	12:45	1.16E-01	3.18E-01	3.18E-01	TH	1195	221.	3.85E-07
9E	16.9	203	9	12:45	9.19E-02	2.52E-01	2.52E-01	TH	1318	234.	3.13E-07
8E	18.6	203	9	12:45	7.82E-02	2.16E-01	2.16E-01	TH	1439	247.	2.81E-07
7E	20.3	202	9	12:45	6.50E-02	1.81E-01	1.81E-01	TH	1559	259.	2.47E-07
6E	22.0	202	9	12:45	5.40E-02	1.51E-01	1.51E-01	TH	1677	271.	2.22E-07
5E	23.6	201	9	12:45	4.49E-02	1.26E-01	1.26E-01	TH	1793	282.	2.02E-07
4E	25.3	201	9	12:45	3.51E-02	9.98E-02	9.98E-02	TH	1911	292.	1.81E-07
3E	27.0	201	9	12:45	2.63E-02	7.51E-02	7.51E-02	TH	2028	303.	1.64E-07
[redacted]E	28.7	200	9	12:45	1.79E-02	5.15E-02	5.15E-02	TH	2146	313.	1.49E-07
[redacted]	30.5	200	9	12:45	4.92E-03	1.42E-02	1.42E-02	TH	2265	323.	1.37E-07
1E	40.0	199	9	15: 3	3.33E-03	9.64E-03	9.64E-03	TH	2913	0.0	9.31E-08
1E	50.0	198	9	17:28	2.41E-03	7.00E-03	7.00E-03	TH	3586	0.0	6.75E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME:12:50
ELEV: 4.1 MPH FROM 016 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 12:45

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

ENTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 13.04
ELEV: 3.3 MPH FROM 016 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 13:00 ON 83/01/19

PRESENT LOCATION

ID	MILE	DEC	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
20G	.8	196	9	13: 0	1.74E-14	1.87E-12	1.87E-12	TH	95.5	40.7	5.53E-05
20G	SB	196	9	13: 0	1.88E-14	2.02E-12	2.02E-12	TH	91.5	0.0	5.96E-05
19G	1.9	196	9	13: 0	5.11E-15	5.50E-13	5.50E-13	TH	170.	61.5	1.64E-05
18G	3.1	196	9	13: 0	2.07E-15	2.22E-13	2.22E-13	TH	258.	82.0	6.74E-06
17G	4.6	196	9	13: 0	1.00E-15	1.08E-13	1.08E-13	TH	358.	102.	3.32E-06
16G	6.0	196	9	13: 0	6.40E-16	6.87E-14	6.87E-14	TH	472.	123.	2.14E-06
15G	7.4	198	9	13: 0	4.56E-16	4.90E-14	4.90E-14	TH	581.	141.	1.55E-06
14G	8.7	199	9	13: 0	3.49E-16	3.75E-14	3.75E-14	TH	686.	156.	1.20E-06
13G	11.4	202	9	13: 0	2.79E-16	3.00E-14	3.00E-14	TH	787.	171.	9.84E-07
12G	12.8	203	9	13: 0	1.78E-16	1.91E-14	1.91E-14	TH	982.	196.	6.39E-07
11G	14.3	203	9	13: 0	1.39E-16	1.49E-14	1.49E-14	TH	1087	209.	5.09E-07
10G	16.0	203	9	13: 0	1.09E-16	1.18E-14	1.18E-14	TH	1196	221.	4.09E-07
9G	17.7	203	9	13: 0	8.74E-17	9.40E-15	9.40E-15	TH	1313	234.	3.33E-07
8G	19.4	202	9	13: 0	7.46E-17	8.01E-15	8.01E-15	TH	1435	247.	2.91E-07
7G	21.1	202	9	13: 0	6.46E-17	6.94E-15	6.94E-15	TH	1555	259.	2.58E-07
6G	22.8	202	9	13: 0	5.63E-17	6.05E-15	6.05E-15	TH	1674	271.	2.31E-07
5G	24.5	201	9	13: 0	4.97E-17	5.34E-15	5.34E-15	TH	1792	282.	2.09E-07
4G	26.2	201	9	13: 0	4.32E-17	4.65E-15	4.65E-15	TH	1900	292.	1.88E-07
3G	27.9	200	9	13: 0	3.79E-17	4.07E-15	4.07E-15	TH	2025	303.	1.70E-07
2G	29.6	200	9	13: 0	3.32E-17	3.57E-15	3.57E-15	TH	2142	313.	1.54E-07
1G	31.3	200	9	13: 0	2.93E-17	3.15E-15	3.15E-15	TH	2260	323.	1.40E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 13:04
STABILITY CLASS D

DATE: 83/01/19
WIND: 3.3 MPH FROM 016 DEG

CURRENT PLUME INFORMATION AS OF 13:00 ON 83/01/19
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
20E	.8	196	9	13: 0	5.12E+02	2.20E+01	5.12E+02	WB	94.9	39.2	7.26E-06
20E	SB	196	9	13: 0	1.54E+02	6.66E+00	1.54E+02	WB	90.8	0.0	2.19E-06
19E	1.9	196	9	13: 0	3.90E+02	1.69E+01	3.90E+02	WB	188.	65.1	5.44E-06
18E	3.1	196	9	13: 0	3.38E+02	1.49E+01	3.38E+02	WB	292.	88.7	4.66E-06
18E	4.6	196	9	13: 0	1.84E+02	8.21E+00	1.84E+02	WB	408.	111.	2.52E-06
16E	6.0	196	9	13: 0	1.20E+02	5.42E+00	1.20E+02	WB	518.	130.	1.65E-06
15E	7.4	198	9	13: 0	9.16E+01	4.16E+00	9.16E+01	WB	624.	147.	1.28E-06
14E	8.7	199	9	13: 0	6.97E+01	3.20E+00	6.97E+01	WB	726.	162.	1.03E-06
13E	11.4	202	9	13: 0	4.09E+01	1.90E+00	4.09E+01	WB	922.	188.	6.97E-07
12E	12.8	203	9	13: 0	2.28E+01	1.07E+00	2.28E+01	WB	1027	201.	5.51E-07
11E	14.3	203	9	13: 0	4.76E+00	2.25E+01	2.25E+01	TH	1137	214.	4.42E-07
10E	16.0	203	9	13: 0	1.03E-01	2.94E-01	2.94E-01	TH	1254	227.	3.57E-07
9E	17.7	203	9	13: 0	8.15E-02	2.35E-01	2.35E-01	TH	1376	241.	2.93E-07
8E	19.4	202	9	13: 0	6.97E-02	2.02E-01	2.02E-01	TH	1497	253.	2.64E-07
7E	21.1	202	9	13: 0	5.83E-02	1.70E-01	1.70E-01	TH	1617	265.	2.33E-07
6E	22.8	202	9	13: 0	4.86E-02	1.43E-01	1.43E-01	TH	1734	276.	2.10E-07
5E	24.5	201	9	13: 0	4.05E-02	1.20E-01	1.20E-01	TH	1851	287.	1.92E-07
4E	26.2	201	9	13: 0	3.18E-02	9.49E-02	9.49E-02	TH	1968	297.	1.73E-07
3E	27.9	200	9	13: 0	2.38E-02	7.17E-02	7.17E-02	TH	2085	308.	1.57E-07
2E	29.6	200	9	13: 0	1.63E-02	4.93E-02	4.93E-02	TH	2203	318.	1.43E-07
1E	31.3	200	9	13: 0	4.49E-03	1.36E-02	1.36E-02	TH	2322	327.	1.32E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 13:04
STABILITY CLASS D
ELEV: 3.3 MPH FROM 016 DEG
CURRENT PLUME INFORMATION AS OF 13:00 ON 83/01/19
ABBREVIATED PROJECTION

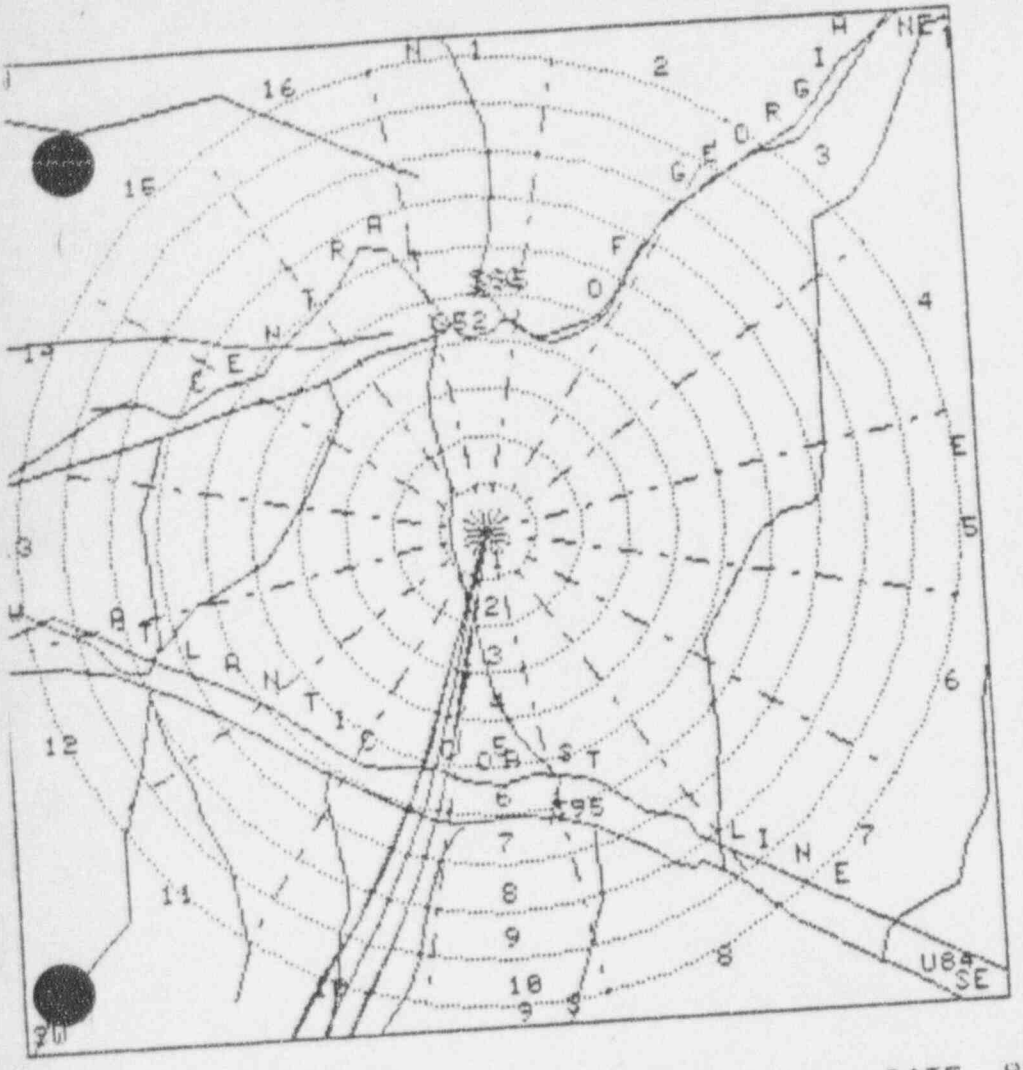
ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
2OG	.8	196	9	13: 0	1.74E-14	1.87E-12	1.87E-12	TH	95.5	40.7	5.53E-05
2OG	SB	196	9	13: 0	1.88E-14	2.02E-12	2.02E-12	TH	91.5	0.0	5.96E-05
19G	1.9	196	9	13: 0	5.11E-15	5.50E-13	5.50E-13	TH	170.	61.5	1.64E-05
18G	3.1	196	9	13: 0	2.07E-15	2.22E-13	2.22E-13	TH	258.	82.0	6.74E-06
17G	4.6	196	9	13: 0	1.00E-15	1.08E-13	1.08E-13	TH	358.	102.	3.32E-06
16G	6.0	196	9	13: 0	6.40E-16	6.87E-14	6.87E-14	TH	472.	123.	2.14E-06
15G	7.4	198	9	13: 0	4.56E-16	4.90E-14	4.90E-14	TH	581.	141.	1.55E-06
14G	8.7	199	9	13: 0	3.49E-16	3.75E-14	3.75E-14	TH	686.	156.	1.20E-06
13G	11.4	202	9	13: 0	2.79E-16	3.00E-14	3.00E-14	TH	787.	171.	9.84E-07
12G	12.8	203	9	13: 0	1.78E-16	1.91E-14	1.91E-14	TH	982.	196.	6.39E-07
11G	14.3	203	9	13: 0	1.39E-16	1.49E-14	1.49E-14	TH	1087	209.	5.09E-07
10G	16.0	203	9	13: 0	1.09E-16	1.18E-14	1.18E-14	TH	1196	221.	4.09E-07
9G	17.7	203	9	13: 0	8.74E-17	9.40E-15	9.40E-15	TH	1313	234.	3.33E-07
8G	19.4	202	9	13: 0	7.46E-17	8.01E-15	8.01E-15	TH	1435	247.	2.91E-07
7G	21.1	202	9	13: 0	6.46E-17	6.94E-15	6.94E-15	TH	1555	259.	2.58E-07
6G	22.8	202	9	13: 0	5.63E-17	6.05E-15	6.05E-15	TH	1674	271.	2.31E-07
5G	24.5	201	9	13: 0	4.97E-17	5.34E-15	5.34E-15	TH	1792	282.	2.09E-07
4G	26.2	201	9	13: 0	4.32E-17	4.65E-15	4.65E-15	TH	1908	292.	1.88E-07
3G	27.9	200	9	13: 0	3.79E-17	4.07E-15	4.07E-15	TH	2025	303.	1.70E-07
3	29.6	200	9	13: 0	3.32E-17	3.57E-15	3.57E-15	TH	2142	313.	1.54E-07
2G	31.3	200	9	13: 0	2.93E-17	3.15E-15	3.15E-15	TH	2260	323.	1.40E-07
1G	40.0	199	9	15:38	2.03E-17	2.18E-15	2.18E-15	TH	2852	0.0	9.76E-08
1G	50.0	198	9	18:39	1.46E-17	1.57E-15	1.57E-15	TH	3525	0.0	7.01E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 13:04
STABILITY CLASS D

DATE: 83/01/19
FLEV: 3.3 MPH FROM 016 DEG
CURRENT PLUME INFORMATION AS OF 13:00 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
20E	.8	196	9	13: 0	5.12E+02	2.20E+01	5.12E+02	WB	94.9	39.2	7.26E-06
20E	SB	196	9	13: 0	1.54E+02	6.66E+00	1.54E+02	WB	90.8	0.0	2.19E-06
19E	1.9	196	9	13: 0	3.90E+02	1.69E+01	3.90E+02	WB	188.	65.1	5.44E-06
18E	3.1	196	9	13: 0	3.38E+02	1.49E+01	3.38E+02	WB	292.	88.7	4.66E-06
18E	4.6	196	9	13: 0	1.84E+02	8.21E+00	1.84E+02	WB	408.	111.	2.52E-06
17E	6.0	196	9	13: 0	1.20E+02	5.42E+00	1.20E+02	WB	518.	130.	1.65E-06
16E	7.4	198	9	13: 0	9.16E+01	4.16E+00	9.16E+01	WB	624.	147.	1.28E-06
15E	8.7	199	9	13: 0	6.97E+01	3.20E+00	6.97E+01	WB	726.	162.	1.03E-06
14E	11.4	202	9	13: 0	4.09E+01	1.90E+00	4.09E+01	WB	922.	188.	6.97E-07
13E	12.8	203	9	13: 0	2.28E+01	1.07E+00	2.28E+01	WB	1027	201.	5.51E-07
12E	14.3	203	9	13: 0	4.76E+00	2.25E+01	2.25E+01	TH	1137	214.	4.42E-07
11E	16.0	203	9	13: 0	1.03E-01	2.94E-01	2.94E-01	TH	1254	227.	3.57E-07
10E	17.7	203	9	13: 0	8.15E-02	2.35E-01	2.35E-01	TH	1376	241.	2.93E-07
9E	19.4	202	9	13: 0	6.97E-02	2.02E-01	2.02E-01	TH	1497	253.	2.64E-07
8E	21.1	202	9	13: 0	5.83E-02	1.70E-01	1.70E-01	TH	1617	265.	2.33E-07
7E	22.8	202	9	13: 0	4.86E-02	1.43E-01	1.43E-01	TH	1734	276.	2.10E-07
6E	24.5	201	9	13: 0	4.05E-02	1.20E-01	1.20E-01	TH	1851	287.	1.92E-07
5E	26.2	201	9	13: 0	3.18E-02	9.49E-02	9.49E-02	TH	1968	297.	1.73E-07
4E	27.9	200	9	13: 0	2.38E-02	7.17E-02	7.17E-02	TH	2085	308.	1.57E-07
3E	29.6	200	9	13: 0	1.63E-02	4.93E-02	4.93E-02	TH	2203	318.	1.43E-07
2E	31.3	200	9	13: 0	4.49E-03	1.36E-02	1.36E-02	TH	2322	327.	1.32E-07
1E	40.0	199	9	15:38	3.16E-03	9.61E-03	9.61E-03	TH	2913	0.0	9.31E-08
1E	50.0	198	9	18:39	2.29E-03	6.97E-03	6.97E-03	TH	3586	0.0	6.75E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 13:05
ELEV: 3.3 MPH FROM 016 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 13:00

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON
5. ALL ON	
6. ALL OFF	
7. EXIT	

JNTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 13:19
STABILITY CLASS D

DATE: 83/01/19
ELEV: 2.5 MPH FROM 017 DEG

CURRENT PLUME INFORMATION AS OF 13:15 ON 83/01/19

PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
2[illegible]G	.6	197	9	13:15	3.47E-14	3.85E-12	3.85E-12	TH	75.0	34.2	1.12E-04
2[illegible]G	SB	197	9	13:19	2.47E-14	2.74E-12	2.74E-12	TH	91.5	0.0	8.02E-05
20G	1.4	197	9	13:15	9.57E-15	1.06E-12	1.06E-12	TH	132.	51.5	3.14E-05
19G	2.5	196	9	13:15	3.60E-15	3.99E-13	3.99E-13	TH	205.	70.0	1.19E-05
18G	3.7	196	9	13:15	1.63E-15	1.81E-13	1.81E-13	TH	291.	89.1	5.50E-06
17G	5.2	196	9	13:15	8.42E-16	9.35E-14	9.35E-14	TH	390.	108.	2.88E-06
16G	6.6	197	9	13:15	5.55E-16	6.16E-14	6.16E-14	TH	503.	128.	1.93E-06
15G	8.0	198	9	13:15	4.04E-16	4.49E-14	4.49E-14	TH	611.	145.	1.42E-06
14G	9.3	199	9	13:15	3.13E-16	3.48E-14	3.48E-14	TH	716.	161.	1.12E-06
13G	12.0	202	9	13:15	2.53E-16	2.81E-14	2.81E-14	TH	816.	175.	9.27E-07
12G	13.4	203	9	13:15	1.63E-16	1.81E-14	1.81E-14	TH	1012	200.	6.09E-07
11G	14.9	203	9	13:15	1.28E-16	1.43E-14	1.43E-14	TH	1115	212.	4.88E-07
10G	16.6	203	9	13:15	1.01E-16	1.13E-14	1.13E-14	TH	1225	224.	3.94E-07
9G	18.3	203	9	13:15	8.14E-17	9.04E-15	9.04E-15	TH	1341	237.	3.22E-07
8G	20.0	202	9	13:15	6.97E-17	7.74E-15	7.74E-15	TH	1463	250.	2.82E-07
7G	21.7	202	9	13:15	6.05E-17	6.72E-15	6.72E-15	TH	1583	262.	2.51E-07
6G	23.4	201	9	13:15	5.29E-17	5.87E-15	5.87E-15	TH	1702	273.	2.25E-07
5G	25.1	201	9	13:15	4.67E-17	5.19E-15	5.19E-15	TH	1820	284.	2.04E-07
4G	26.8	201	9	13:15	4.07E-17	4.52E-15	4.52E-15	TH	1936	295.	1.83E-07
	28.5	200	9	13:15	3.58E-17	3.97E-15	3.97E-15	TH	2052	305.	1.66E-07
2G	30.2	200	9	13:15	3.14E-17	3.48E-15	3.48E-15	TH	2170	315.	1.51E-07
1G	31.9	200	9	13:15	2.77E-17	3.07E-15	3.07E-15	TH	2287	325.	1.38E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 13:19
ELEV: 2.5 MPH FROM 017 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 13:15 ON 83/01/19
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.11*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
21E	.6	197	9	13:15	6.88E+01	3.08E+00	6.88E+01	WB	74.2	32.5	1.01E-06
21E	SB	197	9	13:19	1.71E+02	7.68E+00	1.71E+02	WB	90.9	0.0	2.60E-06
20E	1.4	197	9	13:15	3.26E+02	1.47E+01	3.26E+02	WB	151.	55.6	4.86E-06
19E	2.5	196	9	13:15	3.21E+02	1.47E+01	3.21E+02	WB	240.	77.4	4.73E-06
18E	3.7	196	9	13:15	2.54E+02	1.17E+01	2.54E+02	WB	341.	98.8	3.69E-06
17E	5.2	196	9	13:15	1.36E+02	6.35E+00	1.36E+02	WB	456.	119.	1.96E-06
16E	6.6	197	9	13:15	9.90E+01	4.67E+00	9.90E+01	WB	565.	138.	1.42E-06
15E	8.0	198	9	13:15	7.79E+01	3.71E+00	7.79E+01	WB	670.	154.	1.14E-06
14E	9.3	199	9	13:15	6.01E+01	2.90E+00	6.01E+01	WB	771.	168.	9.41E-07
13E	12.0	202	9	13:15	3.62E+01	1.76E+00	3.62E+01	WB	967.	194.	6.49E-07
12E	13.4	203	9	13:15	2.03E+01	1.00E+00	2.03E+01	WB	1071	206.	5.17E-07
11E	14.9	203	9	13:15	4.26E+00	2.11E+01	2.11E+01	TH	1181	219.	4.17E-07
10E	16.6	203	9	13:15	9.27E-02	2.78E-01	2.78E-01	TH	1297	232.	3.39E-07
9E	18.3	203	9	13:15	7.38E-02	2.23E-01	2.23E-01	TH	1420	245.	2.79E-07
8E	20.0	202	9	13:15	6.24E-02	1.90E-01	1.90E-01	TH	1540	257.	2.49E-07
7E	21.7	202	9	13:15	5.31E-02	1.63E-01	1.63E-01	TH	1659	269.	2.24E-07
6E	23.4	201	9	13:15	4.44E-02	1.37E-01	1.37E-01	TH	1777	280.	2.03E-07
5E	25.1	201	9	13:15	3.71E-02	1.15E-01	1.15E-01	TH	1893	291.	1.86E-07
4E	26.8	201	9	13:15	2.92E-02	9.15E-02	9.15E-02	TH	2010	301.	1.67E-07
3E	28.5	200	9	13:15	2.19E-02	6.93E-02	6.93E-02	TH	2127	311.	1.52E-07
2E	30.2	200	9	13:15	1.51E-02	4.81E-02	4.81E-02	TH	2245	321.	1.40E-07
1E	31.9	200	9	13:15	4.14E-03	1.32E-02	1.32E-02	TH	2364	331.	1.28E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 13:20
ELEV: 2.5 MPH FROM 017 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 13:15 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19										
21G	.6	197	9	13:15	3.47E-14	3.85E-12	3.85E-12	TH	75.0	34.2	1.12E-04
21G	SB	197	9	13:19	2.47E-14	2.74E-12	2.74E-12	TH	91.5	0.0	8.02E-05
20G	1.4	197	9	13:15	9.57E-15	1.06E-12	1.06E-12	TH	132.	51.5	3.14E-05
19G	2.5	196	9	13:15	3.60E-15	3.99E-13	3.99E-13	TH	205.	70.0	1.19E-05
18G	3.7	196	9	13:15	1.63E-15	1.81E-13	1.81E-13	TH	291.	89.1	5.50E-06
17G	5.2	196	9	13:15	8.42E-16	9.35E-14	9.35E-14	TH	390.	108.	2.88E-06
16G	6.6	197	9	13:15	5.55E-16	6.16E-14	6.16E-14	TH	503.	129.	1.93E-06
15G	8.0	198	9	13:15	4.04E-16	4.49E-14	4.49E-14	TH	611.	145.	1.42E-06
14G	9.3	199	9	13:15	3.13E-16	3.48E-14	3.48E-14	TH	716.	161.	1.12E-06
13G	12.0	202	9	13:15	2.53E-16	2.81E-14	2.81E-14	TH	816.	175.	9.27E-07
12G	13.4	203	9	13:15	1.63E-16	1.81E-14	1.81E-14	TH	1012	200.	6.09E-07
11G	14.9	203	9	13:15	1.28E-16	1.43E-14	1.43E-14	TH	1115	212.	4.88E-07
10G	16.6	203	9	13:15	1.01E-16	1.13E-14	1.13E-14	TH	1225	224.	3.94E-07
9G	18.3	203	9	13:15	8.14E-17	9.04E-15	9.04E-15	TH	1341	237.	3.22E-07
8G	20.0	202	9	13:15	6.97E-17	7.74E-15	7.74E-15	TH	1463	250.	2.82E-07
7G	21.7	202	9	13:15	6.05E-17	6.72E-15	6.72E-15	TH	1583	262.	2.51E-07
6G	23.4	201	9	13:15	5.29E-17	5.87E-15	5.87E-15	TH	1702	273.	2.25E-07
5G	25.1	201	9	13:15	4.67E-17	5.19E-15	5.19E-15	TH	1820	284.	2.04E-07
4G	26.8	201	9	13:15	4.07E-17	4.52E-15	4.52E-15	TH	1936	295.	1.83E-07
3G	28.5	200	9	13:15	3.58E-17	3.97E-15	3.97E-15	TH	2052	305.	1.66E-07
2G	30.2	200	9	13:15	3.14E-17	3.48E-15	3.48E-15	TH	2170	315.	1.51E-07
1G	31.9	200	9	13:15	2.77E-17	3.07E-15	3.07E-15	TH	2287	325.	1.38E-07
1G	40.0	199	9	16:32	1.97E-17	2.19E-15	2.19E-15	TH	2838	0.0	9.84E-08
1G	50.0	199	9	20:36	1.41E-17	1.57E-15	1.57E-15	TH	3511	0.0	7.06E-08

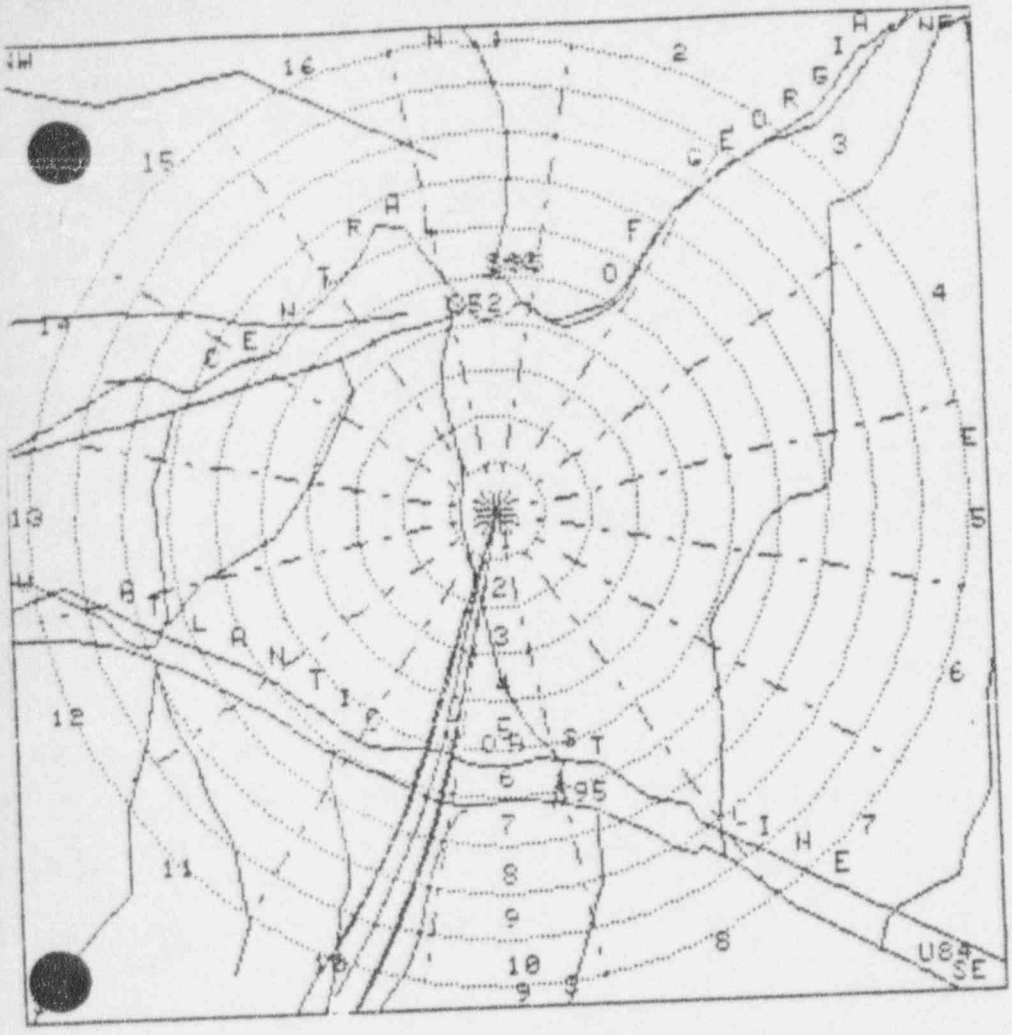
ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 13:20
STABILITY CLASS D

DATE: 83/01/19
2.5 MPH FROM 017 DEG

CURRENT PLUME INFORMATION AS OF 13:15 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
21E	.6	197	9	13:15	6.88E+01	3.08E+00	6.88E+01	WB	74.2	32.5	1.04E-06
21E	SB	197	9	13:19	1.71E+02	7.68E+00	1.71E+02	WB	90.8	0.0	2.60E-06
20E	1.4	197	9	13:15	3.26E+02	1.47E+01	3.26E+02	WB	151.	55.6	4.86E-06
19E	2.5	196	9	13:15	3.21E+02	1.47E+01	3.21E+02	WB	240.	77.4	4.73E-06
18E	3.7	196	9	13:15	2.54E+02	1.17E+01	2.54E+02	WB	341.	98.8	3.69E-06
17E	5.2	196	9	13:15	1.36E+02	6.35E+00	1.36E+02	WB	456.	119.	1.96E-06
16E	6.6	197	9	13:15	9.90E+01	4.67E+00	9.90E+01	WB	565.	138.	1.42E-06
15E	8.0	198	9	13:15	7.79E+01	3.71E+00	7.79E+01	WB	670.	154.	1.14E-06
14E	9.3	199	9	13:15	6.01E+01	2.90E+00	6.01E+01	WB	771.	168.	9.41E-07
13E	12.0	202	9	13:15	3.62E+01	1.76E+00	3.62E+01	WB	967.	194.	6.49E-07
12E	13.4	203	9	13:15	2.03E+01	1.00E+00	2.03E+01	WB	1071	206.	5.17E-07
11E	14.9	203	9	13:15	4.26E+00	2.11E+01	2.11E+01	TH	1181	219.	4.17E-07
10E	16.6	203	9	13:15	9.27E-02	2.78E-01	2.78E-01	TH	1297	232.	3.39E-07
9E	18.3	203	9	13:15	7.38E-02	2.23E-01	2.23E-01	TH	1420	245.	2.79E-07
8E	20.0	202	9	13:15	6.24E-02	1.90E-01	1.90E-01	TH	1540	257.	2.49E-07
7E	21.7	202	9	13:15	5.31E-02	1.63E-01	1.63E-01	TH	1659	269.	2.24E-07
6E	23.4	201	9	13:15	4.44E-02	1.37E-01	1.37E-01	TH	1777	280.	2.03E-07
5E	25.1	201	9	13:15	3.71E-02	1.15E-01	1.15E-01	TH	1893	291.	1.86E-07
4E	26.8	201	9	13:15	2.92E-02	9.15E-02	9.15E-02	TH	2010	301.	1.67E-07
3E	28.5	200	9	13:15	2.19E-02	6.93E-02	6.93E-02	TH	2127	311.	1.52E-07
2E	30.2	200	9	13:15	1.51E-02	4.81E-02	4.81E-02	TH	2245	321.	1.40E-07
1E	31.9	200	9	13:15	4.14E-03	1.32E-02	1.32E-02	TH	2364	331.	1.28E-07
1E	40.0	199	9	16:32	2.99E-03	9.57E-03	9.57E-03	TH	2913	0.0	9.31E-08
1E	50.0	199	9	20:36	2.17E-03	6.94E-03	6.94E-03	TH	3586	0.0	6.75E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 13:21
ELEV: 2.5 MPH FROM 017 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 13:15

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

ENTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 13:34
STABILITY CLASS D
ELEV: 3.9 MPH FROM 021 DEG
CURRENT PLUME INFORMATION AS OF 13:30 ON 83/01/19
PRESENT LOCATION

ID	MILE	DEC	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
22G	1.0	201	9	13:30	1.14E-14	1.30E-12	1.30E-12	TH	108.	44.6	3.79E-05
22C	SB	201	9	13:30	1.53E-14	1.76E-12	1.76E-12	TH	91.5	0.0	5.10E-05
21G	1.6	200	9	13:30	6.55E-15	7.51E-13	7.51E-13	TH	194.	67.5	2.20E-05
20C	2.4	199	9	13:30	3.22E-15	3.69E-13	3.69E-13	TH	246.	79.5	1.09E-05
19G	3.4	198	9	13:30	1.69E-15	1.94E-13	1.94E-13	TH	314.	93.8	5.84E-06
18C	4.7	197	9	13:30	9.39E-16	1.07E-13	1.07E-13	TH	396.	109.	3.28E-06
17G	6.1	197	9	13:30	5.52E-16	6.33E-14	6.33E-14	TH	493.	126.	1.96E-06
16G	7.6	197	9	13:30	3.97E-16	4.55E-14	4.55E-14	TH	603.	144.	1.43E-06
15G	9.0	198	9	13:30	3.05E-16	3.50E-14	3.50E-14	TH	710.	160.	1.11E-06
14C	10.3	199	9	13:30	2.46E-16	2.82E-14	2.82E-14	TH	813.	174.	9.15E-07
13G	12.9	202	9	13:30	2.04E-16	2.34E-14	2.34E-14	TH	943.	187.	7.73E-07
12C	14.4	203	9	13:30	1.36E-16	1.56E-14	1.56E-14	TH	1107	211.	5.27E-07
11G	15.9	203	9	13:30	1.09E-16	1.25E-14	1.25E-14	TH	1209	223.	4.29E-07
10C	17.5	203	9	13:30	8.73E-17	1.00E-14	1.00E-14	TH	1318	235.	3.50E-07
9G	19.3	203	9	13:30	7.06E-17	8.09E-15	8.09E-15	TH	1434	247.	2.89E-07
8C	21.0	202	9	13:30	6.10E-17	6.99E-15	6.99E-15	TH	1555	259.	2.56E-07
7G	22.7	202	9	13:30	5.34E-17	6.12E-15	6.12E-15	TH	1675	271.	2.29E-07
6C	24.4	201	9	13:30	4.70E-17	5.38E-15	5.38E-15	TH	1794	282.	2.07E-07
5G	26.1	201	9	13:30	4.17E-17	4.78E-15	4.78E-15	TH	1911	293.	1.89E-07
	27.7	201	9	13:30	3.66E-17	4.19E-15	4.19E-15	TH	2027	303.	1.71E-07
3G	29.4	200	9	13:30	3.22E-17	3.69E-15	3.69E-15	TH	2143	313.	1.55E-07
2C	31.1	200	9	13:30	2.84E-17	3.25E-15	3.25E-15	TH	2260	323.	1.41E-07
1G	32.9	200	9	13:30	2.51E-17	2.88E-15	2.88E-15	TH	2378	332.	1.29E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 13:34
ELEV: 3.9 MPH FROM 021 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 13:30 ON 83/01/19
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
22E	1.0	201	9	13:30	6.15E+02	2.86E+01	6.15E+02	WB	108.	43.3	1.00E-05
23E	SB	201	9	13:30	1.98E+02	9.24E+00	1.98E+02	WB	90.8	0.0	3.24E-06
21E	1.6	200	9	13:30	2.24E+02	1.05E+01	2.24E+02	WB	163.	58.9	3.58E-06
20E	2.4	199	9	13:30	3.16E+02	1.50E+01	3.16E+02	WB	234.	76.1	4.97E-06
19E	3.4	198	9	13:30	3.02E+02	1.45E+01	3.02E+02	WB	319.	94.3	4.69E-06
18E	4.7	197	9	13:30	1.85E+02	8.98E+00	1.85E+02	WB	418.	113.	2.83E-06
17E	6.1	197	9	13:30	1.01E+02	4.96E+00	1.01E+02	WB	530.	132.	1.53E-06
16E	7.6	197	9	13:30	8.00E+01	3.96E+00	8.00E+01	WB	638.	149.	1.21E-06
15E	9.0	198	9	13:30	6.31E+01	3.16E+00	6.31E+01	WB	742.	164.	9.80E-07
14E	10.3	199	9	13:30	4.75E+01	2.40E+00	4.75E+01	WB	842.	178.	7.83E-07
13E	12.9	202	9	13:30	3.09E+01	1.58E+00	3.09E+01	WB	1037	202.	5.83E-07
12E	14.4	203	9	13:30	1.75E+01	9.09E-01	1.75E+01	WB	1141	215.	4.69E-07
11E	15.9	203	9	13:30	3.71E+00	1.93E+01	1.93E+01	TH	1250	227.	3.83E-07
10E	17.5	203	9	13:30	8.14E-02	2.56E-01	2.56E-01	TH	1366	239.	3.13E-07
9E	19.3	203	9	13:30	6.52E-02	2.07E-01	2.07E-01	TH	1488	252.	2.60E-07
8E	21.0	202	9	13:30	5.54E-02	1.77E-01	1.77E-01	TH	1608	264.	2.33E-07
7E	22.7	202	9	13:30	4.74E-02	1.52E-01	1.52E-01	TH	1727	275.	2.11E-07
6E	24.4	201	9	13:30	3.98E-02	1.29E-01	1.29E-01	TH	1844	286.	1.91E-07
5E	26.1	201	9	13:30	3.34E-02	1.09E-01	1.09E-01	TH	1960	297.	1.76E-07
4E	27.7	201	9	13:30	2.64E-02	8.67E-02	8.67E-02	TH	2077	307.	1.59E-07
3E	29.4	200	9	13:30	1.99E-02	6.58E-02	6.58E-02	TH	2194	317.	1.45E-07
2E	31.1	200	9	13:30	1.37E-02	4.58E-02	4.58E-02	TH	2311	327.	1.34E-07
1E	32.9	200	9	13:30	3.77E-03	1.26E-02	1.26E-02	TH	2430	336.	1.23E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 13:34
ELEV: 3.9 MPH FROM 021 DEG STABILITY CLASS D
CURRENT PLUME INFORMATION AS OF 13:30 ON 83/01/19
ABBREVIATED PROJECTION

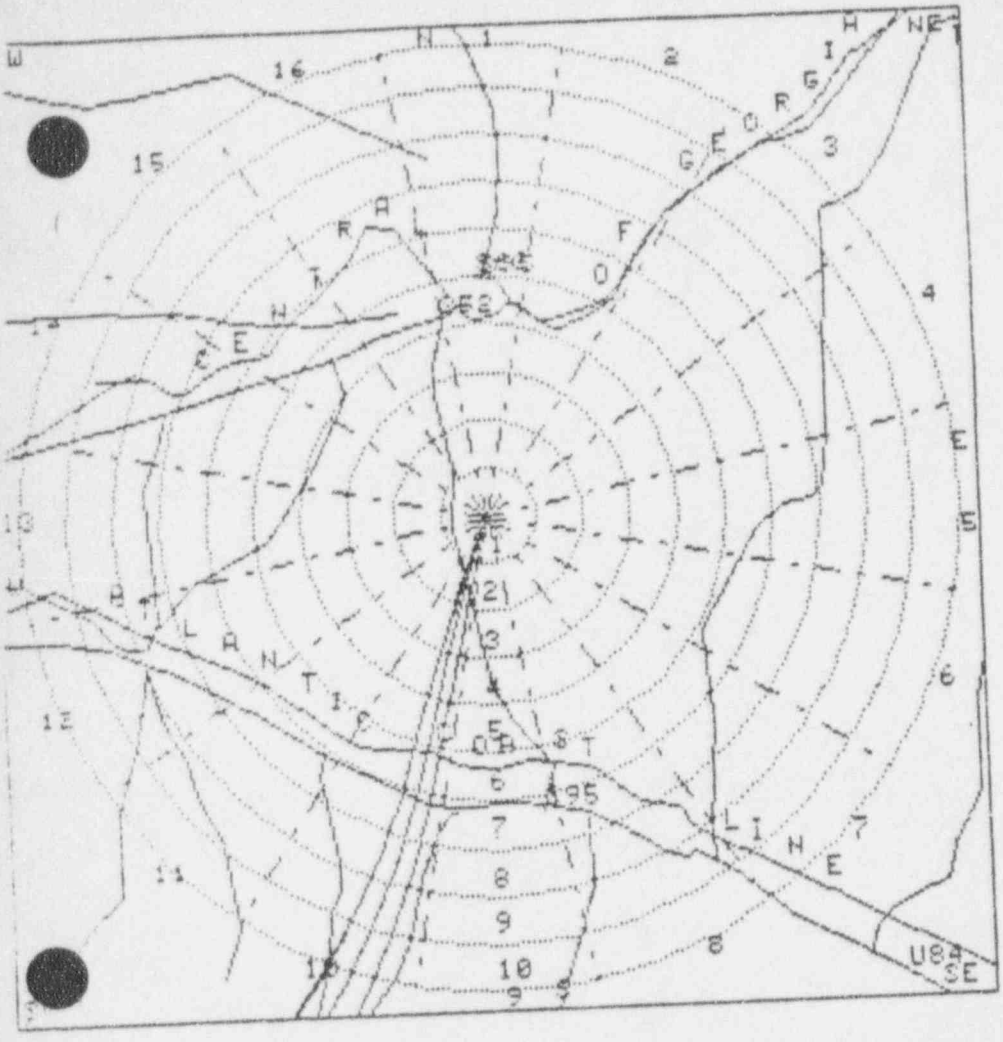
ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
2[illegible]G	1.0	201	9	13:30	1.14E-14	1.30E-12	1.30E-12	TH	108.	44.6	3.79E-05
2[illegible]G	SB	201	9	13:30	1.53E-14	1.76E-12	1.76E-12	TH	91.5	0.0	5.10E-05
2[illegible]G	1.6	200	9	13:30	6.55E-15	7.51E-13	7.51E-13	TH	194.	67.5	2.20E-05
2[illegible]G	2.4	199	9	13:30	3.22E-15	3.69E-13	3.69E-13	TH	246.	79.5	1.09E-05
1[illegible]G	3.4	198	9	13:30	1.69E-15	1.94E-13	1.94E-13	TH	314.	93.8	5.84E-06
1[illegible]G	4.7	197	9	13:30	9.39E-16	1.07E-13	1.07E-13	TH	396.	109.	3.28E-06
1[illegible]G	6.1	197	9	13:30	5.52E-16	6.33E-14	6.33E-14	TH	493.	126.	1.96E-06
1[illegible]G	7.6	197	9	13:30	3.97E-16	4.55E-14	4.55E-14	TH	603.	144.	1.43E-06
1[illegible]G	9.0	198	9	13:30	3.05E-16	3.50E-14	3.50E-14	TH	710.	160.	1.11E-06
1[illegible]G	10.3	199	9	13:30	2.46E-16	2.82E-14	2.82E-14	TH	813.	174.	9.15E-07
1[illegible]G	12.9	202	9	13:30	2.04E-16	2.34E-14	2.34E-14	TH	913.	187.	7.73E-07
12G	14.4	203	9	13:30	1.36E-16	1.56E-14	1.56E-14	TH	1107	211.	5.27E-07
11G	15.9	203	9	13:30	1.09E-16	1.25E-14	1.25E-14	TH	1209	223.	4.29E-07
10G	17.5	203	9	13:30	8.73E-17	1.00E-14	1.00E-14	TH	1319	235.	3.50E-07
9G	19.3	203	9	13:30	7.06E-17	8.09E-15	8.09E-15	TH	1434	247.	2.89E-07
8G	21.0	202	9	13:30	6.10E-17	6.99E-15	6.99E-15	TH	1555	259.	2.56E-07
7G	22.7	202	9	13:30	5.34E-17	6.12E-15	6.12E-15	TH	1675	271.	2.29E-07
6G	24.4	201	9	13:30	4.70E-17	5.38E-15	5.38E-15	TH	1794	282.	2.07E-07
[illegible]G	26.1	201	9	13:30	4.17E-17	4.78E-15	4.78E-15	TH	1911	293.	1.89E-07
[illegible]	27.7	201	9	13:30	3.66E-17	4.19E-15	4.19E-15	TH	2027	303.	1.71E-07
3G	29.4	200	9	13:30	3.22E-17	3.69E-15	3.69E-15	TH	2143	313.	1.55E-07
2G	31.1	200	9	13:30	2.84E-17	3.25E-15	3.25E-15	TH	2260	323.	1.41E-07
1G	32.9	200	9	13:30	2.51E-17	2.88E-15	2.88E-15	TH	2378	332.	1.29E-07
1G	40.0	200	9	15:20	1.88E-17	2.15E-15	2.15E-15	TH	2861	0.0	9.71E-08
1G	50.0	200	9	17:56	1.35E-17	1.55E-15	1.55E-15	TH	3535	0.0	6.98E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 13:35
ELEV: 3.9 MPH FROM 021 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 13:30 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN 2.14*SIGMA DOSE RATE	ID	Y	Z	CHI/Q
JULIAN DAY = 19											
2E	1.0	201	9	13:30	6.15E+02	2.86E+01	6.15E+02	WB	108.	43.3	1.00E-05
2E	SB	201	9	13:30	1.98E+02	9.21E+00	1.98E+02	WB	90.8	0.0	3.24E-06
2E	1.6	200	9	13:30	2.24E+02	1.05E+01	2.24E+02	WB	163.	58.9	3.58E-06
2E	2.4	199	9	13:30	3.16E+02	1.50E+01	3.16E+02	WB	231.	76.1	4.97E-06
2E	3.4	198	9	13:30	3.02E+02	1.45E+01	3.02E+02	WB	319.	94.3	4.69E-06
1E	4.7	197	9	13:30	1.85E+02	8.98E+00	1.85E+02	WB	418.	113.	2.83E-06
1E	6.1	197	9	13:30	1.01E+02	4.96E+00	1.01E+02	WB	530.	132.	1.53E-06
1E	7.6	197	9	13:30	8.00E+01	3.96E+00	8.00E+01	WB	638.	149.	1.21E-06
1E	9.0	198	9	13:30	6.31E+01	3.16E+00	6.31E+01	WB	742.	164.	9.80E-07
1E	10.3	199	9	13:30	4.75E+01	2.40E+00	4.75E+01	WB	842.	178.	7.83E-07
1E	12.9	202	9	13:30	3.09E+01	1.58E+00	3.09E+01	WB	1037	202.	5.83E-07
12E	14.4	203	9	13:30	1.75E+01	9.09E-01	1.75E+01	WB	1141	215.	4.69E-07
11E	15.9	203	9	13:30	3.71E+00	1.93E+01	1.93E+01	TH	1250	227.	3.83E-07
10E	17.5	203	9	13:30	8.14E-02	2.56E-01	2.56E-01	TH	1366	239.	3.13E-07
9E	19.3	203	9	13:30	6.52E-02	2.07E-01	2.07E-01	TH	1488	252.	2.60E-07
8E	21.0	202	9	13:30	5.54E-02	1.77E-01	1.77E-01	TH	1608	264.	2.33E-07
7E	22.7	202	9	13:30	4.74E-02	1.52E-01	1.52E-01	TH	1727	275.	2.11E-07
6E	24.4	201	9	13:30	3.98E-02	1.29E-01	1.29E-01	TH	1844	286.	1.91E-07
5E	26.1	201	9	13:30	3.34E-02	1.09E-01	1.09E-01	TH	1960	297.	1.76E-07
4E	27.7	201	9	13:30	2.64E-02	8.67E-02	8.67E-02	TH	2077	307.	1.59E-07
3E	29.4	200	9	13:30	1.99E-02	6.58E-02	6.58E-02	TH	2194	317.	1.45E-07
2E	31.1	200	9	13:30	1.37E-02	4.58E-02	4.58E-02	TH	2311	327.	1.34E-07
1E	32.9	200	9	13:30	3.77E-03	1.26E-02	1.26E-02	TH	2430	336.	1.23E-07
1E	40.0	200	9	15:20	2.84E-03	9.53E-03	9.53E-03	TH	2913	0.0	9.31E-08
1E	50.0	200	9	17:56	2.06E-03	6.91E-03	6.91E-03	TH	3586	0.0	6.75E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 13:36
ELEV: 3.9 MPH FROM 021 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 13:30

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

ENTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 13:49
STABILITY CLASS D

DATE: 83/01/19
ELEV: 4.0 MPH FROM 025 DEG

CURRENT PLUME INFORMATION AS OF 13:45 ON 83/01/19

PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
23C	1.0	206	9	13:45	1.01E-14	1.19E-12	1.19E-12	TH	112.	45.7	3.44E-05
23C	SB	206	9	13:45	1.44E-14	1.70E-12	1.70E-12	TH	91.5	0.0	4.90E-05
22C	2.0	203	9	13:45	3.84E-15	4.54E-13	4.54E-13	TH	201.	69.1	1.32E-05
21C	2.6	202	9	13:45	3.38E-15	3.99E-13	3.99E-13	TH	281.	87.1	1.17E-05
20C	3.4	201	9	13:45	1.89E-15	2.23E-13	2.23E-13	TH	331.	97.3	6.66E-06
19C	4.4	200	9	13:45	1.10E-15	1.30E-13	1.30E-13	TH	397.	109.	3.94E-06
18C	5.7	199	9	13:45	6.65E-16	7.86E-14	7.86E-14	TH	477.	124.	2.40E-06
17C	7.1	198	9	13:45	4.16E-16	4.92E-14	4.92E-14	TH	572.	139.	1.53E-06
16C	8.6	198	9	13:45	3.14E-16	3.71E-14	3.71E-14	TH	681.	156.	1.17E-06
15C	10.0	199	9	13:45	2.49E-16	2.95E-14	2.95E-14	TH	787.	171.	9.45E-07
14C	11.3	200	9	13:45	2.05E-16	2.42E-14	2.42E-14	TH	889.	184.	7.91E-07
13C	13.9	202	9	13:45	1.73E-16	2.05E-14	2.05E-14	TH	988.	197.	6.80E-07
12C	15.4	203	9	13:45	1.19E-16	1.40E-14	1.40E-14	TH	1181	219.	4.75E-07
11C	16.9	203	9	13:45	9.58E-17	1.13E-14	1.13E-14	TH	1284	231.	3.89E-07
10C	18.6	203	9	13:45	7.73E-17	9.14E-15	9.14E-15	TH	1392	242.	3.21E-07
9C	20.3	203	9	13:45	6.30E-17	7.44E-15	7.44E-15	TH	1507	254.	2.67E-07
8C	22.0	202	9	13:45	5.48E-17	6.47E-15	6.47E-15	TH	1628	266.	2.38E-07
7C	23.7	202	9	13:45	4.82E-17	5.70E-15	5.70E-15	TH	1748	278.	2.14E-07
6C	25.4	202	9	13:45	4.26E-17	5.04E-15	5.04E-15	TH	1866	289.	1.94E-07
5C	27.1	201	9	13:45	3.80E-17	4.49E-15	4.49E-15	TH	1983	299.	1.78E-07
4C	28.7	201	9	13:45	3.34E-17	3.95E-15	3.95E-15	TH	2099	309.	1.61E-07
3C	30.4	201	9	13:45	2.96E-17	3.49E-15	3.49E-15	TH	2215	319.	1.47E-07
2C	32.1	200	9	13:45	2.61E-17	3.09E-15	3.09E-15	TH	2331	328.	1.34E-07
1C	33.9	200	9	13:45	2.32E-17	2.74E-15	2.74E-15	TH	2449	338.	1.24E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 13:49
STABILITY CLASS D
ELEV: 4.0 MPH FROM 025 DEG

CURRENT PLUME INFORMATION AS OF 13:45 ON 83/01/19

PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
23E	1.0	206	9	13:45	2.50E+02	1.21E+01	2.50E+02	WB	111.	44.4	4.38E-06
23E	SB	206	9	13:45	2.00E+02	9.70E+00	2.00E+02	WB	90.8	0.0	3.51E-06
22E	2.0	203	9	13:45	3.11E+02	1.51E+01	3.11E+02	WB	197.	67.4	5.35E-06
21E	2.6	202	9	13:45	2.70E+02	1.33E+01	2.70E+02	WB	249.	79.5	4.55E-06
20E	3.4	201	9	13:45	3.28E+02	1.63E+01	3.28E+02	WB	317.	93.8	5.44E-06
19E	4.4	200	9	13:45	2.24E+02	1.13E+01	2.24E+02	WB	399.	109.	3.66E-06
18E	5.7	199	9	13:45	1.25E+02	6.36E+00	1.25E+02	WB	496.	126.	2.01E-06
17E	7.1	198	9	13:45	8.06E+01	4.14E+00	8.06E+01	WB	606.	144.	1.28E-06
16E	8.6	198	9	13:45	6.40E+01	3.32E+00	6.40E+01	WB	713.	160.	1.02E-06
15E	10.0	199	9	13:45	5.17E+01	2.71E+00	5.17E+01	WB	816.	174.	8.45E-07
14E	11.3	200	9	13:45	3.98E+01	2.11E+00	3.98E+01	WB	916.	187.	6.90E-07
13E	13.9	202	9	13:45	2.65E+01	1.42E+00	2.65E+01	WB	1109	211.	5.27E-07
12E	15.4	203	9	13:45	1.51E+01	8.25E-01	1.51E+01	WB	1212	223.	4.28E-07
11E	16.9	203	9	13:45	3.20E+00	1.77E+01	1.77E+01	TH	1321	235.	3.51E-07
10E	18.6	203	9	13:45	7.15E-02	2.36E-01	2.36E-01	TH	1437	247.	2.90E-07
9E	20.3	203	9	13:45	5.67E-02	1.88E-01	1.88E-01	TH	1558	259.	2.38E-07
8E	22.0	202	9	13:45	4.93E-02	1.65E-01	1.65E-01	TH	1678	271.	2.18E-07
7E	23.7	202	9	13:45	4.24E-02	1.43E-01	1.43E-01	TH	1797	282.	1.98E-07
6E	25.4	202	9	13:45	3.57E-02	1.21E-01	1.21E-01	TH	1914	293.	1.81E-07
5E	27.1	201	9	13:45	3.01E-02	1.03E-01	1.03E-01	TH	2029	303.	1.67E-07
4E	28.7	201	9	13:45	2.38E-02	8.21E-02	8.21E-02	TH	2146	313.	1.51E-07
3E	30.4	201	9	13:45	1.81E-02	6.30E-02	6.30E-02	TH	2263	323.	1.40E-07
2E	32.1	200	9	13:45	1.25E-02	4.36E-02	4.36E-02	TH	2380	332.	1.28E-07
1E	33.9	200	9	13:45	3.43E-03	1.20E-02	1.20E-02	TH	2498	341.	1.18E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 13:50
STABILITY CLASS D

DATE: 83/01/19
ELEV: 4.0 MPH FROM 025 DEG

CURRENT PLUME INFORMATION AS OF 13:45 ON 83/01/19
ABBREVIATED PROJECTION

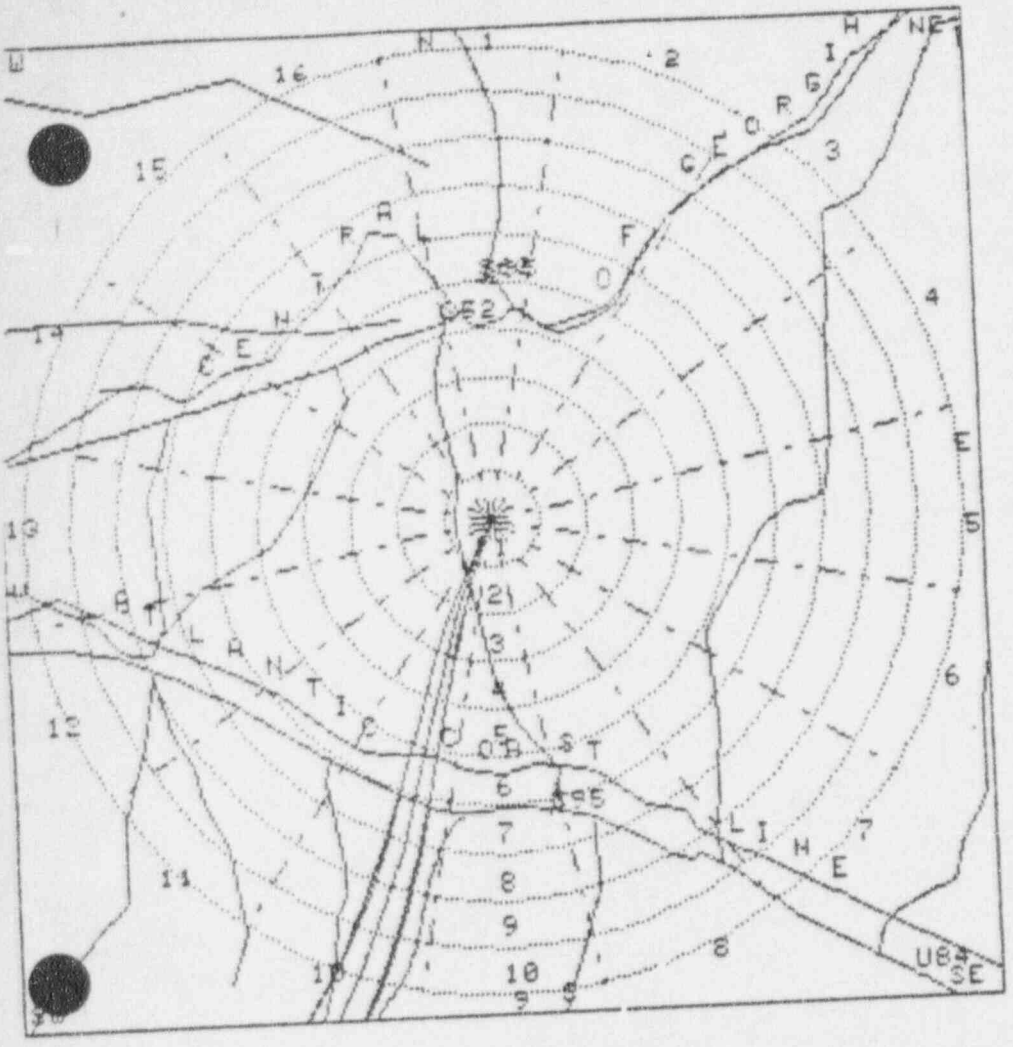
ID	MILE	DEG	SEC	JULIAN DAY = 19 TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN	2.14*SIGMA DOSE RATE ID	Y	Z	CHI/Q
23G	1.0	206	9	13:45	1.01E-14	1.19E-12	1.19E-12	TH	112.	45.7	3.44E-05
23C	SB	206	9	13:45	1.44E-14	1.70E-12	1.70E-12	TH	91.5	0.0	4.90E-05
22G	2.0	203	9	13:45	3.84E-15	4.54E-13	4.54E-13	TH	201.	69.1	1.32E-05
21C	2.6	202	9	13:45	3.38E-15	3.99E-13	3.99E-13	TH	281.	87.1	1.17E-05
20G	3.4	201	9	13:45	1.89E-15	2.23E-13	2.23E-13	TH	331.	97.3	6.66E-06
19G	4.4	200	9	13:45	1.10E-15	1.30E-13	1.30E-13	TH	397.	109.	3.94E-06
18G	5.7	199	9	13:45	6.65E-16	7.86E-14	7.86E-14	TH	477.	124.	2.40E-06
18C	7.1	198	9	13:45	4.16E-16	4.92E-14	4.92E-14	TH	572.	139.	1.53E-06
16G	8.6	198	9	13:45	3.14E-16	3.71E-14	3.71E-14	TH	681.	156.	1.17E-06
15C	10.0	199	9	13:45	2.49E-16	2.95E-14	2.95E-14	TH	787.	171.	9.45E-07
14G	11.3	200	9	13:45	2.05E-16	2.42E-14	2.42E-14	TH	889.	184.	7.91E-07
13C	13.9	202	9	13:45	1.73E-16	2.05E-14	2.05E-14	TH	988.	197.	6.80E-07
12G	15.4	203	9	13:45	1.19E-16	1.40E-14	1.40E-14	TH	1181	219.	4.75E-07
11C	16.9	203	9	13:45	9.58E-17	1.13E-14	1.13E-14	TH	1284	231.	3.89E-07
10G	18.6	203	9	13:45	7.73E-17	9.14E-15	9.14E-15	TH	1392	242.	3.21E-07
9C	20.3	203	9	13:45	6.30E-17	7.44E-15	7.44E-15	TH	1507	254.	2.67E-07
8G	22.0	202	9	13:45	5.48E-17	6.47E-15	6.47E-15	TH	1628	266.	2.38E-07
7C	23.7	202	9	13:45	4.82E-17	5.70E-15	5.70E-15	TH	1748	278.	2.14E-07
6G	25.4	202	9	13:45	4.26E-17	5.04E-15	5.04E-15	TH	1866	289.	1.94E-07
5C	27.1	201	9	13:45	3.80E-17	4.49E-15	4.49E-15	TH	1983	299.	1.78E-07
4G	28.7	201	9	13:45	3.34E-17	3.95E-15	3.95E-15	TH	2099	309.	1.61E-07
3C	30.4	201	9	13:45	2.96E-17	3.49E-15	3.49E-15	TH	2215	319.	1.47E-07
2G	32.1	200	9	13:45	2.61E-17	3.09E-15	3.09E-15	TH	2331	328.	1.34E-07
1C	33.9	200	9	13:45	2.32E-17	2.74E-15	2.74E-15	TH	2449	338.	1.24E-07
1G	40.0	201	9	15:17	1.81E-17	2.14E-15	2.14E-15	TH	2866	0.0	9.68E-08
1G	50.0	202	9	17:46	1.30E-17	1.54E-15	1.54E-15	TH	3541	0.0	6.96E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 13:50
STABILITY CLASS D

DATE: 83/01/19
ELEV: 4.0 MPH FROM 025 DEG
CURRENT PLUME INFORMATION AS OF 13:45 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
23E	1.0	206	9	13:45	2.50E+02	1.21E+01	2.50E+02	WB	111.	44.4	4.38E-06
23E	SB	206	9	13:45	2.00E+02	9.70E+00	2.00E+02	WB	90.8	0.0	3.51E-06
22E	2.0	203	9	13:45	3.11E+02	1.51E+01	3.11E+02	WB	197.	67.4	5.35E-06
21E	2.6	202	9	13:45	2.70E+02	1.33E+01	2.70E+02	WB	249.	79.5	4.55E-06
20E	3.4	201	9	13:45	3.28E+02	1.63E+01	3.28E+02	WB	317.	93.8	5.44E-06
19E	4.4	200	9	13:45	2.24E+02	1.13E+01	2.24E+02	WB	399.	109.	3.66E-06
18E	5.7	199	9	13:45	1.25E+02	6.36E+00	1.25E+02	WB	496.	126.	2.01E-06
17E	7.1	198	9	13:45	8.06E+01	4.14E+00	8.06E+01	WB	606.	144.	1.28E-06
16E	8.6	198	9	13:45	6.40E+01	3.32E+00	6.40E+01	WB	713.	160.	1.02E-06
15E	10.0	199	9	13:45	5.17E+01	2.71E+00	5.17E+01	WB	816.	174.	8.45E-07
14E	11.3	200	9	13:45	3.98E+01	2.11E+00	3.98E+01	WB	916.	187.	6.90E-07
13E	13.9	202	9	13:45	2.65E+01	1.42E+00	2.65E+01	WB	1109	211.	5.27E-07
12E	15.4	203	9	13:45	1.51E+01	8.25E-01	1.51E+01	WB	1212	223.	4.28E-07
11E	16.9	203	9	13:45	3.24E+00	1.77E+01	1.77E+01	TH	1321	235.	3.51E-07
10E	18.6	203	9	13:45	7.15E-02	2.36E-01	2.36E-01	TH	1437	247.	2.90E-07
9E	20.3	203	9	13:45	5.67E-02	1.88E-01	1.88E-01	TH	1558	259.	2.38E-07
8E	22.0	202	9	13:45	4.93E-02	1.65E-01	1.65E-01	TH	1678	271.	2.18E-07
7E	23.7	202	9	13:45	4.24E-02	1.43E-01	1.43E-01	TH	1797	282.	1.98E-07
[illegible]	25.4	202	9	13:45	3.57E-02	1.21E-01	1.21E-01	TH	1914	293.	1.81E-07
[illegible]	27.1	201	9	13:45	3.01E-02	1.03E-01	1.03E-01	TH	2029	303.	1.67E-07
4E	28.7	201	9	13:45	2.38E-02	8.21E-02	8.21E-02	TH	2146	313.	1.51E-07
3E	30.4	201	9	13:45	1.81E-02	6.30E-02	6.30E-02	TH	2263	323.	1.40E-07
2E	32.1	200	9	13:45	1.25E-02	4.36E-02	4.36E-02	TH	2380	332.	1.28E-07
1E	33.9	200	9	13:45	3.43E-03	1.20E-02	1.20E-02	TH	2498	341.	1.18E-07
1E	40.0	201	9	15:17	2.70E-03	9.49E-03	9.49E-03	TH	2915	0.0	9.30E-08
1E	50.0	202	9	17:46	1.96E-03	6.88E-03	6.88E-03	TH	3590	0.0	6.74E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 13:51
ELEV: 4.0 MPH FROM 025 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 13:45

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON
5. ALL ON	
6. ALL OFF	
7. EXIT	

JNTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 14:05
STABILITY CLASS D

DATE: 83/01/19
ELEV: 4.6 MPH FROM 029 DEG
CURRENT PLUME INFORMATION AS OF 14:00 ON 03/01/19

PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19										
24G	1.1	210	9	14: 0	7.22E-15	8.79E-13	8.79E-13	TH	125.	49.4	2.51E-05
24C	SB	210	9	14: 0	1.23E-14	1.50E-12	1.50E-12	TH	91.5	0.0	4.30E-05
23G	2.2	208	9	14: 0	2.99E-15	3.64E-13	3.64E-13	TH	224.	74.6	1.05E-05
22G	3.1	206	9	14: 0	1.81E-15	2.21E-13	2.21E-13	TH	307.	92.5	6.46E-06
21G	3.7	204	9	14: 0	1.94E-15	2.36E-13	2.36E-13	TH	384.	107.	6.99E-06
20G	4.5	203	9	14: 0	1.17E-15	1.42E-13	1.42E-13	TH	433.	116.	4.27E-06
19G	5.6	202	9	14: 0	7.36E-16	8.96E-14	8.96E-14	TH	497.	127.	2.71E-06
18G	6.8	200	9	14: 0	4.72E-16	5.75E-14	5.75E-14	TH	575.	140.	1.77E-06
17G	8.3	200	9	14: 0	3.12E-16	3.79E-14	3.79E-14	TH	669.	154.	1.18E-06
16G	9.7	199	9	14: 0	2.45E-16	2.99E-14	2.99E-14	TH	777.	169.	9.47E-07
15G	11.1	200	9	14: 0	2.01E-16	2.44E-14	2.44E-14	TH	881.	183.	7.86E-07
14G	12.4	201	9	14: 0	1.69E-16	2.05E-14	2.05E-14	TH	982.	196.	6.73E-07
13G	15.1	203	9	14: 0	1.45E-16	1.76E-14	1.76E-14	TH	1081	208.	5.88E-07
12G	16.5	203	9	14: 0	1.02E-16	1.24E-14	1.24E-14	TH	1273	230.	4.21E-07
11G	18.1	204	9	14: 0	8.30E-17	1.01E-14	1.01E-14	TH	1374	241.	3.49E-07
10G	19.7	203	9	14: 0	6.76E-17	8.23E-15	8.23E-15	TH	1483	252.	2.90E-07
9G	21.4	203	9	14: 0	5.55E-17	6.76E-15	6.76E-15	TH	1597	263.	2.43E-07
8G	23.1	203	9	14: 0	4.86E-17	5.92E-15	5.92E-15	TH	1718	275.	2.18E-07
7G	24.8	202	9	14: 0	4.31E-17	5.24E-15	5.24E-15	TH	1837	286.	1.98E-07
	26.5	202	9	14: 0	3.83E-17	4.66E-15	4.66E-15	TH	1955	296.	1.81E-07
5G	28.2	202	9	14: 0	3.43E-17	4.18E-15	4.18E-15	TH	2072	307.	1.66E-07
4G	29.9	201	9	14: 0	3.03E-17	3.69E-15	3.69E-15	TH	2187	316.	1.51E-07
3G	31.6	201	9	14: 0	2.69E-17	3.27E-15	3.27E-15	TH	2303	326.	1.38E-07
2G	33.3	201	9	14: 0	2.38E-17	2.90E-15	2.90E-15	TH	2419	335.	1.27E-07
1G	35.0	200	9	14: 0	2.12E-17	2.58E-15	2.58E-15	TH	2536	345.	1.17E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 14:05
STABILITY CLASS D

DATE: 83/01/19
WIND: 4.6 MPH FROM 029 DEG

CURRENT PLUME INFORMATION AS OF 14:00 ON 83/01/19
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
24E	1.1	210	9	14: 0	2.88E+02	1.44E+01	2.88E+02	WB	124.	48.2	5.44E-06
24E	SB	210	9	14: 0	2.30E+02	1.15E+01	2.30E+02	WB	90.8	0.0	4.35E-06
23E	2.2	208	9	14: 0	2.80E+02	1.41E+01	2.80E+02	WB	212.	71.1	5.16E-06
22E	3.1	206	9	14: 0	3.05E+02	1.56E+01	3.05E+02	WB	293.	88.9	5.52E-06
21E	3.7	204	9	14: 0	3.16E+02	1.63E+01	3.16E+02	WB	342.	98.9	5.59E-06
20E	4.5	203	9	14: 0	2.43E+02	1.26E+01	2.43E+02	WB	408.	111.	4.23E-06
19E	5.6	202	9	14: 0	1.44E+02	7.61E+00	1.44E+02	WB	488.	125.	2.47E-06
18E	6.8	200	9	14: 0	9.19E+01	4.89E+00	9.19E+01	WB	583.	140.	1.55E-06
17E	8.3	200	9	14: 0	6.24E+01	3.36E+00	6.24E+01	WB	692.	157.	1.05E-06
16E	9.7	199	9	14: 0	5.11E+01	2.78E+00	5.11E+01	WB	797.	172.	8.58E-07
15E	11.1	200	9	14: 0	4.04E+01	2.22E+00	4.04E+01	WB	899.	185.	6.95E-07
14E	12.4	201	9	14: 0	3.32E+01	1.84E+00	3.32E+01	WB	998.	198.	6.05E-07
13E	15.1	203	9	14: 0	2.26E+01	1.27E+00	2.26E+01	WB	1191	220.	4.72E-07
12E	16.5	203	9	14: 0	1.30E+01	7.44E-01	1.30E+01	WB	1293	232.	3.87E-07
11E	18.1	204	9	14: 0	2.81E+00	1.61E+01	1.61E+01	TH	1402	243.	3.21E-07
10E	19.7	203	9	14: 0	6.26E-02	2.16E-01	2.16E-01	TH	1517	255.	2.67E-07
9E	21.4	203	9	14: 0	5.00E-02	1.74E-01	1.74E-01	TH	1638	267.	2.20E-07
8E	23.1	203	9	14: 0	4.37E-02	1.53E-01	1.53E-01	TH	1758	278.	2.03E-07
7E	24.8	202	9	14: 0	3.77E-02	1.33E-01	1.33E-01	TH	1876	289.	1.85E-07
6E	26.5	202	9	14: 0	3.19E-02	1.13E-01	1.13E-01	TH	1993	300.	1.70E-07
5E	28.2	202	9	14: 0	2.70E-02	9.68E-02	9.68E-02	TH	2108	310.	1.57E-07
4E	29.9	201	9	14: 0	2.14E-02	7.74E-02	7.74E-02	TH	2224	319.	1.43E-07
3E	31.6	201	9	14: 0	1.64E-02	5.95E-02	5.95E-02	TH	2341	329.	1.32E-07
2E	33.3	201	9	14: 0	1.13E-02	4.13E-02	4.13E-02	TH	2458	338.	1.22E-07
1E	35.0	200	9	14: 0	3.11E-03	1.14E-02	1.14E-02	TH	2576	348.	1.12E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 14:06
ELEV: 4.6 MPH FROM 029 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 14:00 ON 83/01/19
ABBREVIATED PROJECTION

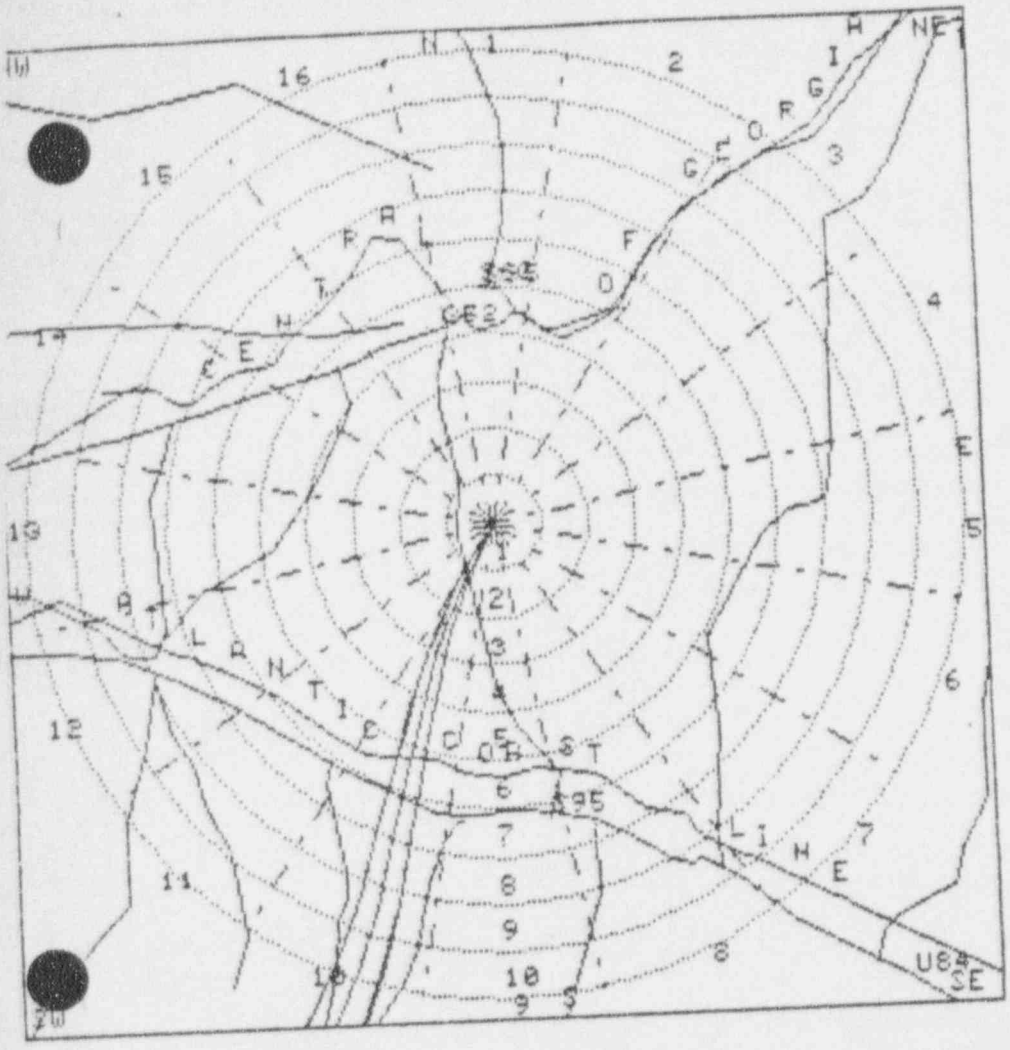
ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	Y	Z	2.14*SIGMA CHI/Q
JULIAN DAY = 19											
24G	1.1	210	9	14: 0	7.22E-15	8.79E-13	8.79E-13	TH	125.	49.4	2.51E-05
24C	SB	210	9	14: 0	1.23E-14	1.50E-12	1.50E-12	TH	91.5	0.0	4.30E-05
23G	2.2	208	9	14: 0	2.99E-15	3.64E-13	3.64E-13	TH	224.	74.6	1.05E-05
22G	3.1	206	9	14: 0	1.81E-15	2.21E-13	2.21E-13	TH	307.	92.5	6.46E-06
21G	3.7	204	9	14: 0	1.94E-15	2.36E-13	2.36E-13	TH	384.	107.	6.99E-06
20G	4.5	203	9	14: 0	1.17E-15	1.42E-13	1.42E-13	TH	433.	116.	4.27E-06
19G	5.6	202	9	14: 0	7.36E-16	8.96E-14	8.96E-14	TH	497.	127.	2.71E-06
18G	6.8	200	9	14: 0	4.72E-16	5.75E-14	5.75E-14	TH	575.	140.	1.77E-06
17G	8.3	200	9	14: 0	3.12E-16	3.79E-14	3.79E-14	TH	669.	154.	1.18E-06
16G	9.7	199	9	14: 0	2.45E-16	2.99E-14	2.99E-14	TH	777.	169.	9.47E-07
15G	11.1	200	9	14: 0	2.01E-16	2.44E-14	2.44E-14	TH	881.	183.	7.86E-07
14G	12.4	201	9	14: 0	1.69E-16	2.05E-14	2.05E-14	TH	982.	196.	6.73E-07
13G	15.1	203	9	14: 0	1.45E-16	1.76E-14	1.76E-14	TH	1081	208.	5.88E-07
12G	16.5	203	9	14: 0	1.02E-16	1.24E-14	1.24E-14	TH	1273	230.	4.21E-07
11G	18.1	204	9	14: 0	8.30E-17	1.01E-14	1.01E-14	TH	1374	241.	3.49E-07
10G	19.7	203	9	14: 0	6.76E-17	8.23E-15	8.23E-15	TH	1483	252.	2.90E-07
9G	21.4	203	9	14: 0	5.55E-17	6.76E-15	6.76E-15	TH	1597	263.	2.43E-07
8G	23.1	203	9	14: 0	4.86E-17	5.92E-15	5.92E-15	TH	1718	275.	2.18E-07
7G	24.8	202	9	14: 0	4.31E-17	5.24E-15	5.24E-15	TH	1837	286.	1.98E-07
6G	26.5	202	9	14: 0	3.83E-17	4.66E-15	4.66E-15	TH	1955	296.	1.81E-07
5G	28.2	202	9	14: 0	3.43E-17	4.18E-15	4.18E-15	TH	2072	307.	1.66E-07
4G	29.9	201	9	14: 0	3.03E-17	3.69E-15	3.69E-15	TH	2187	316.	1.51E-07
3G	31.6	201	9	14: 0	2.69E-17	3.27E-15	3.27E-15	TH	2303	326.	1.38E-07
2G	33.3	201	9	14: 0	2.38E-17	2.90E-15	2.90E-15	TH	2419	335.	1.27E-07
1G	35.0	200	9	14: 0	2.12E-17	2.58E-15	2.58E-15	TH	2536	345.	1.17E-07
1G	40.0	201	9	15: 6	1.74E-17	2.12E-15	2.12E-15	TH	2879	0.0	9.62E-08
1G	50.0	203	9	17:18	1.25E-17	1.52E-15	1.52E-15	TH	3558	0.0	6.91E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 14:06
STABILITY CLASS D

DATE: 83/01/19
ELEV: 4.6 MPH FROM 029 DEG
CURRENT PLUME INFORMATION AS OF 14:00 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
24E	1.1	210	9	14: 0	2.88E+02	1.44E+01	2.88E+02	WB	124.	48.2	5.44E-06
24E	SB	210	9	14: 0	2.30E+02	1.15E+01	2.30E+02	WB	90.8	0.0	4.35E-06
23E	2.2	208	9	14: 0	2.80E+02	1.41E+01	2.80E+02	WB	212.	71.1	5.16E-06
22E	3.1	206	9	14: 0	3.05E+02	1.56E+01	3.05E+02	WB	293.	88.9	5.52E-06
21E	3.7	204	9	14: 0	3.16E+02	1.63E+01	3.16E+02	WB	342.	98.9	5.59E-06
20E	4.5	203	9	14: 0	2.43E+02	1.26E+01	2.43E+02	WB	408.	111.	4.23E-06
19E	5.6	202	9	14: 0	1.44E+02	7.61E+00	1.44E+02	WB	488.	125.	2.47E-06
18E	6.8	200	9	14: 0	9.19E+01	4.89E+00	9.19E+01	WB	583.	140.	1.55E-06
17E	8.3	200	9	14: 0	6.24E+01	3.36E+00	6.24E+01	WB	692.	157.	1.05E-06
16E	9.7	199	9	14: 0	5.11E+01	2.78E+00	5.11E+01	WB	797.	172.	8.58E-07
15E	11.1	200	9	14: 0	4.04E+01	2.22E+00	4.04E+01	WB	899.	185.	6.95E-07
14E	12.4	201	9	14: 0	3.32E+01	1.84E+00	3.32E+01	WB	998.	198.	6.05E-07
13E	15.1	203	9	14: 0	2.26E+01	1.27E+00	2.26E+01	WB	1191	220.	4.72E-07
12E	16.5	203	9	14: 0	1.30E+01	7.44E-01	1.30E+01	WB	1293	232.	3.87E-07
11E	18.1	204	9	14: 0	2.81E+00	1.61E+01	1.61E+01	TH	1402	243.	3.21E-07
10E	19.7	203	9	14: 0	6.26E-02	2.16E-01	2.16E-01	TH	1517	255.	2.67E-07
9E	21.4	203	9	14: 0	5.00E-02	1.74E-01	1.74E-01	TH	1638	267.	2.20E-07
8E	23.1	203	9	14: 0	4.37E-02	1.53E-01	1.53E-01	TH	1758	278.	2.03E-07
7E	24.8	202	9	14: 0	3.77E-02	1.33E-01	1.33E-01	TH	1876	289.	1.85E-07
6E	26.5	202	9	14: 0	3.19E-02	1.13E-01	1.13E-01	TH	1993	300.	1.70E-07
5E	28.2	202	9	14: 0	2.70E-02	9.68E-02	9.68E-02	TH	2108	310.	1.57E-07
4E	29.9	201	9	14: 0	2.14E-02	7.74E-02	7.74E-02	TH	2221	319.	1.43E-07
3E	31.6	201	9	14: 0	1.64E-02	5.95E-02	5.95E-02	TH	2341	329.	1.32E-07
2E	33.3	201	9	14: 0	1.13E-02	4.13E-02	4.13E-02	TH	2458	338.	1.22E-07
1E	35.0	200	9	14: 0	3.11E-03	1.14E-02	1.14E-02	TH	2576	348.	1.12E-07
1E	40.0	201	9	15: 6	2.56E-03	9.43E-03	9.43E-03	TH	2919	0.0	9.28E-08
1E	50.0	203	9	17:18	1.85E-03	6.83E-03	6.83E-03	TH	3597	0.0	6.72E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/14 -DAY- TIME: 14:06
ELEV: 4.6 MPH FROM 029 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 14:00

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

ENTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 03/01/19 TIME: 14:19
STABILITY CLASS D
ELEV: 4.7 MPH FROM 034 DEG
CURRENT PLUME INFORMATION AS OF 14:15 ON 03/01/19
PRESENT LOCATION

ID	MILE	DEC	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14%SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
25C	1.2	214	10	14:15	6.66E-15	8.35E-13	8.35E-13	TH	127.	50.1	2.37E-05
25C	SB	214	10	14:15	1.18E-14	1.48E-12	1.48E-12	TH	91.5	0.0	4.20E-05
24G	2.3	212	9	14:15	2.48E-15	3.11E-13	3.11E-13	TH	229.	75.7	8.93E-06
23G	3.3	210	9	14:15	1.57E-15	1.96E-13	1.96E-13	TH	323.	95.7	5.71E-06
22G	4.3	208	9	14:15	1.11E-15	1.40E-13	1.40E-13	TH	403.	111.	4.11E-06
21G	4.9	207	9	14:15	1.30E-15	1.64E-13	1.64E-13	TH	478.	124.	4.86E-06
20G	5.7	205	9	14:15	8.22E-16	1.03E-13	1.03E-13	TH	525.	132.	3.09E-06
19G	6.7	204	9	14:15	5.39E-16	6.75E-14	6.75E-14	TH	588.	142.	2.05E-06
18G	8.0	202	9	14:15	3.60E-16	4.51E-14	4.51E-14	TH	666.	153.	1.39E-06
17G	9.4	201	9	14:15	2.46E-16	3.08E-14	3.08E-14	TH	758.	167.	9.66E-07
16G	10.8	201	9	14:15	1.99E-16	2.50E-14	2.50E-14	TH	865.	181.	7.95E-07
15G	12.2	201	9	14:15	1.67E-16	2.09E-14	2.09E-14	TH	968.	194.	6.75E-07
14G	13.6	202	9	14:15	1.42E-16	1.78E-14	1.78E-14	TH	1069	206.	5.87E-07
13G	16.2	204	9	14:15	1.24E-16	1.55E-14	1.55E-14	TH	1167	218.	5.20E-07
12G	17.7	204	9	14:15	8.91E-17	1.11E-14	1.11E-14	TH	1358	239.	3.80E-07
11G	19.2	204	9	14:15	7.30E-17	9.15E-15	9.15E-15	TH	1459	249.	3.17E-07
10G	20.8	204	9	14:15	5.99E-17	7.51E-15	7.51E-15	TH	1567	260.	2.66E-07
9G	22.6	204	9	14:15	4.96E-17	6.21E-15	6.21E-15	TH	1681	271.	2.24E-07
8G	24.3	203	9	14:15	4.37E-17	5.47E-15	5.47E-15	TH	1801	283.	2.02E-07
7G	26.0	203	9	14:15	3.89E-17	4.87E-15	4.87E-15	TH	1920	293.	1.85E-07
6G	27.7	202	9	14:15	3.47E-17	4.35E-15	4.35E-15	TH	2038	304.	1.69E-07
5G	29.3	202	9	14:15	3.12E-17	3.91E-15	3.91E-15	TH	2154	314.	1.56E-07
4G	31.0	202	9	14:15	2.77E-17	3.47E-15	3.47E-15	TH	2269	323.	1.43E-07
3G	32.7	201	9	14:15	2.46E-17	3.09E-15	3.09E-15	TH	2385	333.	1.31E-07
2G	34.4	201	9	14:15	2.19E-17	2.74E-15	2.74E-15	TH	2501	342.	1.20E-07
1G	36.1	201	9	14:15	1.95E-17	2.45E-15	2.45E-15	TH	2618	351.	1.11E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 14:20
STABILITY CLASS D
ELEV: 4.7 MPH FROM 034 DEG

CURRENT PLUME INFORMATION AS OF 14:15 ON 83/01/19

PRESENT LOCATION

ID	MILE	DEC	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
25E	1.2	214	10	14:15	6.60E+02	3.43E+01	6.60E+02	WB	127.	48.9	1.33E-05
25E	SB	214	10	14:15	2.22E+02	1.15E+01	2.22E+02	WB	90.8	0.0	4.50E-06
24E	2.3	212	9	14:15	2.40E+02	1.26E+01	2.40E+02	WB	227.	74.4	4.78E-06
23E	3.3	210	9	14:15	2.57E+02	1.36E+01	2.57E+02	WB	309.	92.4	4.99E-06
22E	4.3	208	9	14:15	2.14E+02	1.14E+01	2.14E+02	WB	387.	107.	4.06E-06
21E	4.9	207	9	14:15	2.53E+02	1.37E+01	2.53E+02	WB	435.	116.	4.70E-06
20E	5.7	205	9	14:15	1.56E+02	8.51E+00	1.56E+02	WB	499.	127.	2.85E-06
19E	6.7	204	9	14:15	1.05E+02	5.80E+00	1.05E+02	WB	577.	140.	1.89E-06
18E	8.0	202	9	14:15	7.21E+01	4.02E+00	7.21E+01	WB	671.	154.	1.28E-06
17E	9.4	201	9	14:15	4.94E+01	2.78E+00	4.94E+01	WB	779.	169.	8.73E-07
16E	10.8	201	9	14:15	3.97E+01	2.26E+00	3.97E+01	WB	883.	183.	7.00E-07
15E	12.2	201	9	14:15	3.36E+01	1.93E+00	3.36E+01	WB	984.	196.	6.06E-07
14E	13.6	202	9	14:15	2.79E+01	1.62E+00	2.79E+01	WB	1083	208.	5.35E-07
13E	16.2	204	9	14:15	1.94E+01	1.14E+00	1.94E+01	WB	1274	230.	4.26E-07
12E	17.7	204	9	14:15	1.13E+01	6.74E-01	1.13E+01	WB	1376	241.	3.52E-07
11E	19.2	204	9	14:15	2.45E+00	1.46E+01	1.46E+01	TH	1484	252.	2.94E-07
10E	20.8	204	9	14:15	5.40E-02	1.95E-01	1.95E-01	TH	1599	263.	2.42E-07
9E	22.6	204	9	14:15	4.42E-02	1.61E-01	1.61E-01	TH	1720	275.	2.04E-07
8E	24.3	203	9	14:15	3.87E-02	1.42E-01	1.42E-01	TH	1839	286.	1.89E-07
[illegible]	26.0	203	9	14:15	3.36E-02	1.24E-01	1.24E-01	TH	1957	296.	1.73E-07
6E	27.7	202	9	14:15	2.86E-02	1.06E-01	1.06E-01	TH	2074	307.	1.60E-07
5E	29.3	202	9	14:15	2.42E-02	9.10E-02	9.10E-02	TH	2189	316.	1.48E-07
4E	31.0	202	9	14:15	1.94E-02	7.35E-02	7.35E-02	TH	2305	326.	1.37E-07
3E	32.7	201	9	14:15	1.48E-02	5.63E-02	5.63E-02	TH	2421	335.	1.26E-07
2E	34.4	201	9	14:15	1.02E-02	3.91E-02	3.91E-02	TH	2538	345.	1.16E-07
1E	36.1	201	9	14:15	2.82E-03	1.08E-02	1.08E-02	TH	2656	354.	1.07E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

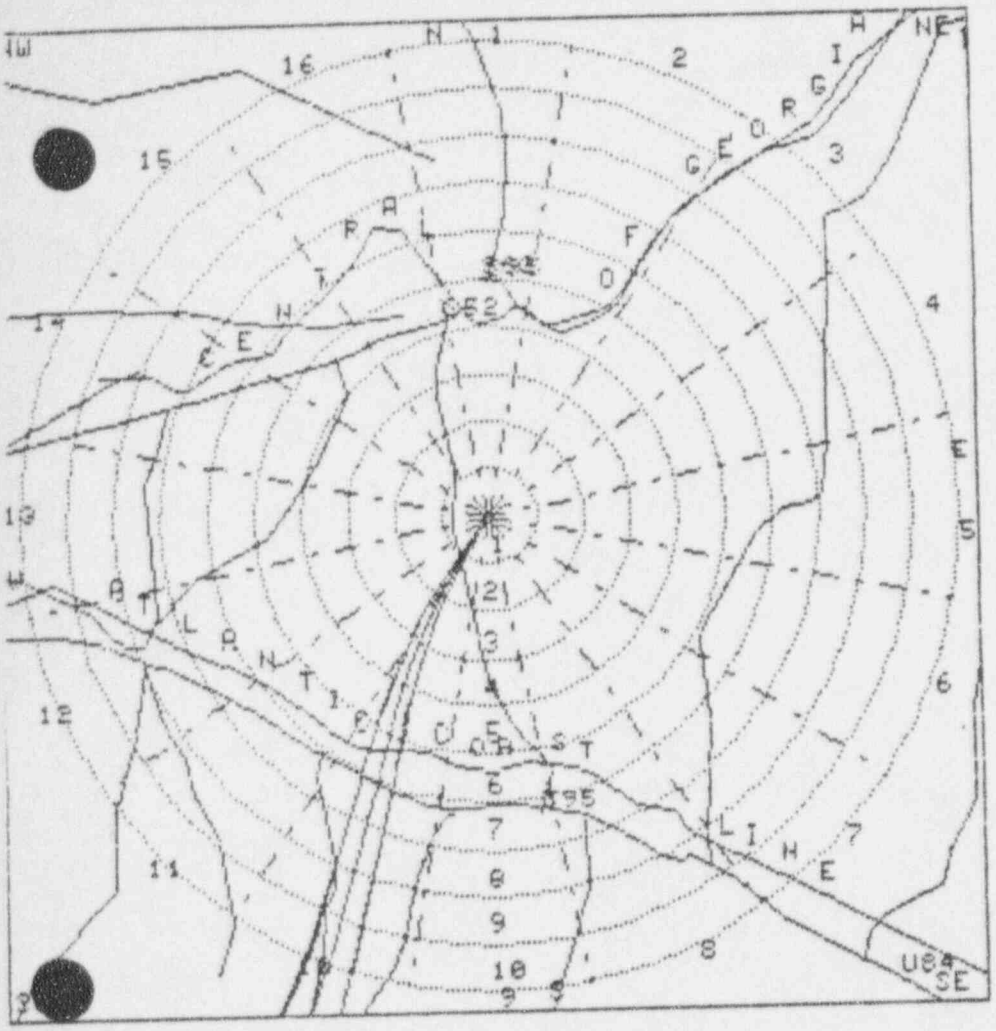
DATE: 83/01/19 TIME: 14:20
STABILITY CLASS D
ELEV: 4.7 MPH FROM 034 DEG
CURRENT PLUME INFORMATION AS OF 14:15 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
25G	1.2	214	10	14:15	6.66E-15	8.35E-13	8.35E-13	TH	127.	50.1	2.37E-05
25C	SB	214	10	14:15	1.18E-14	1.48E-12	1.48E-12	TH	91.5	0.0	4.20E-05
24C	2.3	212	9	14:15	2.48E-15	3.11E-13	3.11E-13	TH	229.	75.7	8.93E-06
23C	3.3	210	9	14:15	1.57E-15	1.96E-13	1.96E-13	TH	323.	95.7	5.71E-06
22G	4.3	208	9	14:15	1.11E-15	1.40E-13	1.40E-13	TH	403.	111.	4.11E-06
21G	4.9	207	9	14:15	1.30E-15	1.64E-13	1.64E-13	TH	478.	124.	4.86E-06
20G	5.7	205	9	14:15	8.22E-16	1.03E-13	1.03E-13	TH	525.	132.	3.09E-06
19G	6.7	204	9	14:15	5.39E-16	6.75E-14	6.75E-14	TH	588.	142.	2.05E-06
18G	8.0	202	9	14:15	3.60E-16	4.51E-14	4.51E-14	TH	666.	153.	1.39E-06
17C	9.4	201	9	14:15	2.46E-16	3.08E-14	3.08E-14	TH	758.	167.	9.66E-07
16G	10.8	201	9	14:15	1.99E-16	2.50E-14	2.50E-14	TH	865.	181.	7.95E-07
15C	12.2	201	9	14:15	1.67E-16	2.09E-14	2.09E-14	TH	968.	194.	6.75E-07
14G	13.6	202	9	14:15	1.42E-16	1.78E-14	1.78E-14	TH	1069	206.	5.87E-07
13C	16.2	204	9	14:15	1.24E-16	1.55E-14	1.55E-14	TH	1167	218.	5.20E-07
12G	17.7	204	9	14:15	8.91E-17	1.11E-14	1.11E-14	TH	1358	239.	3.80E-07
11C	19.2	204	9	14:15	7.30E-17	9.15E-15	9.15E-15	TH	1459	249.	3.17E-07
10G	20.8	204	9	14:15	5.99E-17	7.51E-15	7.51E-15	TH	1567	260.	2.66E-07
9C	22.6	204	9	14:15	4.96E-17	6.21E-15	6.21E-15	TH	1681	271.	2.24E-07
8G	24.3	203	9	14:15	4.37E-17	5.47E-15	5.47E-15	TH	1801	283.	2.02E-07
7C	26.0	203	9	14:15	3.89E-17	4.87E-15	4.87E-15	TH	1920	293.	1.85E-07
6G	27.7	202	9	14:15	3.47E-17	4.35E-15	4.35E-15	TH	2038	304.	1.69E-07
5G	29.3	202	9	14:15	3.12E-17	3.91E-15	3.91E-15	TH	2154	314.	1.56E-07
4G	31.0	202	9	14:15	2.77E-17	3.47E-15	3.47E-15	TH	2269	323.	1.43E-07
3G	32.7	201	9	14:15	2.46E-17	3.09E-15	3.09E-15	TH	2385	333.	1.31E-07
2G	34.4	201	9	14:15	2.19E-17	2.74E-15	2.74E-15	TH	2501	342.	1.20E-07
1G	36.1	201	9	14:15	1.95E-17	2.45E-15	2.45E-15	TH	2618	351.	1.11E-07
1C	40.0	202	9	15: 5	1.68E-17	2.10E-15	2.10E-15	TH	2886	0.0	9.58E-08
1C	50.0	204	9	17:15	1.20E-17	1.51E-15	1.51E-15	TH	3571	0.0	6.87E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 14:21
STABILITY CLASS D
WIND: 4.7 MPH FROM 034 DEG
CURRENT PLUME INFORMATION AS OF 14:15 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN 2.14*SIGMA DOSE RATE	ID	Y	Z	CHI/Q
JULIAN DAY = 19											
25E	1.2	214	10	14:15	6.60E+02	3.43E+01	6.60E+02	WB	127.	48.9	1.33E-05
26E	SB	214	10	14:15	2.22E+02	1.15E+01	2.22E+02	WB	90.8	0.0	4.50E-06
24E	2.3	212	9	14:15	2.40E+02	1.26E+01	2.40E+02	WB	227.	74.4	4.78E-06
23E	3.3	210	9	14:15	2.57E+02	1.36E+01	2.57E+02	WB	309.	92.4	4.99E-06
22E	4.3	208	9	14:15	2.14E+02	1.14E+01	2.14E+02	WB	387.	107.	4.06E-06
21E	4.9	207	9	14:15	2.53E+02	1.37E+01	2.53E+02	WB	435.	116.	4.70E-06
20E	5.7	205	9	14:15	1.56E+02	8.51E+00	1.56E+02	WB	499.	127.	2.85E-06
19E	6.7	204	9	14:15	1.05E+02	5.80E+00	1.05E+02	WB	577.	140.	1.89E-06
18E	8.0	202	9	14:15	7.21E+01	4.02E+00	7.21E+01	WB	671.	154.	1.28E-06
17E	9.4	201	9	14:15	4.94E+01	2.78E+00	4.94E+01	WB	779.	169.	8.73E-07
16E	10.8	201	9	14:15	3.97E+01	2.26E+00	3.97E+01	WB	883.	183.	7.00E-07
15E	12.2	201	9	14:15	3.36E+01	1.93E+00	3.36E+01	WB	984.	196.	6.06E-07
14E	13.6	202	9	14:15	2.79E+01	1.62E+00	2.79E+01	WB	1083	208.	5.35E-07
13E	16.2	204	9	14:15	1.94E+01	1.14E+00	1.94E+01	WB	1274	230.	4.26E-07
12E	17.7	204	9	14:15	1.13E+01	6.74E-01	1.13E+01	WB	1376	241.	3.52E-07
11E	19.2	204	9	14:15	2.45E+00	1.46E+01	1.46E+01	TH	1484	252.	2.94E-07
10E	20.8	204	9	14:15	5.40E-02	1.95E-01	1.95E-01	TH	1599	263.	2.42E-07
9E	22.6	204	9	14:15	4.42E-02	1.61E-01	1.61E-01	TH	1720	275.	2.04E-07
8E	24.3	203	9	14:15	3.87E-02	1.42E-01	1.42E-01	TH	1839	286.	1.89E-07
7E	26.0	203	9	14:15	3.36E-02	1.24E-01	1.24E-01	TH	1957	296.	1.73E-07
6E	27.7	202	9	14:15	2.86E-02	1.06E-01	1.06E-01	TH	2074	307.	1.60E-07
5E	29.3	202	9	14:15	2.42E-02	9.10E-02	9.10E-02	TH	2189	316.	1.48E-07
4E	31.0	202	9	14:15	1.94E-02	7.35E-02	7.35E-02	TH	2305	326.	1.37E-07
3E	32.7	201	9	14:15	1.48E-02	5.63E-02	5.63E-02	TH	2421	335.	1.26E-07
2E	34.4	201	9	14:15	1.02E-02	3.91E-02	3.91E-02	TH	2538	345.	1.16E-07
1E	36.1	201	9	14:15	2.82E-03	1.08E-02	1.08E-02	TH	2656	354.	1.07E-07
1E	40.0	202	9	15: 5	2.43E-03	9.37E-03	9.37E-03	TH	2923	0.0	9.26E-08
1E	50.0	204	9	17:15	1.76E-03	6.77E-03	6.77E-03	TH	3608	0.0	6.69E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 14:20
ELEV: 4.7 MPH FROM 034 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 14:15

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

ENTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 14:35
STABILITY CLASS D
ELEV: 5.1 MPH FROM 028 DEG
CURRENT PLUME INFORMATION AS OF 14:30 ON 83/01/19
PRESENT LOCATION

ID	MILE	DEC	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
26G	1.3	208	9	14:30	5.23E-15	6.73E-13	6.73E-13	TH	137.	52.9	1.90E-05
25G	SB	208	9	14:30	1.05E-14	1.36E-12	1.36E-12	TH	91.5	0.0	3.83E-05
25G	2.5	211	9	14:30	2.08E-15	2.68E-13	2.68E-13	TH	248.	79.9	7.64E-06
24G	3.6	211	9	14:30	1.22E-15	1.57E-13	1.57E-13	TH	343.	99.7	4.53E-06
23G	4.6	209	9	14:30	9.33E-16	1.20E-13	1.20E-13	TH	434.	116.	3.50E-06
22G	5.6	208	9	14:30	7.31E-16	9.41E-14	9.41E-14	TH	511.	129.	2.77E-06
21G	6.2	207	9	14:30	9.10E-16	1.17E-13	1.17E-13	TH	585.	141.	3.49E-06
20G	7.0	206	9	14:30	5.89E-16	7.59E-14	7.59E-14	TH	631.	148.	2.29E-06
19G	8.0	204	9	14:30	3.99E-16	5.14E-14	5.14E-14	TH	693.	157.	1.57E-06
18G	9.2	203	9	14:30	2.75E-16	3.55E-14	3.55E-14	TH	769.	168.	1.10E-06
17G	10.7	202	9	14:30	1.94E-16	2.50E-14	2.50E-14	TH	861.	180.	7.85E-07
16G	12.1	202	9	14:30	1.61E-16	2.08E-14	2.08E-14	TH	966.	194.	6.64E-07
15G	13.5	202	9	14:30	1.37E-16	1.77E-14	1.77E-14	TH	1069	206.	5.75E-07
14G	14.9	202	9	14:30	1.19E-16	1.54E-14	1.54E-14	TH	1169	218.	5.08E-07
13G	17.5	204	9	14:30	1.05E-16	1.36E-14	1.36E-14	TH	1267	229.	4.56E-07
12G	19.0	204	9	14:30	7.72E-17	9.94E-15	9.94E-15	TH	1456	249.	3.39E-07
11G	20.5	204	9	14:30	6.38E-17	8.22E-15	8.22E-15	TH	1557	259.	2.86E-07
10G	22.1	204	9	14:30	5.28E-17	6.79E-15	6.79E-15	TH	1661	270.	2.41E-07
9G	23.9	204	9	14:30	4.39E-17	5.66E-15	5.66E-15	TH	1778	280.	2.05E-07
8G	25.6	203	9	14:30	3.89E-17	5.02E-15	5.02E-15	TH	1898	291.	1.86E-07
7G	27.3	203	9	14:30	3.49E-17	4.49E-15	4.49E-15	TH	2017	302.	1.71E-07
6G	29.0	203	9	14:30	3.13E-17	4.03E-15	4.03E-15	TH	2134	312.	1.57E-07
5G	30.6	202	9	14:30	2.83E-17	3.64E-15	3.64E-15	TH	2250	322.	1.46E-07
4G	32.3	202	9	14:30	2.51E-17	3.24E-15	3.24E-15	TH	2365	331.	1.34E-07
3G	34.0	202	9	14:30	2.24E-17	2.89E-15	2.89E-15	TH	2480	340.	1.23E-07
2G	35.7	201	9	14:30	2.00E-17	2.58E-15	2.58E-15	TH	2596	349.	1.13E-07
1G	37.4	201	9	14:30	1.79E-17	2.31E-15	2.31E-15	TH	2713	358.	1.05E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 14:35
ELEV. 5.1 MPH FROM 028 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 14:30 ON 83/01/19

PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
26E	1.3	208	9	14:30	2.67E+02	1.44E+01	2.67E+02	WB	137.	51.8	5.81E-06
26E	SE	208	9	14:30	2.30E+02	1.21E+01	2.30E+02	WB	90.8	0.0	5.00E-06
25E	2.5	211	9	14:30	2.13E+02	1.16E+01	2.13E+02	WB	238.	77.1	4.54E-06
24E	3.6	211	9	14:30	1.97E+02	1.08E+01	1.97E+02	WB	332.	96.9	4.11E-06
23E	4.6	209	9	14:30	1.75E+02	9.74E+00	1.75E+02	WB	412.	112.	3.57E-06
22E	5.6	208	9	14:30	1.31E+02	7.36E+00	1.31E+02	WB	487.	125.	2.62E-06
21E	6.2	207	9	14:30	1.58E+02	8.95E+00	1.58E+02	WB	534.	133.	3.09E-06
20E	7.0	206	9	14:30	1.12E+02	6.43E+00	1.12E+02	WB	596.	143.	2.16E-06
19E	8.0	204	9	14:30	8.10E+01	4.67E+00	8.10E+01	WB	674.	154.	1.53E-06
18E	9.2	203	9	14:30	5.59E+01	3.26E+00	5.59E+01	WB	766.	167.	1.04E-06
17E	10.7	202	9	14:30	3.77E+01	2.22E+00	3.77E+01	WB	873.	182.	6.99E-07
16E	12.1	202	9	14:30	3.25E+01	1.93E+00	3.25E+01	WB	976.	195.	6.02E-07
15E	13.5	202	9	14:30	2.79E+01	1.68E+00	2.79E+01	WB	1077	207.	5.29E-07
14E	14.9	202	9	14:30	2.35E+01	1.43E+00	2.35E+01	WB	1175	219.	4.72E-07
13E	17.5	204	9	14:30	1.66E+01	1.02E+00	1.66E+01	WB	1365	239.	3.83E-07
12E	19.0	204	9	14:30	9.76E+00	6.09E-01	9.76E+00	WB	1467	250.	3.19E-07
11E	20.5	204	9	14:30	2.10E+00	1.31E+01	1.31E+01	TH	1574	261.	2.64E-07
10E	22.1	204	9	14:30	4.73E-02	1.79E-01	1.79E-01	TH	1689	272.	2.22E-07
9E	23.9	204	9	14:30	3.89E-02	1.48E-01	1.48E-01	TH	1809	283.	1.89E-07
8E	25.6	203	9	14:30	3.43E-02	1.31E-01	1.31E-01	TH	1928	294.	1.76E-07
7E	27.3	203	9	14:30	2.99E-02	1.15E-01	1.15E-01	TH	2045	304.	1.62E-07
6E	29.0	203	9	14:30	2.55E-02	9.95E-02	9.95E-02	TH	2162	314.	1.50E-07
5E	30.6	202	9	14:30	2.19E-02	8.60E-02	8.60E-02	TH	2277	324.	1.41E-07
4E	32.3	202	9	14:30	1.75E-02	6.91E-02	6.91E-02	TH	2392	333.	1.29E-07
3E	34.0	202	9	14:30	1.33E-02	5.30E-02	5.30E-02	TH	2509	342.	1.19E-07
2E	35.7	201	9	14:30	9.25E-03	3.70E-02	3.70E-02	TH	2626	351.	1.10E-07
1E	37.4	201	9	14:30	2.56E-03	1.03E-02	1.03E-02	TH	2743	360.	1.02E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 14:36
STABILITY CLASS D

DATE: 83/01/19
ELEV: 5.1 MPH FROM 028 DEG

CURRENT PLUME INFORMATION AS OF 14:30 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19										
26G	1.3	208	9	14:30	5.23E-15	6.73E-13	TH	137.	52.9	1.90E-05
26G	SB	208	9	14:30	1.05E-14	1.36E-12	TH	91.5	0.0	3.83E-05
25G	2.5	211	9	14:30	2.08E-15	2.68E-13	TH	248.	79.9	7.64E-06
24G	3.6	211	9	14:30	1.22E-15	1.57E-13	TH	343.	99.7	4.53E-06
23G	4.6	209	9	14:30	9.33E-16	1.20E-13	TH	434.	116.	3.50E-06
22G	5.6	208	9	14:30	7.31E-16	9.41E-14	TH	511.	129.	2.77E-06
21G	6.2	207	9	14:30	9.10E-16	1.17E-13	TH	585.	141.	3.49E-06
20G	7.0	206	9	14:30	5.89E-16	7.59E-14	TH	631.	148.	2.29E-06
19G	8.0	204	9	14:30	3.99E-16	5.14E-14	TH	693.	157.	1.57E-06
18G	9.2	203	9	14:30	2.75E-16	3.55E-14	TH	769.	168.	1.10E-06
17G	10.7	202	9	14:30	1.94E-16	2.50E-14	TH	861.	180.	7.85E-07
16G	12.1	202	9	14:30	1.61E-16	2.08E-14	TH	966.	194.	6.64E-07
15G	13.5	202	9	14:30	1.37E-16	1.77E-14	TH	1069	206.	5.75E-07
14G	14.9	202	9	14:30	1.19E-16	1.54E-14	TH	1169	218.	5.08E-07
13G	17.5	204	9	14:30	1.05E-16	1.36E-14	TH	1267	229.	4.56E-07
12G	19.0	204	9	14:30	7.72E-17	9.94E-15	TH	1456	249.	3.39E-07
11G	20.5	204	9	14:30	6.38E-17	8.22E-15	TH	1557	259.	2.86E-07
10G	22.1	204	9	14:30	5.28E-17	6.79E-15	TH	1664	270.	2.41E-07
9G	23.9	204	9	14:30	4.39E-17	5.66E-15	TH	1778	280.	2.05E-07
	25.6	203	9	14:30	3.89E-17	5.02E-15	TH	1898	291.	1.86E-07
7G	27.3	203	9	14:30	3.49E-17	4.49E-15	TH	2017	302.	1.71E-07
6G	29.0	203	9	14:30	3.13E-17	4.03E-15	TH	2134	312.	1.57E-07
5G	30.6	202	9	14:30	2.83E-17	3.64E-15	TH	2250	322.	1.46E-07
4G	32.3	202	9	14:30	2.51E-17	3.24E-15	TH	2365	331.	1.34E-07
3G	34.0	202	9	14:30	2.24E-17	2.89E-15	TH	2480	340.	1.23E-07
2G	35.7	201	9	14:30	2.00E-17	2.58E-15	TH	2596	349.	1.13E-07
1G	37.4	201	9	14:30	1.79E-17	2.31E-15	TH	2713	358.	1.05E-07
1G	40.0	201	9	15: 0	1.62E-17	2.09E-15	TH	2889	0.0	9.57E-08
1G	50.0	203	9	16:58	1.17E-17	1.50E-15	TH	3565	0.0	6.89E-08

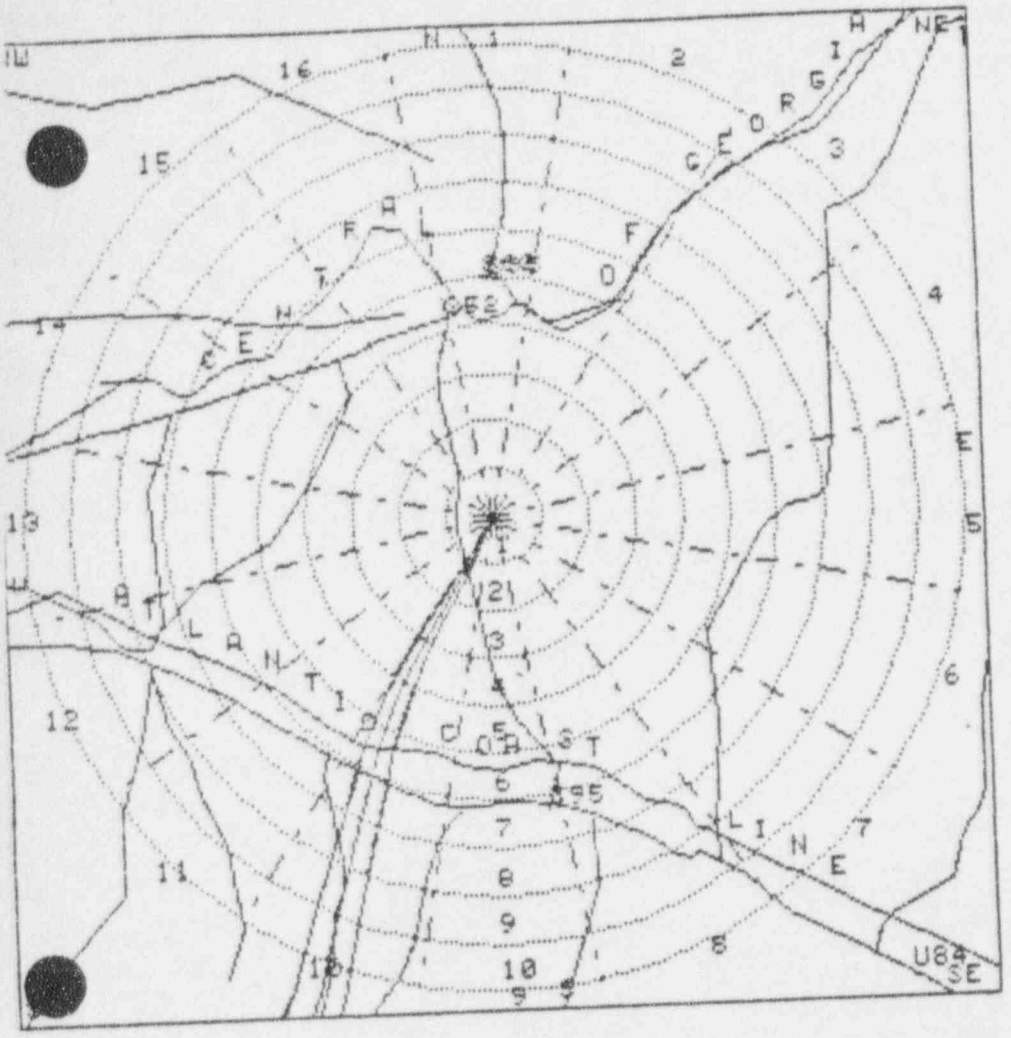
ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 14:36
STABILITY CLASS D

DATE: 83/01/19
ELEV. 5.1 MPH FROM 028 DEG

CURRENT PLUME INFORMATION AS OF 14:30 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
26E	1.3	208	9	14:30	2.67E+02	1.44E+01	2.67E+02	WB	137.	51.8	5.81E-06
26E	SB	208	9	14:30	2.30E+02	1.24E+01	2.30E+02	WB	90.8	0.0	5.00E-06
25E	2.5	211	9	14:30	2.13E+02	1.16E+01	2.13E+02	WB	238.	77.1	4.54E-06
24E	3.6	211	9	14:30	1.97E+02	1.08E+01	1.97E+02	WB	332.	96.9	4.11E-06
23E	4.6	209	9	14:30	1.75E+02	9.74E+00	1.75E+02	WB	412.	112.	3.57E-06
22E	5.6	208	9	14:30	1.31E+02	7.36E+00	1.31E+02	WB	487.	125.	2.62E-06
21E	6.2	207	9	14:30	1.58E+02	8.95E+00	1.58E+02	WB	534.	133.	3.09E-06
20E	7.0	206	9	14:30	1.12E+02	6.43E+00	1.12E+02	WB	596.	143.	2.16E-06
19E	8.0	204	9	14:30	8.10E+01	4.67E+00	8.10E+01	WB	674.	154.	1.53E-06
18E	9.2	203	9	14:30	5.59E+01	3.26E+00	5.59E+01	WB	766.	167.	1.04E-06
17E	10.7	202	9	14:30	3.77E+01	2.22E+00	3.77E+01	WB	873.	182.	6.99E-07
16E	12.1	202	9	14:30	3.25E+01	1.93E+00	3.25E+01	WB	976.	195.	6.02E-07
15E	13.5	202	9	14:30	2.79E+01	1.68E+00	2.79E+01	WB	1077	207.	5.29E-07
14E	14.9	202	9	14:30	2.35E+01	1.43E+00	2.35E+01	WB	1175	219.	4.72E-07
13E	17.5	204	9	14:30	1.66E+01	1.02E+00	1.66E+01	WB	1365	239.	3.83E-07
12E	19.0	204	9	14:30	9.76E+00	6.09E-01	9.76E+00	WB	1467	250.	3.19E-07
11E	20.5	204	9	14:30	2.10E+00	1.31E+01	1.31E+01	TH	1574	261.	2.64E-07
10E	22.1	204	9	14:30	4.73E-02	1.79E-01	1.79E-01	TH	1689	272.	2.22E-07
9E	23.9	204	9	14:30	3.89E-02	1.48E-01	1.48E-01	TH	1809	283.	1.89E-07
8E	25.6	203	9	14:30	3.43E-02	1.31E-01	1.31E-01	TH	1928	294.	1.76E-07
7E	27.3	203	9	14:30	2.99E-02	1.15E-01	1.15E-01	TH	2045	304.	1.62E-07
6E	29.0	203	9	14:30	2.55E-02	9.95E-02	9.95E-02	TH	2162	314.	1.50E-07
5E	30.6	202	9	14:30	2.19E-02	8.60E-02	8.60E-02	TH	2277	324.	1.41E-07
4E	32.3	202	9	14:30	1.75E-02	6.91E-02	6.91E-02	TH	2392	333.	1.29E-07
3E	34.0	202	9	14:30	1.33E-02	5.30E-02	5.30E-02	TH	2509	342.	1.19E-07
2E	35.7	201	9	14:30	9.25E-03	3.70E-02	3.70E-02	TH	2626	351.	1.10E-07
1E	37.4	201	9	14:30	2.56E-03	1.03E-02	1.03E-02	TH	2743	360.	1.02E-07
1E	40.0	201	9	15: 0	2.32E-03	9.36E-03	9.36E-03	TH	2919	0.0	9.28E-08
1E	50.0	203	9	16:58	1.68E-03	6.78E-03	6.78E-03	TH	3595	0.0	6.73E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 14:36
ELEV: 5.1 MPH FROM 028 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 14:30

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

ENTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 14:50
ELEV: 4.6 MPH FROM 022 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 14:45 ON 83/01/19

PRESENT LOCATION

ID	MILE	DEC	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
27G	1.1	202	9	14:45	6.77E-15	8.96E-13	8.96E-13	TH	125.	49.4	2.51E-05
27C	SB	202	9	14:45	1.16E-14	1.53E-12	1.53E-12	TH	91.5	0.0	4.30E-05
26G	2.4	205	9	14:45	2.20E-15	2.91E-13	2.91E-13	TH	224.	74.6	8.24E-06
25G	3.6	208	9	14:45	1.25E-15	1.65E-13	1.65E-13	TH	330.	97.0	4.73E-06
24G	4.7	208	9	14:45	8.38E-16	1.10E-13	1.10E-13	TH	423.	114.	3.20E-06
23G	5.7	208	9	14:45	6.89E-16	9.11E-14	9.11E-14	TH	511.	129.	2.66E-06
22G	6.7	207	9	14:45	5.63E-16	7.45E-14	7.45E-14	TH	588.	142.	2.20E-06
21G	7.3	206	9	14:45	7.23E-16	9.56E-14	9.56E-14	TH	660.	153.	2.86E-06
20G	8.1	205	9	14:45	4.76E-16	6.29E-14	6.29E-14	TH	706.	159.	1.90E-06
19G	9.2	204	9	14:45	3.28E-16	4.34E-14	4.34E-14	TH	767.	168.	1.33E-06
18G	10.4	203	9	14:45	2.30E-16	3.04E-14	3.04E-14	TH	843.	178.	9.47E-07
17G	11.8	202	9	14:45	1.65E-16	2.18E-14	2.18E-14	TH	934.	190.	6.88E-07
16G	13.3	202	9	14:45	1.39E-16	1.84E-14	1.84E-14	TH	1039	203.	5.90E-07
15G	14.6	202	9	14:45	1.20E-16	1.59E-14	1.59E-14	TH	1141	215.	5.18E-07
14G	16.0	202	9	14:45	1.05E-16	1.39E-14	1.39E-14	TH	1241	226.	4.62E-07
13G	18.7	204	9	14:45	9.39E-17	1.24E-14	1.24E-14	TH	1338	237.	4.18E-07
12G	20.1	204	9	14:45	6.95E-17	9.18E-15	9.18E-15	TH	1526	256.	3.15E-07
11G	21.6	204	9	14:45	5.77E-17	7.63E-15	7.63E-15	TH	1627	266.	2.66E-07
10G	23.3	204	9	14:45	4.79E-17	6.34E-15	6.34E-15	TH	1734	276.	2.26E-07
,	25.0	204	9	14:45	4.01E-17	5.30E-15	5.30E-15	TH	1848	287.	1.93E-07
8G	26.7	203	9	14:45	3.57E-17	4.72E-15	4.72E-15	TH	1967	298.	1.76E-07
7G	28.4	203	9	14:45	3.21E-17	4.24E-15	4.24E-15	TH	2086	308.	1.62E-07
6G	30.1	203	9	14:45	2.88E-17	3.82E-15	3.82E-15	TH	2203	318.	1.49E-07
5G	31.8	202	9	14:45	2.61E-17	3.46E-15	3.46E-15	TH	2319	327.	1.39E-07
4G	33.4	202	9	14:45	2.33E-17	3.08E-15	3.08E-15	TH	2433	337.	1.28E-07
3G	35.1	202	9	14:45	2.09E-17	2.76E-15	2.76E-15	TH	2549	346.	1.18E-07
2G	36.8	201	9	14:45	1.86E-17	2.46E-15	2.46E-15	TH	2664	354.	1.09E-07
1G	38.6	201	9	14:45	1.67E-17	2.21E-15	2.21E-15	TH	2781	363.	1.01E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 14:50
STABILITY CLASS D
ELEV: 4.6 MPH FROM 022 DEG
CURRENT PLUME INFORMATION AS OF 14:45 ON 83/01/19
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.11*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
2[illegible]E	1.1	202	9	14:45	2.33E+02	1.30E+01	2.33E+02	WB	124.	48.2	5.44E-06
2[illegible]E	SB	202	9	14:45	1.87E+02	1.04E+01	1.87E+02	WB	90.8	0.0	4.35E-06
26E	2.4	205	9	14:45	1.93E+02	1.09E+01	1.93E+02	WB	236.	76.5	4.40E-06
25E	3.6	208	9	14:45	1.81E+02	1.03E+01	1.81E+02	WB	332.	96.9	4.04E-06
24E	4.7	208	9	14:45	1.38E+02	7.95E+00	1.38E+02	WB	423.	114.	3.02E-06
23E	5.7	208	9	14:45	1.14E+02	6.63E+00	1.14E+02	WB	500.	127.	2.44E-06
22E	6.7	207	9	14:45	9.65E+01	5.65E+00	9.65E+01	WB	574.	139.	2.02E-06
21E	7.3	206	9	14:45	1.28E+02	7.57E+00	1.28E+02	WB	620.	146.	2.62E-06
20E	8.1	205	9	14:45	9.04E+01	5.39E+00	9.04E+01	WB	682.	155.	1.82E-06
19E	9.2	204	9	14:45	6.42E+01	3.87E+00	6.42E+01	WB	759.	166.	1.27E-06
18E	10.4	203	9	14:45	4.33E+01	2.63E+00	4.33E+01	WB	850.	179.	8.48E-07
17E	11.8	202	9	14:45	3.13E+01	1.93E+00	3.13E+01	WB	956.	192.	6.09E-07
16E	13.3	202	9	14:45	2.73E+01	1.70E+00	2.73E+01	WB	1059	205.	5.32E-07
15E	14.6	202	9	14:45	2.37E+01	1.49E+00	2.37E+01	WB	1159	217.	4.73E-07
14E	16.0	202	9	14:45	2.02E+01	1.28E+00	2.02E+01	WB	1257	228.	4.26E-07
13E	18.7	204	9	14:45	1.45E+01	9.34E-01	1.45E+01	WB	1446	248.	3.51E-07
12E	20.1	204	9	14:45	8.42E+00	5.49E-01	8.42E+00	WB	1547	258.	2.89E-07
11E	21.6	204	9	14:45	1.85E+00	1.21E+01	1.21E+01	TH	1654	269.	2.44E-07
[illegible]E	23.3	204	9	14:45	4.21E-02	1.66E-01	1.66E-01	TH	1768	279.	2.07E-07
[illegible]	25.0	204	9	14:45	3.48E-02	1.38E-01	1.38E-01	TH	1888	290.	1.77E-07
8E	26.7	203	9	14:45	3.07E-02	1.23E-01	1.23E-01	TH	2007	301.	1.65E-07
7E	28.4	203	9	14:45	2.69E-02	1.08E-01	1.08E-01	TH	2124	311.	1.53E-07
6E	30.1	203	9	14:45	2.32E-02	9.45E-02	9.45E-02	TH	2240	321.	1.43E-07
5E	31.8	202	9	14:45	1.98E-02	8.13E-02	8.13E-02	TH	2355	330.	1.33E-07
4E	33.4	202	9	14:45	1.58E-02	6.55E-02	6.55E-02	TH	2471	339.	1.23E-07
3E	35.1	202	9	14:45	1.21E-02	5.04E-02	5.04E-02	TH	2587	348.	1.13E-07
2E	36.8	201	9	14:45	8.43E-03	3.52E-02	3.52E-02	TH	2703	357.	1.05E-07
1E	38.6	201	9	14:45	2.33E-03	9.83E-03	9.83E-03	TH	2821	366.	9.79E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 14:51
STABILITY CLASS D

DATE: 83/01/19
[redacted]: 4.6 MPH FROM 022 DEG

CURRENT PLUME INFORMATION AS OF 14:45 ON 83/01/19
ABBREVIATED PROJECTION

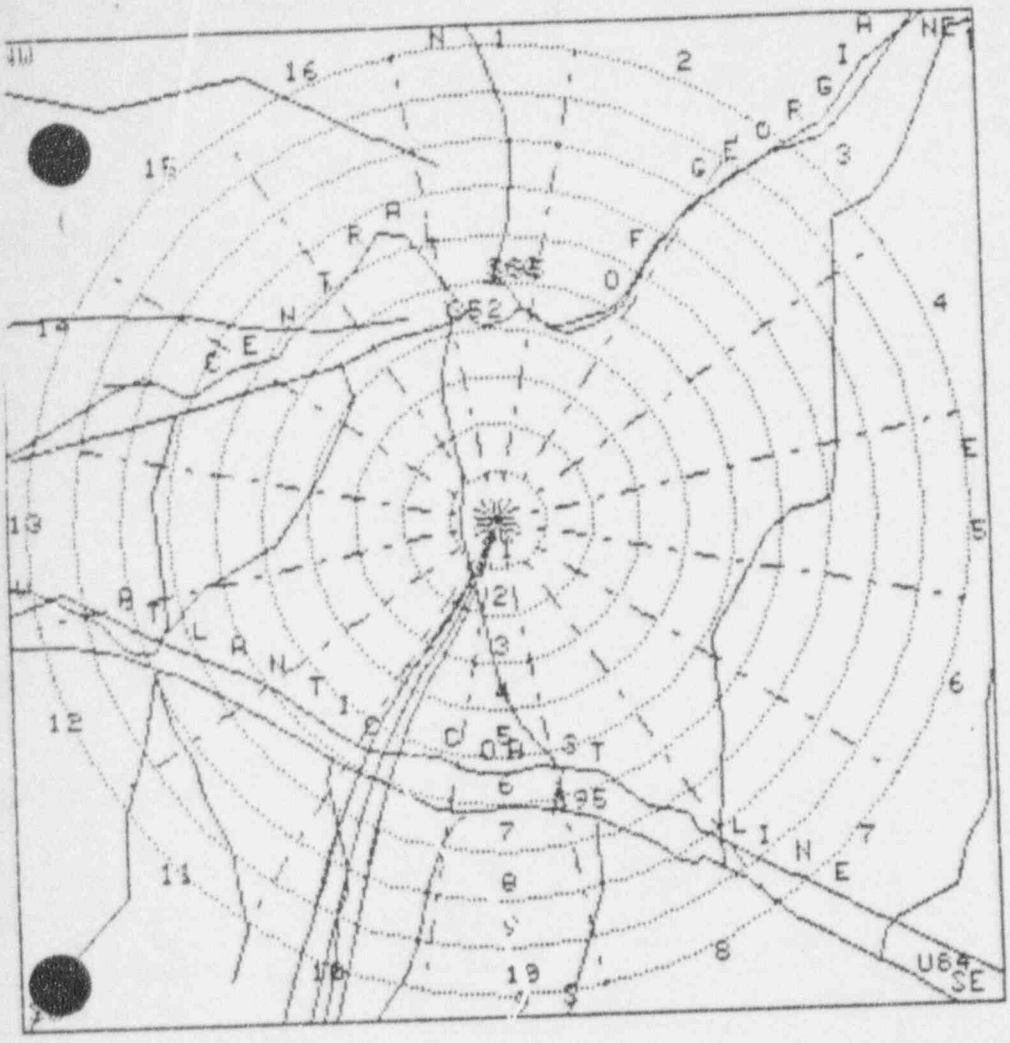
ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
2[redacted]G	1.1	202	9	14:45	6.77E-15	8.96E-13	8.96E-13	TH	125.	49.4	2.51E-05
2[redacted]G	SB	202	9	14:45	1.16E-14	1.53E-12	1.53E-12	TH	91.5	0.0	1.30E-05
2[redacted]G	2.4	205	9	14:45	2.20E-15	2.91E-13	2.91E-13	TH	224.	74.6	8.24E-06
2[redacted]G	3.6	208	9	14:45	1.25E-15	1.65E-13	1.65E-13	TH	330.	97.0	4.73E-06
2[redacted]G	4.7	208	9	14:45	8.38E-16	1.10E-13	1.10E-13	TH	423.	114.	3.20E-06
2[redacted]G	5.7	208	9	14:45	6.89E-16	9.11E-14	9.11E-14	TH	511.	129.	2.66E-06
2[redacted]G	6.7	207	9	14:45	5.63E-16	7.45E-14	7.45E-14	TH	588.	142.	2.20E-06
2[redacted]G	7.3	206	9	14:45	7.23E-16	9.56E-14	9.56E-14	TH	660.	153.	2.86E-06
2[redacted]G	8.1	205	9	14:45	4.76E-16	6.29E-14	6.29E-14	TH	706.	159.	1.90E-06
1[redacted]G	9.2	204	9	14:45	3.28E-16	4.34E-14	4.34E-14	TH	767.	168.	1.33E-06
1[redacted]G	10.4	203	9	14:45	2.30E-16	3.04E-14	3.04E-14	TH	843.	178.	9.47E-07
1[redacted]G	11.8	202	9	14:45	1.65E-16	2.18E-14	2.18E-14	TH	934.	190.	6.88E-07
1[redacted]G	13.3	202	9	14:45	1.39E-16	1.84E-14	1.84E-14	TH	1039	203.	5.90E-07
1[redacted]G	14.6	202	9	14:45	1.20E-16	1.59E-14	1.59E-14	TH	1141	215.	5.18E-07
1[redacted]G	16.0	202	9	14:45	1.05E-16	1.39E-14	1.39E-14	TH	1241	226.	4.62E-07
1[redacted]G	18.7	204	9	14:45	9.39E-17	1.24E-14	1.24E-14	TH	1338	237.	4.18E-07
12G	20.1	204	9	14:45	6.95E-17	9.18E-15	9.18E-15	TH	1526	256.	3.15E-07
11G	21.6	204	9	14:45	5.77E-17	7.63E-15	7.63E-15	TH	1627	266.	2.66E-07
[redacted]G	23.3	204	9	14:45	4.79E-17	6.34E-15	6.34E-15	TH	1734	276.	2.26E-07
[redacted]	25.0	204	9	14:45	4.01E-17	5.30E-15	5.30E-15	TH	1848	287.	1.93E-07
8G	26.7	203	9	14:45	3.57E-17	4.72E-15	4.72E-15	TH	1967	298.	1.76E-07
7G	28.4	203	9	14:45	3.21E-17	4.24E-15	4.24E-15	TH	2086	308.	1.62E-07
6G	30.1	203	9	14:45	2.88E-17	3.82E-15	3.82E-15	TH	2203	318.	1.49E-07
5G	31.8	202	9	14:45	2.61E-17	3.46E-15	3.46E-15	TH	2319	327.	1.39E-07
4G	33.4	202	9	14:45	2.33E-17	3.08E-15	3.08E-15	TH	2433	337.	1.28E-07
3G	35.1	202	9	14:45	2.09E-17	2.76E-15	2.76E-15	TH	2549	346.	1.18E-07
2G	36.8	201	9	14:45	1.86E-17	2.46E-15	2.46E-15	TH	2664	354.	1.09E-07
1G	38.6	201	9	14:45	1.67E-17	2.21E-15	2.21E-15	TH	2781	363.	1.01E-07
1G	40.0	201	9	15: 4	1.58E-17	2.09E-15	2.09E-15	TH	2878	0.0	9.62E-08
1G	50.0	201	9	17:15	1.14E-17	1.51E-15	1.51E-15	TH	3551	0.0	6.93E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 14:51
ELEV: 4.6 MPH FROM 022 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 14:45 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY - 19											
2E	1.1	202	9	14:45	2.33E+02	1.30E+01	2.33E+02	WB	124.	48.2	5.44E-06
2E	SB	202	9	14:45	1.87E+02	1.04E+01	1.87E+02	WB	90.8	0.0	4.35E-06
2E	2.4	205	9	14:45	1.93E+02	1.09E+01	1.93E+02	WB	236.	76.5	4.40E-06
2E	3.6	208	9	14:45	1.81E+02	1.03E+01	1.81E+02	WB	332.	96.9	4.04E-06
2E	4.7	208	9	14:45	1.38E+02	7.95E+00	1.38E+02	WB	423.	114.	3.02E-06
2E	5.7	208	9	14:45	1.14E+02	6.63E+00	1.14E+02	WB	500.	127.	2.44E-06
2E	6.7	207	9	14:45	9.65E+01	5.65E+00	9.65E+01	WB	574.	139.	2.02E-06
2E	7.3	206	9	14:45	1.28E+02	7.57E+00	1.28E+02	WB	620.	146.	2.62E-06
2E	8.1	205	9	14:45	9.04E+01	5.39E+00	9.04E+01	WB	682.	155.	1.82E-06
1E	9.2	204	9	14:45	6.42E+01	3.87E+00	6.42E+01	WB	759.	166.	1.27E-06
1E	10.4	203	9	14:45	4.33E+01	2.63E+00	4.33E+01	WB	850.	179.	8.48E-07
1E	11.8	202	9	14:45	3.13E+01	1.93E+00	3.13E+01	WB	956.	192.	6.09E-07
1E	13.3	202	9	14:45	2.73E+01	1.70E+00	2.73E+01	WB	1059	205.	5.32E-07
1E	14.6	202	9	14:45	2.37E+01	1.49E+00	2.37E+01	WB	1159	217.	4.73E-07
1E	16.0	202	9	14:45	2.02E+01	1.28E+00	2.02E+01	WB	1257	228.	4.26E-07
1E	18.7	204	9	14:45	1.45E+01	9.34E-01	1.45E+01	WB	1446	248.	3.51E-07
1E	20.1	204	9	14:45	8.42E+00	5.49E-01	8.42E+00	WB	1547	258.	2.89E-07
1E	21.6	204	9	14:45	1.85E+00	1.21E+01	1.21E+01	TH	1651	269.	2.44E-07
1E	23.3	204	9	14:45	4.21E-02	1.66E-01	1.66E-01	TH	1768	279.	2.07E-07
E	25.0	204	9	14:45	3.48E-02	1.38E-01	1.38E-01	TH	1888	290.	1.77E-07
8E	26.7	203	9	14:45	3.07E-02	1.23E-01	1.23E-01	TH	2007	301.	1.65E-07
7E	28.4	203	9	14:45	2.69E-02	1.08E-01	1.08E-01	TH	2124	311.	1.53E-07
6E	30.1	203	9	14:45	2.32E-02	9.45E-02	9.45E-02	TH	2240	321.	1.43E-07
5E	31.8	202	9	14:45	1.98E-02	8.13E-02	8.13E-02	TH	2355	330.	1.33E-07
4E	33.4	202	9	14:45	1.58E-02	6.55E-02	6.55E-02	TH	2471	339.	1.23E-07
3E	35.1	202	9	14:45	1.21E-02	5.04E-02	5.04E-02	TH	2587	348.	1.13E-07
2E	36.8	201	9	14:45	8.43E-03	3.52E-02	3.52E-02	TH	2703	357.	1.05E-07
1E	38.6	201	9	14:45	2.33E-03	9.83E-03	9.83E-03	TH	2821	366.	9.79E-08
1E	40.0	201	9	15: 4	2.22E-03	9.33E-03	9.33E-03	TH	2918	0.0	9.29E-08
1E	50.0	201	9	17:15	1.61E-03	6.77E-03	6.77E-03	TH	3590	0.0	6.74E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 14:51
ELEV: 4.6 MPH FROM 022 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 14:45

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

ENTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 15:06
STABILITY CLASS D

DATE: 03/01/19
ELEV: 2.5 MPH FROM 016 DEG

CURRENT PLUME INFORMATION AS OF 15:00 ON 03/01/19

PRESENT LOCATION

ID	MILE	DEG	SEC	JULIAN DAY = 19 TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN	2.14*SIGMA Y	Z	CHI/Q
28G	.6	196	9	15: 0	2.98E-14	4.04E-12	4.04E-12 TH	75.0	34.2	1.12E-04
28G	SB	196	9	15: 4	2.12E-14	2.87E-12	2.87E-12 TH	91.5	0.0	8.02E-05
28G	1.8	200	9	15: 0	5.94E-15	8.07E-13	8.07E-13 TH	132.	51.5	2.27E-05
28G	3.0	203	9	15: 0	2.03E-15	2.75E-13	2.75E-13 TH	232.	76.2	7.82E-06
25G	4.2	206	9	15: 0	1.17E-15	1.59E-13	1.59E-13 TH	337.	98.4	4.57E-06
29G	5.3	207	9	15: 0	7.93E-16	1.07E-13	1.07E-13 TH	429.	115.	3.12E-06
23G	6.3	207	9	15: 0	6.56E-16	8.89E-14	8.89E-14 TH	518.	130.	2.61E-06
22G	7.3	206	9	15: 0	5.37E-16	7.29E-14	7.29E-14 TH	594.	143.	2.16E-06
27G	7.9	205	9	15: 0	6.91E-16	9.38E-14	9.38E-14 TH	667.	154.	2.81E-06
20G	8.7	205	9	15: 0	4.55E-16	6.18E-14	6.18E-14 TH	712.	160.	1.87E-06
19G	9.8	204	9	15: 0	3.14E-16	4.26E-14	4.26E-14 TH	773.	169.	1.31E-06
18G	11.0	203	9	15: 0	2.21E-16	3.00E-14	3.00E-14 TH	849.	179.	9.36E-07
17G	12.4	202	9	15: 0	1.58E-16	2.15E-14	2.15E-14 TH	940.	191.	6.81E-07
16G	13.9	202	9	15: 0	1.34E-16	1.82E-14	1.82E-14 TH	1045	204.	5.85E-07
15G	15.3	202	9	15: 0	1.16E-16	1.57E-14	1.57E-14 TH	1147	216.	5.13E-07
14G	16.6	202	9	15: 0	1.01E-16	1.38E-14	1.38E-14 TH	1247	227.	4.58E-07
13G	19.3	204	9	15: 0	9.05E-17	1.22E-14	1.22E-14 TH	1344	237.	4.15E-07
12G	20.7	204	9	15: 0	6.70E-17	9.09E-15	9.09E-15 TH	1532	257.	3.13E-07
11G	22.2	204	9	15: 0	5.57E-17	7.56E-15	7.56E-15 TH	1633	267.	2.65E-07
10G	23.9	204	9	15: 0	4.63E-17	6.28E-15	6.28E-15 TH	1740	277.	2.25E-07
9G	25.6	204	9	15: 0	3.87E-17	5.25E-15	5.25E-15 TH	1853	287.	1.92E-07
8G	27.3	203	9	15: 0	3.45E-17	4.68E-15	4.68E-15 TH	1973	298.	1.75E-07
7G	29.0	203	9	15: 0	3.10E-17	4.21E-15	4.21E-15 TH	2092	308.	1.61E-07
6G	30.7	203	9	15: 0	2.79E-17	3.79E-15	3.79E-15 TH	2209	318.	1.49E-07
5G	32.4	202	9	15: 0	2.53E-17	3.43E-15	3.43E-15 TH	2324	328.	1.39E-07
4G	34.1	202	9	15: 0	2.25E-17	3.06E-15	3.06E-15 TH	2439	337.	1.27E-07
3G	35.8	202	9	15: 0	2.02E-17	2.74E-15	2.74E-15 TH	2554	346.	1.18E-07
2G	37.5	201	9	15: 0	1.80E-17	2.45E-15	2.45E-15 TH	2670	355.	1.09E-07
1G	39.2	201	9	15: 0	1.62E-17	2.19E-15	2.19E-15 TH	2787	364.	1.01E-07

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 15:06
STABILITY CLASS D
ELEV: 2.5 MPH FROM 016 DEG
CURRENT PLUME INFORMATION AS OF 15:00 ON 83/01/19
PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
28E	.6	196	9	15: 0	4.21E+01	2.44E+00	4.21E+01	WB	74.2	32.5	1.04E-06
28E	SB	196	9	15: 4	1.05E+02	6.08E+00	1.05E+02	WB	90.8	0.0	2.60E-06
28E	1.8	200	9	15: 0	2.25E+02	1.32E+01	2.25E+02	WB	179.	62.9	5.51E-06
28E	3.0	203	9	15: 0	1.95E+02	1.15E+01	1.95E+02	WB	287.	87.6	4.67E-06
26E	3.0	203	9	15: 0	1.95E+02	1.15E+01	1.95E+02	WB	381.	106.	3.48E-06
25E	4.2	206	9	15: 0	1.48E+02	8.85E+00	1.48E+02	WB	470.	122.	2.37E-06
24E	5.3	207	9	15: 0	1.03E+02	6.20E+00	1.03E+02	WB	547.	135.	2.10E-06
23E	6.3	207	9	15: 0	9.40E+01	5.69E+00	9.40E+01	WB	620.	146.	1.84E-06
23E	7.3	206	9	15: 0	8.40E+01	5.13E+00	8.40E+01	WB	666.	153.	2.37E-06
21E	7.9	205	9	15: 0	1.10E+02	6.82E+00	1.10E+02	WB	728.	162.	1.65E-06
20E	8.7	205	9	15: 0	7.82E+01	4.87E+00	7.82E+01	WB	804.	173.	1.16E-06
19E	9.8	204	9	15: 0	5.59E+01	3.52E+00	5.59E+01	WB	895.	185.	7.84E-07
18E	11.0	203	9	15: 0	3.82E+01	2.43E+00	3.82E+01	WB	1001	198.	5.68E-07
17E	12.4	202	9	15: 0	2.79E+01	1.79E+00	2.79E+01	WB	1103	210.	5.00E-07
16E	13.9	202	9	15: 0	2.45E+01	1.59E+00	2.45E+01	WB	1203	222.	4.46E-07
15E	15.3	202	9	15: 0	2.14E+01	1.41E+00	2.14E+01	WB	1300	232.	4.01E-07
14E	16.6	202	9	15: 0	1.83E+01	1.21E+00	1.83E+01	WB	1489	252.	3.35E-07
13E	19.3	204	9	15: 0	1.32E+01	8.90E-01	1.32E+01	WB	1590	262.	2.77E-07
12E	20.7	204	9	15: 0	7.71E+00	5.24E-01	7.71E+00	WB	1697	273.	2.35E-07
[illegible]	22.2	204	9	15: 0	1.70E+00	1.16E+01	1.16E+01	TH	1811	283.	2.00E-07
[illegible]	23.9	204	9	15: 0	3.87E-02	1.60E-01	1.60E-01	TH	1931	294.	1.71E-07
9E	25.6	204	9	15: 0	3.21E-02	1.33E-01	1.33E-01	TH	2049	305.	1.60E-07
8E	27.3	203	9	15: 0	2.84E-02	1.19E-01	1.19E-01	TH	2166	315.	1.48E-07
7E	29.0	203	9	15: 0	2.49E-02	1.05E-01	1.05E-01	TH	2282	324.	1.39E-07
6E	30.7	203	9	15: 0	2.15E-02	9.15E-02	9.15E-02	TH	2397	333.	1.30E-07
5E	32.4	202	9	15: 0	1.84E-02	7.88E-02	7.88E-02	TH	2512	343.	1.19E-07
4E	34.1	202	9	15: 0	1.47E-02	6.36E-02	6.36E-02	TH	2628	352.	1.11E-07
3E	35.8	202	9	15: 0	1.13E-02	4.90E-02	4.90E-02	TH	2745	360.	1.02E-07
2E	37.5	201	9	15: 0	7.86E-03	3.42E-02	3.42E-02	TH	2863	369.	9.57E-08
1E	39.2	201	9	15: 0	2.18E-03	9.58E-03	9.58E-03	TH			

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 15:07
STABILITY CLASS D
ELEV: 2.5 MPH FROM 016 DEG
CURRENT PLUME INFORMATION AS OF 15:00 ON 83/01/19
ABBREVIATED PROJECTION

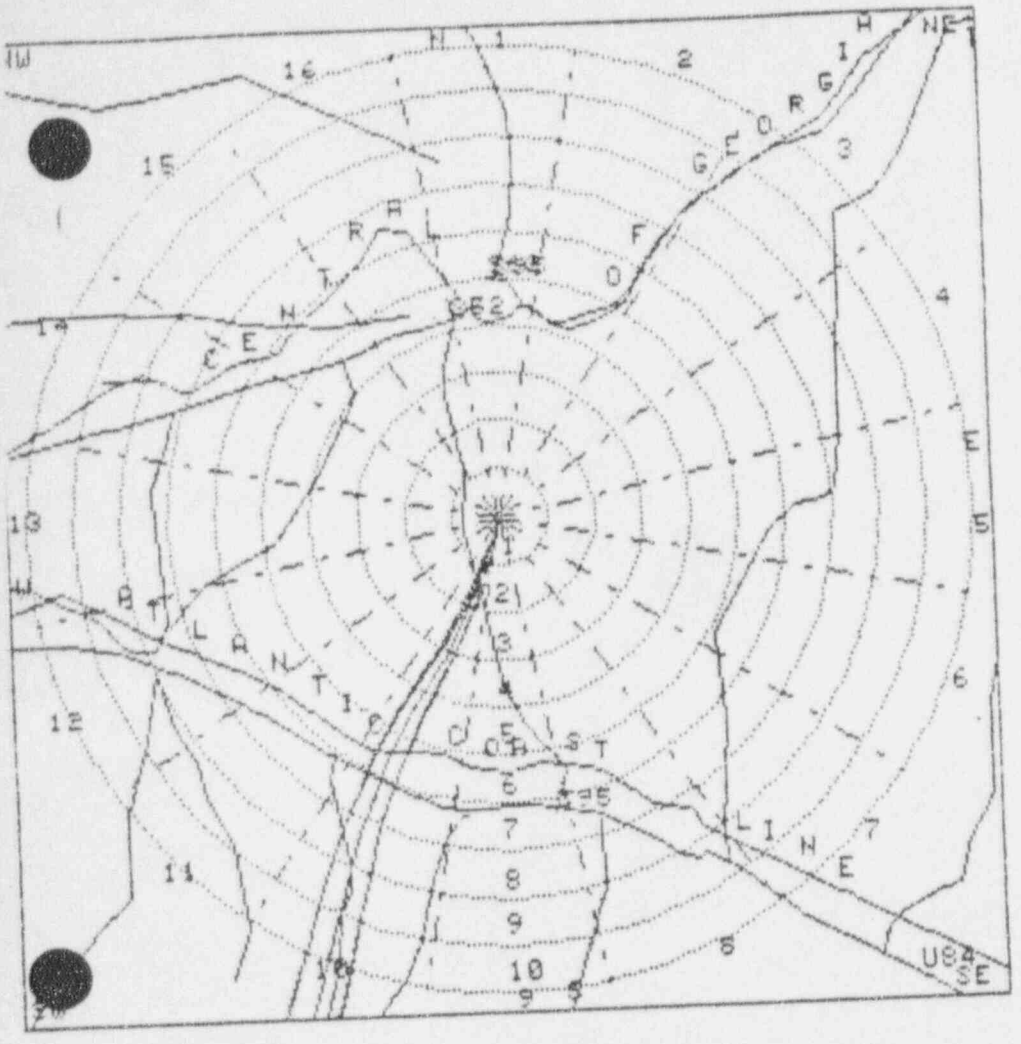
ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
28G	.6	196	9	15: 0	2.98E-14	4.04E-12	4.04E-12	TH	75.0	34.2	1.12E-04
28G	SB	196	9	15: 4	2.12E-14	2.87E-12	2.87E-12	TH	91.5	0.0	8.02E-05
28G	1.8	200	9	15: 0	5.94E-15	8.07E-13	8.07E-13	TH	132.	51.5	2.27E-05
26G	3.0	203	9	15: 0	2.03E-15	2.75E-13	2.75E-13	TH	232.	76.2	7.82E-06
25G	4.2	206	9	15: 0	1.17E-15	1.59E-13	1.59E-13	TH	337.	98.4	4.57E-06
24G	5.3	207	9	15: 0	7.93E-16	1.07E-13	1.07E-13	TH	429.	115.	3.12E-06
23G	6.3	207	9	15: 0	6.56E-16	8.89E-14	8.89E-14	TH	518.	130.	2.61E-06
22G	7.3	206	9	15: 0	5.37E-16	7.29E-14	7.29E-14	TH	594.	143.	2.16E-06
21G	7.9	205	9	15: 0	6.91E-16	9.38E-14	9.38E-14	TH	667.	154.	2.81E-06
20G	8.7	205	9	15: 0	4.55E-16	6.18E-14	6.18E-14	TH	712.	160.	1.87E-06
19G	9.8	204	9	15: 0	3.14E-16	4.26E-14	4.26E-14	TH	773.	169.	1.31E-06
18G	11.0	203	9	15: 0	2.21E-16	3.00E-14	3.00E-14	TH	849.	179.	9.36E-07
17G	12.4	202	9	15: 0	1.58E-16	2.15E-14	2.15E-14	TH	940.	191.	6.81E-07
16G	13.9	202	9	15: 0	1.34E-16	1.82E-14	1.82E-14	TH	1045	204.	5.85E-07
15G	15.3	202	9	15: 0	1.16E-16	1.57E-14	1.57E-14	TH	1147	216.	5.13E-07
14G	16.6	202	9	15: 0	1.01E-16	1.38E-14	1.38E-14	TH	1247	227.	4.58E-07
13G	19.3	204	9	15: 0	9.05E-17	1.22E-14	1.22E-14	TH	1344	237.	4.15E-07
12G	20.7	204	9	15: 0	6.70E-17	9.09E-15	9.09E-15	TH	1532	257.	3.13E-07
11G	22.2	204	9	15: 0	5.57E-17	7.56E-15	7.56E-15	TH	1633	267.	2.65E-07
10G	23.9	204	9	15: 0	4.63E-17	6.28E-15	6.28E-15	TH	1740	277.	2.25E-07
9G	25.6	204	9	15: 0	3.87E-17	5.25E-15	5.25E-15	TH	1853	287.	1.92E-07
8G	27.3	203	9	15: 0	3.45E-17	4.68E-15	4.68E-15	TH	1973	298.	1.75E-07
7G	29.0	203	9	15: 0	3.10E-17	4.21E-15	4.21E-15	TH	2092	308.	1.61E-07
6G	30.7	203	9	15: 0	2.79E-17	3.79E-15	3.79E-15	TH	2209	318.	1.49E-07
5G	32.4	202	9	15: 0	2.53E-17	3.43E-15	3.43E-15	TH	2324	328.	1.39E-07
4G	34.1	202	9	15: 0	2.25E-17	3.06E-15	3.06E-15	TH	2439	337.	1.27E-07
3G	35.8	202	9	15: 0	2.02E-17	2.74E-15	2.74E-15	TH	2554	346.	1.18E-07
2G	37.5	201	9	15: 0	1.80E-17	2.45E-15	2.45E-15	TH	2670	355.	1.09E-07
1G	39.2	201	9	15: 0	1.62E-17	2.19E-15	2.19E-15	TH	2787	364.	1.01E-07
1G	40.0	201	9	15:20	1.57E-17	2.13E-15	2.13E-15	TH	2842	0.0	9.81E-08
1G	50.0	200	9	19:24	1.12E-17	1.53E-15	1.53E-15	TH	3515	0.0	7.04E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 15:07
STABILITY CLASS D

DATE: 83/01/19
ELEV: 2.5 MPH FROM 016 DEG
CURRENT PLUME INFORMATION AS OF 15:00 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
28E	.6	196	9	15: 0	4.21E+01	2.44E+00	4.21E+01	WB	74.2	32.5	1.04E-06
28E	SB	196	9	15: 0	1.05E+02	6.08E+00	1.05E+02	WB	90.8	0.0	2.60E-06
28E	1.8	200	9	15: 0	2.25E+02	1.32E+01	2.25E+02	WB	179.	62.9	5.51E-06
28E	3.0	203	9	15: 0	1.95E+02	1.15E+01	1.95E+02	WB	287.	87.6	4.67E-06
28E	4.2	206	9	15: 0	1.48E+02	8.85E+00	1.48E+02	WB	381.	106.	3.48E-06
28E	5.3	207	9	15: 0	1.03E+02	6.20E+00	1.03E+02	WB	470.	122.	2.37E-06
28E	6.3	207	9	15: 0	9.40E+01	5.69E+00	9.40E+01	WB	547.	135.	2.10E-06
28E	7.3	206	9	15: 0	8.40E+01	5.13E+00	8.40E+01	WB	620.	146.	1.84E-06
28E	7.9	205	9	15: 0	1.10E+02	6.82E+00	1.10E+02	WB	666.	153.	2.37E-06
28E	8.7	205	9	15: 0	7.82E+01	4.87E+00	7.82E+01	WB	728.	162.	1.65E-06
28E	9.8	204	9	15: 0	5.59E+01	3.52E+00	5.59E+01	WB	804.	173.	1.16E-06
28E	11.0	203	9	15: 0	3.82E+01	2.43E+00	3.82E+01	WB	895.	185.	7.84E-07
28E	12.4	202	9	15: 0	2.79E+01	1.79E+00	2.79E+01	WB	1001	198.	5.68E-07
28E	13.9	202	9	15: 0	2.45E+01	1.59E+00	2.45E+01	WB	1103	210.	5.00E-07
28E	15.3	202	9	15: 0	2.14E+01	1.41E+00	2.14E+01	WB	1203	222.	4.46E-07
28E	16.6	202	9	15: 0	1.83E+01	1.21E+00	1.83E+01	WB	1300	232.	4.04E-07
28E	19.3	204	9	15: 0	1.32E+01	8.90E-01	1.32E+01	WB	1489	252.	3.35E-07
28E	20.7	204	9	15: 0	7.71E+00	5.24E-01	7.71E+00	WB	1590	262.	2.77E-07
28E	22.2	204	9	15: 0	1.70E+00	1.16E+01	1.16E+01	TH	1697	273.	2.35E-07
28E	23.9	204	9	15: 0	3.87E-02	1.60E-01	1.60E-01	TH	1811	283.	2.00E-07
28E	25.6	204	9	15: 0	3.21E-02	1.33E-01	1.33E-01	TH	1931	294.	1.71E-07
28E	27.3	203	9	15: 0	2.84E-02	1.19E-01	1.19E-01	TH	2049	305.	1.60E-07
28E	29.0	203	9	15: 0	2.49E-02	1.05E-01	1.05E-01	TH	2166	315.	1.48E-07
28E	30.7	203	9	15: 0	2.15E-02	9.15E-02	9.15E-02	TH	2282	324.	1.39E-07
28E	32.4	202	9	15: 0	1.84E-02	7.88E-02	7.88E-02	TH	2397	333.	1.30E-07
28E	34.1	202	9	15: 0	1.47E-02	6.36E-02	6.36E-02	TH	2512	343.	1.19E-07
28E	35.8	202	9	15: 0	1.13E-02	4.90E-02	4.90E-02	TH	2628	352.	1.11E-07
28E	37.5	201	9	15: 0	7.86E-03	3.42E-02	3.42E-02	TH	2745	360.	1.02E-07
28E	39.2	201	9	15: 0	2.18E-03	9.58E-03	9.58E-03	TH	2863	369.	9.57E-08
28E	40.0	201	9	15:20	2.11E-03	9.30E-03	9.30E-03	TH	2918	0.0	9.29E-08
28E	50.0	200	9	19:24	1.53E-03	6.75E-03	6.75E-03	TH	3590	0.0	6.74E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 15:06
ELEV: 2.5 MPH FROM 016 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 15:00

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON

5. ALL ON
6. ALL OFF
7. EXIT

JNTER CHOICE:

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 15:20
ELEV: 3.9 MPH FROM 010 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 15:15 ON 83/01/19

PRESENT LOCATION

ID	MILE	DEC	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
29G	1.0	190	8	15:15	9.84E-15	1.36E-12	1.36E-12	TH	108.	44.6	3.79E-05
29G	SB	190	8	15:15	1.32E-14	1.84E-12	1.84E-12	TH	91.5	0.0	5.10E-05
28G	1.6	192	9	15:15	5.66E-15	7.88E-13	7.88E-13	TH	194.	67.4	2.20E-05
27G	2.7	196	9	15:15	2.01E-15	2.80E-13	2.80E-13	TH	246.	79.5	7.93E-06
26G	4.0	200	9	15:15	1.03E-15	1.44E-13	1.44E-13	TH	339.	98.9	4.12E-06
25G	5.1	203	9	15:15	7.29E-16	1.01E-13	1.01E-13	TH	440.	117.	2.92E-06
24G	6.3	204	9	15:15	5.43E-16	7.54E-14	7.54E-14	TH	531.	133.	2.19E-06
23G	7.3	205	9	15:15	4.76E-16	6.63E-14	6.63E-14	TH	618.	146.	1.95E-06
22G	8.2	204	9	15:15	4.06E-16	5.65E-14	5.65E-14	TH	693.	157.	1.68E-06
21G	8.9	204	9	15:15	5.37E-16	7.47E-14	7.47E-14	TH	764.	167.	2.25E-06
20G	9.7	203	9	15:15	3.59E-16	4.99E-14	4.99E-14	TH	810.	174.	1.52E-06
19G	10.7	202	9	15:15	2.52E-16	3.51E-14	3.51E-14	TH	870.	182.	1.08E-06
18G	11.9	202	9	15:15	1.80E-16	2.51E-14	2.51E-14	TH	945.	191.	7.87E-07
17G	13.4	201	9	15:15	1.31E-16	1.83E-14	1.83E-14	TH	1036	202.	5.82E-07
16G	14.8	201	9	15:15	1.13E-16	1.57E-14	1.57E-14	TH	1140	215.	5.09E-07
15G	16.2	201	9	15:15	9.93E-17	1.38E-14	1.38E-14	TH	1241	226.	4.52E-07
14G	17.6	202	9	15:15	8.81E-17	1.22E-14	1.22E-14	TH	1340	237.	4.08E-07
13G	20.2	203	9	15:15	7.91E-17	1.10E-14	1.10E-14	TH	1437	247.	3.73E-07
12G	21.7	203	9	15:15	5.94E-17	8.26E-15	8.26E-15	TH	1624	266.	2.85E-07
11G	23.2	203	9	15:15	4.96E-17	6.90E-15	6.90E-15	TH	1725	275.	2.43E-07
10G	24.8	203	9	15:15	4.15E-17	5.77E-15	5.77E-15	TH	1831	285.	2.07E-07
9G	26.6	203	9	15:15	3.49E-17	4.85E-15	4.85E-15	TH	1945	296.	1.78E-07
8G	28.3	203	9	15:15	3.12E-17	4.34E-15	4.34E-15	TH	2064	306.	1.63E-07
7G	30.0	203	9	15:15	2.82E-17	3.92E-15	3.92E-15	TH	2182	316.	1.51E-07
6G	31.7	202	9	15:15	2.55E-17	3.54E-15	3.54E-15	TH	2299	326.	1.40E-07
5G	33.3	202	9	15:15	2.31E-17	3.22E-15	3.22E-15	TH	2415	335.	1.31E-07
4G	35.0	202	9	15:15	2.07E-17	2.88E-15	2.88E-15	TH	2529	344.	1.20E-07
3G	36.7	201	9	15:15	1.86E-17	2.58E-15	2.58E-15	TH	2644	353.	1.11E-07
2G	38.4	201	9	15:15	1.66E-17	2.31E-15	2.31E-15	TH	2760	362.	1.03E-07
1G	40.1	201	9	15:15	1.49E-17	2.08E-15	2.08E-15	TH	2876	370.	9.63E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

TIME: 15:20
STABILITY CLASS D

DATE: 83/01/19
ELEV: 3.9 MPH FROM 010 DEG

CURRENT PLUME INFORMATION AS OF 15:15 ON 83/01/19

PRESENT LOCATION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
29E	1.0	190	8	15:15	2.56E+01	1.53E+00	2.56E+01	WB	108.	43.3	6.81E-07
29E	SB	190	8	15:15	1.22E+02	7.31E+00	1.22E+02	WB	90.8	0.0	3.24E-06
28E	1.6	192	9	15:15	1.38E+02	8.35E+00	1.38E+02	WB	163.	58.9	3.58E-06
28E	2.7	196	9	15:15	1.65E+02	1.01E+01	1.65E+02	WB	261.	82.0	4.23E-06
27E	4.0	200	9	15:15	1.30E+02	8.03E+00	1.30E+02	WB	364.	103.	3.26E-06
25E	5.1	203	9	15:15	9.87E+01	6.12E+00	9.87E+01	WB	456.	120.	2.42E-06
24E	6.3	204	9	15:15	7.80E+01	4.88E+00	7.80E+01	WB	544.	134.	1.87E-06
23E	7.3	205	9	15:15	7.62E+01	4.81E+00	7.62E+01	WB	620.	146.	1.78E-06
22E	8.2	204	9	15:15	6.77E+01	4.32E+00	6.77E+01	WB	693.	157.	1.55E-06
21E	8.9	204	9	15:15	9.11E+01	5.87E+00	9.11E+01	WB	738.	164.	2.01E-06
20E	9.7	203	9	15:15	6.48E+01	4.21E+00	6.48E+01	WB	799.	172.	1.43E-06
19E	10.7	202	9	15:15	4.48E+01	2.94E+00	4.48E+01	WB	875.	182.	9.77E-07
18E	11.9	202	9	15:15	3.25E+01	2.16E+00	3.25E+01	WB	965.	194.	7.00E-07
17E	13.4	201	9	15:15	2.40E+01	1.61E+00	2.40E+01	WB	1070	206.	5.13E-07
16E	14.8	201	9	15:15	2.13E+01	1.44E+00	2.13E+01	WB	1172	218.	4.55E-07
15E	16.2	201	9	15:15	1.88E+01	1.29E+00	1.88E+01	WB	1272	229.	4.10E-07
14E	17.6	202	9	15:15	1.61E+01	1.12E+00	1.61E+01	WB	1369	240.	3.74E-07
13E	20.2	203	9	15:15	1.15E+01	8.13E-01	1.15E+01	WB	1557	259.	3.07E-07
12E	21.7	203	9	15:15	6.90E+00	4.91E-01	6.90E+00	WB	1657	269.	2.60E-07
11E	23.2	203	9	15:15	1.53E+00	1.09E+01	1.09E+01	TH	1764	279.	2.22E-07
10E	24.8	203	9	15:15	3.50E-02	1.50E-01	1.50E-01	TH	1878	289.	1.89E-07
9E	26.6	203	9	15:15	2.91E-02	1.26E-01	1.26E-01	TH	1997	300.	1.63E-07
8E	28.3	203	9	15:15	2.58E-02	1.13E-01	1.13E-01	TH	2116	310.	1.52E-07
7E	30.0	203	9	15:15	2.27E-02	1.00E-01	1.00E-01	TH	2233	320.	1.41E-07
6E	31.7	202	9	15:15	1.96E-02	8.72E-02	8.72E-02	TH	2349	330.	1.33E-07
5E	33.3	202	9	15:15	1.68E-02	7.53E-02	7.53E-02	TH	2463	339.	1.24E-07
4E	35.0	202	9	15:15	1.35E-02	6.09E-02	6.09E-02	TH	2578	348.	1.15E-07
3E	36.7	201	9	15:15	1.03E-02	4.70E-02	4.70E-02	TH	2694	356.	1.06E-07
2E	38.4	201	9	15:15	7.23E-03	3.29E-02	3.29E-02	TH	2811	365.	9.90E-08
1E	40.1	201	9	15:15	2.01E-03	9.22E-03	9.22E-03	TH	2928	374.	9.24E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 15:21
STABILITY CLASS D
ELEV: 3.9 MPH FROM 010 DEG
CURRENT PLUME INFORMATION AS OF 15:15 ON 83/01/19
ABBREVIATED PROJECTION

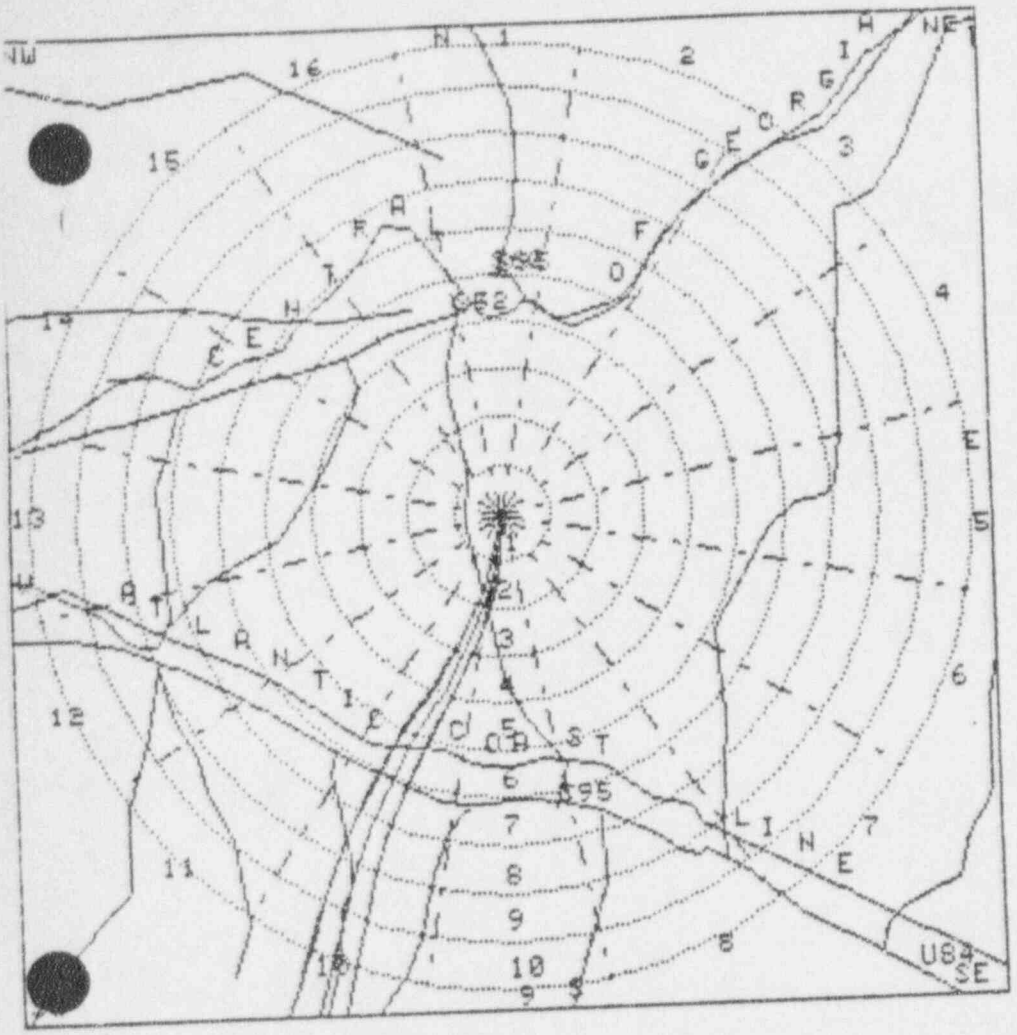
ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	DOSE RATE (MR/HR) THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	2.14*SIGMA Z	CHI/Q
JULIAN DAY = 19											
29G	1.0	190	8	15:15	9.84E-15	1.36E-12	1.36E-12	TH	108.	44.6	3.79E-05
29G	SB	190	8	15:15	1.32E-14	1.84E-12	1.84E-12	TH	91.5	0.0	5.10E-05
28G	1.6	192	9	15:15	5.66E-15	7.88E-13	7.88E-13	TH	194.	67.4	2.20E-05
27G	2.7	196	9	15:15	2.01E-15	2.80E-13	2.80E-13	TH	246.	79.5	7.93E-06
26G	4.0	200	9	15:15	1.03E-15	1.44E-13	1.44E-13	TH	339.	98.9	4.12E-06
25G	5.1	203	9	15:15	7.29E-16	1.01E-13	1.01E-13	TH	440.	117.	2.92E-06
24G	6.3	204	9	15:15	5.43E-16	7.54E-14	7.54E-14	TH	531.	133.	2.19E-06
23G	7.3	205	9	15:15	4.76E-16	6.63E-14	6.63E-14	TH	618.	146.	1.95E-06
22G	8.2	204	9	15:15	4.06E-16	5.65E-14	5.65E-14	TH	693.	157.	1.68E-06
21G	8.9	204	9	15:15	5.37E-16	7.47E-14	7.47E-14	TH	764.	167.	2.25E-06
20G	9.7	203	9	15:15	3.59E-16	4.99E-14	4.99E-14	TH	810.	174.	1.52E-06
19G	10.7	202	9	15:15	2.52E-16	3.51E-14	3.51E-14	TH	870.	182.	1.08E-06
18G	11.9	202	9	15:15	1.80E-16	2.51E-14	2.51E-14	TH	945.	191.	7.87E-07
17G	13.4	201	9	15:15	1.31E-16	1.83E-14	1.83E-14	TH	1036	202.	5.82E-07
16G	14.8	201	9	15:15	1.13E-16	1.57E-14	1.57E-14	TH	1140	215.	5.09E-07
15G	16.2	201	9	15:15	9.93E-17	1.38E-14	1.38E-14	TH	1241	226.	4.52E-07
14G	17.6	202	9	15:15	8.81E-17	1.22E-14	1.22E-14	TH	1340	237.	4.08E-07
13G	20.2	203	9	15:15	7.91E-17	1.10E-14	1.10E-14	TH	1437	247.	3.73E-07
12G	21.7	203	9	15:15	5.94E-17	8.26E-15	8.26E-15	TH	1624	266.	2.85E-07
11G	23.2	203	9	15:15	4.96E-17	6.90E-15	6.90E-15	TH	1725	275.	2.43E-07
10G	24.8	203	9	15:15	4.15E-17	5.77E-15	5.77E-15	TH	1831	285.	2.07E-07
9G	26.6	203	9	15:15	3.49E-17	4.85E-15	4.85E-15	TH	1945	296.	1.78E-07
8G	28.3	203	9	15:15	3.12E-17	4.34E-15	4.34E-15	TH	2064	306.	1.63E-07
7G	30.0	203	9	15:15	2.82E-17	3.92E-15	3.92E-15	TH	2182	316.	1.51E-07
6G	31.7	202	9	15:15	2.55E-17	3.54E-15	3.54E-15	TH	2299	326.	1.40E-07
5G	33.3	202	9	15:15	2.31E-17	3.22E-15	3.22E-15	TH	2415	335.	1.31E-07
4G	35.0	202	9	15:15	2.07E-17	2.88E-15	2.88E-15	TH	2529	344.	1.20E-07
3G	36.7	201	9	15:15	1.86E-17	2.58E-15	2.58E-15	TH	2644	353.	1.11E-07
2G	38.4	201	9	15:15	1.66E-17	2.31E-15	2.31E-15	TH	2760	362.	1.03E-07
1G	40.1	201	9	15:15	1.49E-17	2.08E-15	2.08E-15	TH	2876	370.	9.63E-08
1G	50.0	198	9	17:50	1.08E-17	1.50E-15	1.50E-15	TH	3549	0.0	6.94E-08

ACTUAL INCIDENT
FARLEY NUCLEAR PLANT

DATE: 83/01/19 TIME: 15:21
ELEV: 3.9 MPH FROM 010 DEG STABILITY CLASS D

CURRENT PLUME INFORMATION AS OF 15:15 ON 83/01/19
ABBREVIATED PROJECTION

ID	MILE	DEG	SEC	TIME	DOSE RATE (MR/HR) WHOLE BODY	THYROID	HIGH DOSE ORGAN DOSE RATE	ID	2.14*SIGMA Y	Z	CHI/Q
JULIAN DAY = 19											
29E	1.0	190	8	15:15	2.56E+01	1.53E+00	2.56E+01	WB	108.	43.3	6.81E-07
29E	SB	190	8	15:15	1.22E+02	7.31E+00	1.22E+02	WB	90.8	0.0	3.24E-06
28E	1.6	192	9	15:15	1.38E+02	8.35E+00	1.38E+02	WB	163.	58.9	3.58E-06
27E	2.7	196	9	15:15	1.65E+02	1.01E+01	1.65E+02	WB	261.	82.0	4.23E-06
26E	4.0	200	9	15:15	1.30E+02	8.03E+00	1.30E+02	WB	364.	103.	3.26E-06
25E	5.1	203	9	15:15	9.87E+01	6.12E+00	9.87E+01	WB	456.	120.	2.42E-06
24E	6.3	204	9	15:15	7.80E+01	4.88E+00	7.80E+01	WB	544.	134.	1.87E-06
23E	7.3	205	9	15:15	7.62E+01	4.81E+00	7.62E+01	WB	620.	146.	1.78E-06
22E	8.2	204	9	15:15	6.77E+01	4.32E+00	6.77E+01	WB	693.	157.	1.55E-06
21E	8.9	204	9	15:15	9.11E+01	5.87E+00	9.11E+01	WB	738.	164.	2.01E-06
20E	9.7	203	9	15:15	6.48E+01	4.21E+00	6.48E+01	WB	799.	172.	1.43E-06
19E	10.7	202	9	15:15	4.48E+01	2.94E+00	4.48E+01	WB	875.	182.	9.77E-07
18E	11.9	202	9	15:15	3.25E+01	2.16E+00	3.25E+01	WB	965.	194.	7.00E-07
17E	13.4	201	9	15:15	2.40E+01	1.61E+00	2.40E+01	WB	1070	206.	5.13E-07
16E	14.8	201	9	15:15	2.13E+01	1.44E+00	2.13E+01	WB	1172	218.	4.55E-07
15E	16.2	201	9	15:15	1.88E+01	1.29E+00	1.88E+01	WB	1272	229.	4.10E-07
14E	17.6	202	9	15:15	1.61E+01	1.12E+00	1.61E+01	WB	1369	240.	3.74E-07
13E	20.2	203	9	15:15	1.15E+01	8.13E-01	1.15E+01	WB	1557	259.	3.07E-07
12E	21.7	203	9	15:15	6.90E+00	4.91E-01	6.90E+00	WB	1657	269.	2.60E-07
11E	23.2	203	9	15:15	1.53E+00	1.09E+01	1.09E+01	TH	1764	279.	2.22E-07
10E	24.8	203	9	15:15	3.50E-02	1.50E-01	1.50E-01	TH	1878	289.	1.89E-07
9E	26.6	203	9	15:15	2.91E-02	1.26E-01	1.26E-01	TH	1997	300.	1.63E-07
8E	28.3	203	9	15:15	2.58E-02	1.13E-01	1.13E-01	TH	2116	310.	1.52E-07
7E	30.0	203	9	15:15	2.27E-02	1.00E-01	1.00E-01	TH	2233	320.	1.41E-07
6E	31.7	202	9	15:15	1.96E-02	8.72E-02	8.72E-02	TH	2349	330.	1.33E-07
5E	33.3	202	9	15:15	1.68E-02	7.53E-02	7.53E-02	TH	2463	339.	1.24E-07
4E	35.0	202	9	15:15	1.35E-02	6.09E-02	6.09E-02	TH	2578	348.	1.15E-07
3E	36.7	201	9	15:15	1.03E-02	4.70E-02	4.70E-02	TH	2694	356.	1.06E-07
2E	38.4	201	9	15:15	7.23E-03	3.29E-02	3.29E-02	TH	2811	365.	9.90E-08
1E	40.1	201	9	15:15	2.01E-03	9.22E-03	9.22E-03	TH	2928	374.	9.24E-08
1E	50.0	198	9	17:50	1.46E-03	6.70E-03	6.70E-03	TH	3601	0.0	6.71E-08



ACTUAL INCIDENT
FARLEY NUCLEAR PLANT
DATE: 83/01/14 -DAY- TIME: 15:23
ELEV: 3.9 MPH FROM 010 DEG, CLASS D
DATE: 83/01/14 -PLUME- TIME: 15:15

ROADS AND RAILROADS

TOGGLE	STATUS
1. FEDERAL ROADS	ON
2. STATE ROADS	ON
3. COUNTY ROADS	ON
4. RAILROADS	ON
5. ALL ON	
6. ALL OFF	
7. EXIT	

ENTER CHOICE:

1% FAILED FUEL ①

PLANT VENT STACK ACTIVITY

(CTMT PURGE ACTIVITY [CONC.] = PVS conc × 20)

FAILED FUEL
ELASPSED TIME - 7.5MINUTES
Release Rate - 1.4100E-06
Stack flow - 78000 CFM

ISOTOPE	uCi/ml in PVS	
KR-85	9.7661E-06	
KR-85M	4.1303E-04	
KR-87	7.6910E-04	
KR-88	1.1512E-03	
I-131	8.3517E-06	X10⁻¹
I-132	1.1475E-05	X10⁻¹
I-133	1.6210E-05	X10⁻¹
I-134	1.6714E-05	X10⁻¹
I-135	1.4997E-05	X10⁻¹
XE-133	2.8771E-03	
XE-135	6.0163E-04	
TOTAL NOBLE GAS	5.8218E-03	
TOTAL uCi/ML=	5.8895E-03	
RE-14 CPM=	5.2238E 05	

8:15 15 min AVG

ELASPSED TIME - 15.0MINUTES
Release Rate - 3.7900E-06
Stack flow - 78000 CFM

ISOTOPE	uCi/ml in PVS	
KR-85	2.6251E-05	
KR-85M	1.0886E-03	
KR-87	1.9304E-03	
KR-88	3.0003E-03	
I-131	2.2439E-05	X10⁻¹
I-132	2.9755E-05	X10⁻¹
I-133	4.3392E-05	X10⁻¹
I-134	4.0707E-05	X10⁻¹
I-135	3.9795E-05	X10⁻¹
XE-133	7.7462E-03	
XE-135	1.6380E-03	
TOTAL NOBLE GAS	1.5430E-02	
TOTAL uCi/ML=	1.5606E-02	
RE-14 CPM=	1.7617E 06	

8:15 INSTANTANEOUS

ELASPSED TIME - 22.5MINUTES
Release Rate - 4.7000E-06
Stack flow - 78000 CFM

ISOTOPE	uCi/ml in PVS	
KR-85	3.2554E-05	
KR-85M	1.3236E-03	
KR-87	2.2357E-03	
KR-88	3.6076E-03	
I-131	2.7814E-05	X10⁻¹
I-132	3.5535E-05	X10⁻¹
I-133	5.3589E-05	X10⁻¹
I-134	4.5740E-05	X10⁻¹
I-135	4.8718E-05	X10⁻¹
XE-133	9.6217E-03	
XE-135	2.0563E-03	
TOTAL NOBLE GAS	1.8878E-02	
TOTAL uCi/ML=	1.9089E-02	
RE-14 CPM=	2.2919E 06	

8:30 15 MIN AVG

ELASPSED TIME - 30.0MINUTES
Release Rate - 5.4500E-06
Stack flow - 78000 CFM

ISOTOPE	uCi/ml in PVS	
KR-85	3.7746E-05	
KR-85M	1.5048E-03	
KR-87	2.4211E-03	
KR-88	4.0563E-03	
I-131	3.2238E-05	X10⁻¹
I-132	3.9681E-05	X10⁻¹
I-133	6.1884E-05	X10⁻¹
I-134	4.8057E-05	X10⁻¹
I-135	5.5748E-05	X10⁻¹
XE-133	1.1175E-02	
XE-135	2.4126E-03	
TOTAL NOBLE GAS	2.1608E-02	
TOTAL uCi/ML=	2.1845E-02	
RE-14 CPM=	2.7394E 06	

8:30 INSTANTANEOUS

ELASPSED TIME - 37.5MINUTES
Release Rate - 6.2200E-06
Stack flow - 78000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	4.3083E-05
KR-85M	1.6839E-03
KR-87	2.5805E-03
KR-88	4.4886E-03

8:45 15 MIN AVG

KR-88	4.4886E-03
I-131	3.6776E-05
I-132	4.3813E-05
I-133	7.0337E-05
I-134	4.9695E-05
I-135	6.2832E-05
XE-133	1.3774E-02
XE-135	3.7845E-03
TOTAL NOBLE GAS	2.4335E-02
TOTAL uCi/ML=	2.7810E-02
RE-14 CPM=	3.2134E 06

x10⁻¹

8:45 15 MIN AVG

ELASPSED TIME - 45.0MINUTES
Release Rate - 6.8500E-06
Stack flow - 78000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	4.7445E-05
KR-85M	1.8182E-03
KR-87	2.6542E-03
KR-88	4.7931E-03
I-131	4.0483E-05
I-132	4.6254E-05
I-133	7.7142E-05
I-134	4.9588E-05
I-135	6.8310E-05
XE-133	1.4090E-02
XE-135	3.0996E-03
TOTAL NOBLE GAS	2.6503E-02
TOTAL uCi/ML=	2.6785E-02
RE-14 CPM=	3.5995E 06

x10⁻¹

8:45 INSTANTANEOUS

ELASPSED TIME - 52.5MINUTES
Release Rate - 7.4800E-06
Stack flow - 78000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	5.1809E-05
KR-85M	1.9466E-03
KR-87	2.7067E-03
KR-88	5.0748E-03
I-131	4.4187E-05
I-132	5.0870E-05
I-133	8.3890E-05
I-134	4.9062E-05
I-135	7.3637E-05
XE-133	1.5410E-02
XE-135	3.4196E-03
TOTAL NOBLE GAS	2.8610E-02
TOTAL uCi/ML=	2.8707E-02
RE-14 CPM=	3.9913E 06

x10⁻¹

9:00 15 MIN AVG

ELASPSED TIME - 60.0MINUTES
Release Rate - 8.0100E-06
Stack flow - 78000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	5.5480E-05
KR-85M	2.0438E-03
KR-87	2.7069E-03
KR-88	5.2693E-03
I-131	4.7296E-05
I-132	5.0160E-05
I-133	8.9464E-05
I-134	4.7604E-05
I-135	7.7844E-05
XE-133	1.6528E-02
XE-135	3.6980E-03
TOTAL NOBLE GAS	3.0302E-02
TOTAL uCi/ML=	3.0614E-02
RE-14 CPM=	4.3147E 06

x10⁻¹

9:00 INSTANTANEOUS

ELASPSED TIME - 67.5MINUTES
Release Rate - 8.5300E-06
Stack flow - 78000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	5.9081E-05
KR-85M	2.1340E-03
KR-87	2.6922E-03
KR-88	5.4409E-03
I-131	5.0344E-05
I-132	5.3731E-05
I-133	9.4830E-05
I-134	4.5932E-05
I-135	8.1830E-05
XE-133	1.7608E-02
XE-135	3.9388E-03
TOTAL NOBLE GAS	3.2288E-02
TOTAL uCi/ML=	3.2593E-02
RE-14 CPM=	4.6334E 06

x10⁻¹

9:15 15 MIN AVG

ELASPSED TIME - 75.0MINUTES

1% FAILED FUEL

ELASPSED TIME - 75.0MINUTES
Release Rate - 8.9600E-06
Stack flow - 78000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	6.2059E-05
KR-85M	3.1978E-03
KR-87	2.6410E-03
KR-88	5.5415E-03
I-131	5.2858E-05
I-132	5.2036E-05
I-133	9.9253E-05
I-134	4.3716E-05
I-135	8.4860E-05
XE-133	1.8545E-02
XE-135	4.2132E-03
TOTAL NOBLE GAS	3.3201E-02
TOTAL uCi/ML=	3.3533E-02
RE-14 CPM=	4.8870E 06

(I-131 – I-135) X10⁻¹ 9:15 INSTANTANEOUS

ELASPSED TIME - 82.5MINUTES
Release Rate - 9.3900E-06
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	6.4214E-05
KR-85M	3.2297E-03
KR-87	3.5521E-03
KR-88	5.5597E-03
I-131	5.4669E-05
I-132	[illegible]
I-133	1.0228E-04
I-134	4.0985E-05
I-135	8.6682E-05
XE-133	1.9218E-02
XE-135	4.3971E-03
TOTAL NOBLE GAS	3.4021E-02
TOTAL uCi/ML=	3.4358E-02
RE-14 CPM=	5.0527E 06

(I-131 – I-135) X10⁻¹ 9:30 15 MIN AVG

ELASPSED TIME - 90.0MINUTES
Release Rate - 9.7300E-06
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	6.6539E-05
KR-85M	3.2653E-03
KR-87	3.4697E-03
KR-88	5.5860E-03
I-131	5.6623E-05
I-132	5.1742E-05
I-133	1.0554E-04
I-134	3.8480E-05
I-135	8.8670E-05
XE-133	1.9944E-02
XE-135	4.5938E-03
TOTAL NOBLE GAS	3.4926E-02
TOTAL uCi/ML=	3.5267E-02
RE-14 CPM=	5.2375E 06

(I-131 – I-135) X10⁻¹ 9:30 INSTANTANEOUS

ELASPSED TIME - 97.5MINUTES
Release Rate - 1.0100E-05
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	6.9070E-05
KR-85M	3.3055E-03
KR-87	3.3942E-03
KR-88	5.6222E-03
I-131	5.8750E-05
I-132	[illegible]
I-133	1.0911E-04
I-134	3.6192E-05
I-135	9.0862E-05
XE-133	2.0734E-02
XE-135	4.8061E-03
TOTAL NOBLE GAS	3.5931E-02
TOTAL uCi/ML=	[illegible]
RE-14 CPM=	5.4455E 06

(I-131 – I-135) X10⁻¹ 9:45 15 MIN AVG

ELASPSED TIME - 105.0MINUTES
Release Rate - [illegible].0400E-05
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	7.1121E-05
KR-85M	[illegible]
KR-87	[illegible]
KR-88	[illegible]
I-131	[illegible]
I-132	[illegible]
I-133	[illegible]
I-134	[illegible]

(I-131 – I-135) X10⁻¹ 945 INSTANTANEOUS

1 % FAILED FUEL (4)

I-135 7.2363E-05
XE-133 2.1381E-02
XE-135 4.9860E-03
TOTAL NOBLE GAS 3.6682E-02
TOTAL uCi/mL= 3.7031E-02
RE-14 CPM= 5.6024E 06

ELASPSED TIME - 112.5MINUTES
Release Rate - 1.0600E-05
Stack flow - 79000 CFM
ISOTOPE uCi/ml in PVS
KR-85 7.2489E-05
KR-85M 2.3260E-03
KR-87 2.1916E-03
KR-88 5.5474E-03
I-131 6.1603E-05 ⎫ x10⁻¹ 10:00 15 MIN AVG
I-132 [illegible]
I-133 1.1352E-04
I-134 3.1183E-05
I-135 9.2933E-05 ⎭
XE-133 2.1824E-02
XE-135 5.1184E-03
TOTAL NOBLE GAS 3.7080E-02
TOTAL uCi/mL= [illegible]
RE-14 CPM= 5.6859E 06

ELASPSED TIME - 120.0MINUTES
Release Rate - 1.0900E-05
Stack flow - 79000 CFM
ISOTOPE uCi/ml in PVS
KR-85 7.4540E-05
KR-85M 2.3451E-03
KR-87 2.1047E-03
KR-88 5.5311E-03
I-131 6.3318E-05 ⎫ x10⁻¹ 10:00 INSTANTANEOUS
I-132 4.9853E-05
I-133 1.1630E-04
I-134 2.9054E-05
I-135 9.4339E-05 ⎭
XE-133 2.2475E-02
XE-135 5.2993E-03
TOTAL NOBLE GAS 3.7829E-02
TOTAL uCi/mL= 3.8182E-02
RE-14 CPM= 5.8447E 06

ELASPSED TIME - 127.5MINUTES
Release Rate - 1.1100E-05
Stack flow - 79000 CFM
ISOTOPE uCi/ml in PVS
KR-85 7.5908E-05
KR-85M 2.3415E-03
KR-87 2.0016E-03
KR-88 5.4614E-03
I-131 6.4451E-05 ⎫ x10⁻¹ 10:15 15 MIN AVG
I-132 [illegible]
I-133 1.1795E-04
I-134 2.6808E-05
I-135 9.4839E-05 ⎭
XE-133 2.2920E-02
XE-135 5.4317E-03
TOTAL NOBLE GAS 3.8232E-02
TOTAL uCi/mL= [illegible]
RE-14 CPM= 5.9304E 06

ELASPSED TIME - 135.0MINUTES
Release Rate - 1.1200E-05
Stack flow - 79000 CFM
ISOTOPE uCi/ml in PVS
KR-85 7.6592E-05
KR-85M 2.3165E-03
KR-87 1.8862E-03
KR-88 5.3432E-03
I-131 6.5003E-05 ⎫ x10⁻¹ 10:15 INSTANTANEOUS
I-132 4.7506E-05
I-133 1.1852E-04
I-134 2.4508E-05
I-135 9.4468E-05 ⎭
XE-133 2.3160E-02
XE-135 5.5148E-03
TOTAL NOBLE GAS 3.8297E-02
TOTAL uCi/mL= 3.8647E-02
RE-14 CPM= 5.9435E 06

ELASPSED TIME - 142.5MINUTES
Release Rate - 1.1400E-05
Stack flow - 79000 CFM
ISOTOPE uCi/ml in PVS
KR-85 7.7959E-05
KR-85M [illegible]

1% FAILED FUEL (3)

Release Rate - 1.1400E-05
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS	
KR-85	7.7959E-05	
KR-85M	2.3118E-04	
KR-87	1.7930E-03	
KR-88	5.2734E-03	
I-131	6.6134E-05	X10^{-1} 10:30
I-132	4.6566E-05	
I-133	1.2014E-04	
I-134	2.2603E-05	
I-135	9.4923E-03	
XE-133	2.3607E-02	
XE-135	5.6466E-03	
TOTAL NOBLE GAS	3.8710E-02	
TOTAL uCi/ML=	5.9060E-02	
RE-14 CPM=	6.0318E 06	

15 MIN AVG

ELASPSED TIME - 150.0MINUTES
Release Rate - 1.1500E-05
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS	
KR-85	7.8643E-05	
KR-85M	2.2865E-03	
KR-87	1.6892E-03	
KR-88	5.1580E-03	
I-131	6.6684E-05	X10^{-1} 10:30
I-132	4.5238E-05	
I-133	1.2069E-04	
I-134	2.0659E-05	
I-135	9.4529E-03	
XE-133	2.3848E-02	
XE-135	5.7283E-03	
TOTAL NOBLE GAS	3.8788E-02	
TOTAL uCi/ML=	5.9136E-02	
RE-14 CPM=	6.0481E 06	

INSTANTANEOUS

5 wt% MELTED FUEL

NOTE: DIVIDE ALL VALUES BY 2

MELTED FUEL

ELASPSED TIME - 157.5MINUTES
Release Rate - 2.6600E-05
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS	
KR-85	5.4571E-03	
KR-85M	1.5556E-01	
KR-87	1.0947E-01	
KR-88	3.4704E-01	
I-131	8.1621E-03	} x10⁻¹
I-132	[illegible]	
I-133	1.4719E-02	
I-134	2.2922E-03	
I-135	1.1427E-02	
XE-133	1.7144E 00	
XE-135	4.9701E-01	
TOTAL NOBLE GAS	2.8290E 00	
TOTAL uCi/ML=	2.8709E 00	
RE-14 CPM=	5.8579E 09	

10:45 15 MIN AVG

ELASPSED TIME - 165.0MINUTES
Release Rate - 6.7600E-05
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS	
KR-85	1.3868E-02	
KR-85M	3.8762E-01	
KR-87	2.5981E-01	
KR-88	8.5516E-01	
I-131	2.0734E-02	} x10⁻¹
I-132	1.3056E-02	
I-133	3.7251E-02	
I-134	5.2782E-03	
I-135	2.8669E-02	
XE-133	4.3694E 00	
XE-135	1.2772E 00	
TOTAL NOBLE GAS	7.1631E 00	
TOTAL uCi/ML=	7.2680E 00	
RE-14 CPM=	3.2977E 10	

10:45 INSTANTANEOUS

ELASPSED TIME - 172.5MINUTES
Release Rate - 1.0200E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS	
KR-85	2.0926E-02	
KR-85M	5.7344E-01	
KR-87	3.6612E-01	
KR-88	1.2511E 00	
I-131	3.1270E-02	} x10⁻³
I-132	1.6971E-02	
I-133	5.5976E-02	
I-134	7.2161E-03	
I-135	4.2703E-02	
XE-133	6.6115E 00	
XE-135	1.9477E 00	
TOTAL NOBLE GAS	1.0771E 01	
TOTAL uCi/ML=	1.0927E 01	
RE-14 CPM=	7.2347E 10	

11:00 15 MIN AVG

ELASPSED TIME - 180.0MINUTES
Release Rate - 1.2600E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS	
KR-85	2.5850E-02	
KR-85M	6.9453E-01	
KR-87	4.2237E-01	
KR-88	1.4985E 00	
I-131	3.8611E-02	} x10⁻³
I-132	2.2568E-02	
I-133	6.8862E-02	
I-134	9.0767E-03	
I-135	5.2075E-02	
XE-133	8.1901E 00	
XE-135	2.4305E 00	
TOTAL NOBLE GAS	1.3262E 01	
TOTAL uCi/ML=	1.3455E 01	
RE-14 CPM=	1.0868E 11	

11:00 INSTANTANEOUS

ELASPSED TIME - 187.5MINUTES
Release Rate - 1.4200E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	2.9337E-02
KR-85M	7.7264E-01
KR-87	4.4768E-01

KR-88	1.6471E 00
I-131	4.3801E-03
I-132	2.4666E-02
I-133	7.7831E-02
I-134	8.3054E-03
I-135	6.8344E-02
XE-133	1.3209E 00
XE-135	2.7854E 00
TOTAL NOBLE GAS	1.5005E 01
TOTAL uCi/ML=	1.5210E 01
RE-14 CPM=	1.3864E 11

x10⁻³

11:15 15 MIN AVG

NOTE: DIVIDE ALL VALUES BY 2

ELASPSED TIME - 195.0MINUTES
Release Rate - 1.5400E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	3.1594E-02
KR-85M	8.1604E-01
KR-87	4.5025E-01
KR-88	1.7219E 00
I-131	4.7149E-02
I-132	2.5581E-02
I-133	8.3473E-02
I-134	8.1042E-03
I-135	6.2027E-02
XE-133	1.0066E 01
XE-135	3.0276E 00
TOTAL NOBLE GAS	1.6113E 01
TOTAL uCi/ML=	1.6339E 01
RE-14 CPM=	1.5964E 11

x10⁻³

11:15 INSTANTANEOUS

ELASPSED TIME - 202.5MINUTES
Release Rate - 1.6200E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	3.3235E-02
KR-85M	8.4166E-01
KR-87	4.4234E-01
KR-88	1.7564E 00
I-131	4.9576E-02
I-132	2.7152E-02
I-133	8.7448E-02
I-134	7.7244E-03
I-135	6.4414E-02
XE-133	1.0617E 01
XE-135	3.2134E 00
TOTAL NOBLE GAS	1.7139E 01
TOTAL uCi/ML=	1.7356E 01
RE-14 CPM=	1.7556E 11

x10⁻³

11:30 15 MIN AVG

ELASPSED TIME - 210.0MINUTES
Release Rate - 1.6700E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	3.4261E-02
KR-85M	8.5069E-01
KR-87	4.2586E-01
KR-88	1.7556E 00
I-131	5.1083E-02
I-132	2.5727E-02
I-133	8.9776E-02
I-134	7.2149E-03
I-135	6.5551E-02
XE-133	1.0975E 01
XE-135	3.3408E 00
TOTAL NOBLE GAS	1.7388E 01
TOTAL uCi/ML=	1.7621E 01
RE-14 CPM=	1.8554E 11

x10⁻³

11:30 INSTANTANEOUS

ELASPSED TIME - 217.5MINUTES
Release Rate - 1.7000E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	3.4875E-02
KR-85M	8.4905E-01
KR-87	4.0486E-01
KR-88	1.7328E 00
I-131	5.1978E-02
I-132	2.5E-01
I-133	9.1012E-02
I-134	6.8546E-03
I-135	6.5874E-02
XE-133	1.1202E 01
XE-135	3.4285E 00
TOTAL NOBLE GAS	1.7
TOTAL uCi/ML=	1.7
RE-14 CPM=	1.9129E 11

x10⁻³

11:45 15MIN AVG

ELASPSED TIME - 225.0MINUTES

ELASPSED TIME - 225.0MINUTES
Release Rate - 1.7100E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS	
KR-85	3.5081E-02	
KR-85M	8.3736E-01	
KR-87	3.8032E-01	
KR-88	1.6900E 00	
I-131	5.4850E-02	X10-3
I-132	9.1170E-02	
I-133	6.0650E-03	
I-134	6.5413E-02	
I-135	4.1298E 01	
XE-133	3.4756E 00	
XE-135	1.7716E 01	
TOTAL NOBLE GAS	1.7955E 01	
TOTAL uCi/ML=	1.9263E 11	
RE-14 CPM=		

11:45 INSTANTANEOUS

NOTE: DIVIDE ALL VALUES BY 2.

ELASPSED TIME - 232.5MINUTES
Release Rate - 1.7200E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS	
KR-85	3.5266E-02	
KR-85M	8.2581E-01	
KR-87	3.5727E-01	
KR-88	1.6483E 00	
I-131	5.2542E-02	X10-3
I-132	9.1326E-02	
I-133	5.5275E-03	
I-134	6.4952E-02	
I-135	1.1394E 01	
XE-133	3.5219E 00	
XE-135	1.7782E 01	
TOTAL NOBLE GAS	1.8020E 01	
TOTAL uCi/ML=	1.9402E 11	
RE-14 CPM=		

12:00 15 MIN AVG

ELASPSED TIME - 240.0MINUTES
Release Rate - 1.7100E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS	
KR-85	3.5081E-02	
KR-85M	8.0497E-01	
KR-87	3.3172E-01	
KR-88	1.5889E 00	
I-131	5.2213E-02	X10-3
I-132	9.2657E-02	
I-133	9.0421E-03	
I-134	4.9792E-03	
I-135	6.3747E-02	
XE-133	1.1357E 01	
XE-135	3.5263E 00	
TOTAL NOBLE GAS	1.7644E 01	
TOTAL uCi/ML=	1.7878E 01	
RE-14 CPM=	1.9097E 11	

12:00 INSTANTANEOUS

ELASPSED TIME - 247.5MINUTES
Release Rate - 1.7000E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS	
KR-85	3.4876E-02	
KR-85M	7.8463E-01	
KR-87	3.0798E-01	
KR-88	1.5316E 00	
I-131	5.1884E-02	X10-3
I-132	9.1871E-02	
I-133	8.9522E-03	
I-134	4.4851E-03	
I-135	6.2583E-02	
XE-133	1.1320E 01	
XE-135	3.5295E 00	
TOTAL NOBLE GAS	1.7508E 01	
TOTAL uCi/ML=	1.7737E 01	
RE-14 CPM=	1.8801E 11	

12:15 15 MIN AVG

ELASPSED TIME - 255.0MINUTES
Release Rate - 1.6900E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS	
KR-85	3.4671E-02	
KR-85M	7.8478E-01	
KR-87	2.8594E-01	
KR-88	1.4763E 00	
I-131	5.1556E-02	X10-3
I-132	2.0766E-02	
I-133	8.8629E-03	
I-134	4.0399E-03	
I-135	6.1398E-02	
XE-133	1.1320E 01	
XE-135	3.5295E 00	
TOTAL NOBLE GAS	1.7508E 01	
TOTAL uCi/ML=	1.7737E 01	
RE-14 CPM=	1.8801E 11	

12:15 INSTANTANEOUS

I-133	6.1378E-02
XE-133	1.1282E 01
XE-135	3.5314E 00
TOTAL NOBLE GAS	1.7375E 01
TOTAL uCi/ML=	1.7602E 01
RE-14 CPM=	1.8513E 11

12:15 INSTANTANEOUS

ELASPSED TIME - 262.5MINUTES
Release Rate - 1.6700E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	3.4260E-02
KR-85M	2.4096E-01
KR-87	2.6388E-01
KR-88	1.4145E 00
I-131	5.0923E-02
I-132	1.9782E-02
I-133	8.7220E-02
I-134	3.6171E-03
I-135	5.9894E-02
XE-133	1.1177E 01
XE-135	3.5111E 00
TOTAL NOBLE GAS	1.7143E 01
TOTAL uCi/ML=	1.7385E 01
RE-14 CPM=	1.8016E 11

x10^{-3}

NOTE: DIVIDE ALL VALUES BY 2

12:30 15 MIN AVG

ELASPSED TIME - 270.0MINUTES
Release Rate - 1.6500E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	3.3850E-02
KR-85M	7.1779E-01
KR-87	2.4349E-01
KR-88	1.3551E 00
I-131	5.0290E-02
I-132	1.8803E-02
I-133	8.5820E-02
I-134	3.2381E-03
I-135	5.8419E-02
XE-133	1.1071E 01
XE-135	3.4894E 00
TOTAL NOBLE GAS	1.6911E 01
TOTAL uCi/ML=	1.7127E 01
RE-14 CPM=	1.7532E 11

x10^{-3}

12:30 INSTANTANEOUS

ELASPSED TIME - 277.5MINUTES
Release Rate - 1.6300E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	3.3440E-02
KR-85M	6.9524E-01
KR-87	2.2464E-01
KR-88	1.2980E 00
I-131	4.9659E-02
I-132	1.7808E-02
I-133	8.4431E-02
I-134	2.8934E-03
I-135	5.6971E-02
XE-133	1.0964E 01
XE-135	3.4664E 00
TOTAL NOBLE GAS	1.6682E 01
TOTAL uCi/ML=	1.6894E 01
RE-14 CPM=	1.7060E 11

x10^{-3}

12:45 15 MIN AVG

ELASPSED TIME - 285.0MINUTES
Release Rate - 1.6100E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	3.3029E-02
KR-85M	6.7339E-01
KR-87	2.0722E-01
KR-88	1.2431E 00
I-131	4.9022E-02
I-132	1.7015E-02
I-133	8.3053E-02
I-134	2.5939E-03
I-135	5.5551E-02
XE-133	1.0857E 01
XE-135	3.4425E 00
TOTAL NOBLE GAS	1.6450E 01
TOTAL uCi/ML=	1.6663E 01
RE-14 CPM=	1.6596E 11

x10^{-3}

12:45 INSTANTANEOUS

ELASPSED TIME - 292.5MINUTES
Release Rate - 1.5900E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	3.2612E-02
KR-85M	6.5194E-01
KR-87	1.9[illegible]E-01

13:00 15 MIN AVG

KR-87	1.9112E-01
KR-88	1.1904E 00
I-131	4.8397E-02
I-132	1.6182E-02
I-133	8.1632E-02
I-134	5.3211E-03
I-135	5.4158E-02
XE-133	1.0748E 01
XE-135	3.4164E 00
TOTAL NOBLE GAS	1.6234E 01
TOTAL uCi/ML=	1.6234E 01
RE-14 CPM=	1.6147E 11

x10⁻³

13:00 15 MIN AVG

NOTE: DIVIDE ALL VALUES BY 2

ELASPSED TIME - 300.0MINUTES
Release Rate - 1.5700E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	3.2209E-02
KR-85M	6.3116E-01
KR-87	1.7624E-01
KR-88	1.1397E 00
I-131	4.7766E-02
I-132	1.5388E-02
I-133	8.0323E-02
I-134	5.0266E-03
I-135	5.2792E-02
XE-133	1.0639E 01
XE-135	3.3896E 00
TOTAL NOBLE GAS	1.6008E 01
TOTAL uCi/ML=	1.6206E 01
RE-14 CPM=	1.5707E 11

x10⁻³

13:00 INSTANTANEOUS

ELASPSED TIME - 307.5MINUTES
Release Rate - 1.5500E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	3.1798E-02
KR-85M	6.1095E-01
KR-87	1.6250E-01
KR-88	1.0910E 00
I-131	4.6550E-02
I-132	1.4855E-02
I-133	7.8973E-02
I-134	4.8576E-03
I-135	5.1452E-02
XE-133	1.0529E 01
XE-135	3.3616E 00
TOTAL NOBLE GAS	1.5787E 01
TOTAL uCi/ML=	1.5981E 01
RE-14 CPM=	1.5276E 11

x10⁻³

13:15 15 MIN AVG

ELASPSED TIME - 315.0MINUTES
Release Rate - 1.5200E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	3.1183E-02
KR-85M	5.8742E-01
KR-87	1.4882E-01
KR-88	1.0374E 00
I-131	4.6204E-02
I-132	1.3816E-02
I-133	7.7120E-02
I-134	1.6505E-03
I-135	4.9810E-02
XE-133	1.0550E 01
XE-135	3.3107E 00
TOTAL NOBLE GAS	1.5466E 01
TOTAL uCi/ML=	1.5654E 01
RE-14 CPM=	1.4663E 11

x10⁻³

13:15 INSTANTANEOUS

ELASPSED TIME - 322.5MINUTES
Release Rate - 1.5000E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	3.0773E-02
KR-85M	5.6837E-01
KR-87	1.3710E-01
KR-88	9.9202E-01
I-131	4.4753E-02
I-132	1.3378E-02
I-133	7.4730E-02
I-134	4.8656E-03
XE-133	1.0233E 01
XE-135	3.2070E 00
TOTAL NOBLE GAS	1.5032E 01
TOTAL uCi/ML=	1.5223E 01
RE-14 CPM=	1.4253E 11

x10⁻³

13:30 15 MIN AVG

TOTAL uCi/ML= 1.5402E 01
RE-14 CPM= 1.4253E 11

ELASPSED TIME - 330.0MINUTES
Release Rate - 1.4800E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	3.0362E-02
KR-85M	5.4984E-01
KR-87	1.2639E-01
KR-88	9.4962E-01
I-131	4.4947E-02 } x10-3
I-132	1.2476E-02
I-133	7.4479E-02
I-134	1.3194E-03
I-135	4.7264E-02
XE-133	1.0126E 01
XE-135	3.2492E 00
TOTAL NOBLE GAS	1.5031E 01
TOTAL uCi/ML=	1.5212E 01
RE-14 CPM=	1.3852E 11

13:30 INSTANTANEOUS

NOTE: DIVIDE ALL VALUES BY 2.

ELASPSED TIME - 337.5MINUTES
Release Rate - 1.4600E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	2.9952E-02
KR-85M	5.3181E-01
KR-87	1.1644E-01
KR-88	9.0833E-01
I-131	4.4320E-02 } x10-3
I-132	1.1852E-02
I-133	7.3170E-02
I-134	1.1793E-03
I-135	4.6028E-02
XE-133	1.0012E 01
XE-135	3.2169E 00
TOTAL NOBLE GAS	1.4816E 01
TOTAL uCi/ML=	1.4972E 01
RE-14 CPM=	1.3460E 11

13:45 15 MIN AVG

ELASPSED TIME - 345.0MINUTES
Release Rate - 1.4400E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	2.9542E-02
KR-85M	5.1428E-01
KR-87	1.0725E-01
KR-88	8.6866E-01
I-131	4.3693E-02 } x10-3
I-132	1.1537E-02
I-133	7.1871E-02
I-134	1.0539E-03
I-135	4.4816E-02
XE-133	9.8980E 00
XE-135	3.1837E 00
TOTAL NOBLE GAS	1.4601E 01
TOTAL uCi/ML=	1.4774E 01
RE-14 CPM=	1.3075E 11

13:45 INSTANTANEOUS

ELASPSED TIME - 352.5MINUTES
Release Rate - 1.4100E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	2.8926E-02
KR-85M	4.9373E-01
KR-87	9.8078E-02
KR-88	8.2472E-01
I-131	4.2764E-02 } x10-3
I-132	1.0613E-02
I-133	7.0084E-02
I-134	9.3500E-04
I-135	4.3320E-02
XE-133	9.7142E 00
XE-135	3.1275E 00
TOTAL NOBLE GAS	1.4289E 01
TOTAL uCi/ML=	1.4432E 01
RE-14 CPM=	1.2522E 11

14:00 15 MIN AVG

ELASPSED TIME - 360.0MINUTES
Release Rate - 1.4000E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	2.8721E-02
KR-85M	4.8065E-01
KR-87	9.5942E-02
KR-88	8.0330E-01
I-131	4.2442E-02 } x10-3
I-132	1.0150E-02

14:00 INSTANTANEOUS

I-134	8.4117E-04	x10⁻³
I-135	4.2462E-02	
XE-133	9.6673E 00	
XE-135	3.1145E 00	
TOTAL NOBLE GAS	1.4176E 01	
TOTAL uCi/ML=	1.4341E 01	
RE-14 CPM=	1.2329E 11	

14:00 INSTANTANEOUS

ELASPSED TIME - 367.5MINUTES
Release Rate - 1.3700E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS	
KR-85	2.8106E-02	
KR-85M	4.6116E-01	
KR-87	8.3116E-02	
KR-88	7.5337E-01	
I-131	4.1514E-03	x10⁻³
I-132	9.5635E-03	
I-133	6.7536E-02	
I-134	7.4583E-04	
I-135	4.1020E-02	
XE-133	9.4816E 00	
XE-135	3.0563E 00	
TOTAL NOBLE GAS	1.3864E 01	
TOTAL uCi/ML=	1.4024E 01	
RE-14 CPM=	1.1797E 11	

14:15

NOTE: DIVIDE ALL VALUES BY 2

14:15 15 MIN AVG

ELASPSED TIME - 375.0MINUTES
Release Rate - 1.3500E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS	
KR-85	2.7695E-02	
KR-85M	4.4555E-01	
KR-87	7.6490E-02	
KR-88	7.1981E-01	
I-131	4.0889E-03	x10⁻³
I-132	9.0771E-03	
I-133	6.6276E-02	
I-134	6.6591E-04	
I-135	3.9903E-02	
XE-133	9.3642E 00	
XE-135	3.0196E 00	
TOTAL NOBLE GAS	1.3653E 01	
TOTAL uCi/ML=	1.3810E 01	
RE-14 CPM=	1.1445E 11	

14:15 INSTANTANEOUS

ELASPSED TIME - 382.5MINUTES
Release Rate - 1.3300E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS	
KR-85	2.7285E-02	
KR-85M	4.3038E-01	
KR-87	7.0376E-02	
KR-88	6.8760E-01	
I-131	4.0255E-03	x10⁻³
I-132	8.6114E-03	
I-133	6.5025E-02	
I-134	5.9442E-04	
I-135	3.8808E-02	
XE-133	9.2460E 00	
XE-135	2.9821E 00	
TOTAL NOBLE GAS	1.3447E 01	
TOTAL uCi/ML=	1.3597E 01	
RE-14 CPM=	1.1100E 11	

14:30

14:30 15 MIN AVG

ELASPSED TIME - 390.0MINUTES
Release Rate - 1.3100E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS	
KR-85	2.6875E-02	
KR-85M	4.1580E-01	
KR-87	6.4737E-02	
KR-88	6.5668E-01	
I-131	3.9643E-03	x10⁻³
I-132	8.1087E-03	
I-133	6.3784E-02	
I-134	5.4492E-04	
I-135	3.7703E-02	
XE-133	9.1271E 00	
XE-135	2.9439E 00	
TOTAL NOBLE GAS	1.3238E 01	
TOTAL uCi/ML=	1.3385E 01	
RE-14 CPM=	1.0761E 11	

14:30 INSTANTANEOUS

ELASPSED TIME - 397.5MINUTES
Release Rate - 1.2900E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS	
KR-85	2.6482E-02	
KR-85M	4.0988E-01	
KR-87	6.3811E-02	
KR-88	6.4744E-01	
I-131	3.9085E-03	x10⁻³
I-132	7.9949E-03	
I-133	6.2881E-02	
I-134	5.0049E-04	
I-135	3.7170E-02	
XE-133	8.9982E 00	
XE-135	2.9017E 00	
TOTAL NOBLE GAS	1.3049E 01	
TOTAL uCi/ML=	1.3194E 01	
RE-14 CPM=	1.0607E 11	

14:45

14:45 15 MIN AVG

KR-88	2.6481E-03
KR-85M	4.0129E-01
KR-87	5.9536E-02
KR-88	6.6701E-01
I-131	2.0102E-03
I-132	7.7405E-03
I-133	6.2551E-02
I-134	1.7833E-04
I-135	6.6630E-02
XE-133M	9.0075E-02
XE-133	2.9056E 00
XE-135	1.3027E 00
TOTAL NOBLE GAS	1.0174E 01
TOTAL uCi/ML=	1.0430E 11
RE-14 CPM=	

x10⁻³

14:45 15 MIN AVG

NOTE: DIVIDE ALL VALUES BY 2

ELASPSED TIME - 405.0MINUTES
Release Rate - 1.2600E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	2.6259E-02
KR-85M	3.9040E-01
KR-87	5.5170E-02
KR-88	6.1802E-01
I-131	1.8622E-03
I-132	7.1811E-03
I-133	5.7954E-02
I-134	1.6527E-04
I-135	6.1722E-02
XE-133M	8.3571E-02
XE-133	2.6880E 00
XE-135	1.2920E 00
TOTAL NOBLE GAS	1.3064E 01
TOTAL uCi/ML=	1.0261E 11
RE-14 CPM=	

x10⁻³

14:45 INSTANTANEOUS

ELASPSED TIME - 412.5MINUTES
Release Rate - 1.2600E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	2.5849E-02
KR-85M	3.7679E-01
KR-87	5.0719E-02
KR-88	6.7578E-01
I-131	1.8078E-03
I-132	7.0170E-03
I-133	5.6594E-02
I-134	1.7954E-04
I-135	6.4918E-02
XE-133M	8.8362E 00
XE-133	2.8478E 00
XE-135	1.2715E 01
TOTAL NOBLE GAS	1.2854E 01
TOTAL uCi/ML=	9.9390E 10
RE-14 CPM=	

x10⁻³

15:00 15 MIN AVG

ELASPSED TIME - 420.0MINUTES
Release Rate - 1.2400E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	2.5438E-02
KR-85M	3.6557E-01
KR-87	4.9616E-02
KR-88	6.4942E-01
I-131	1.7457E-03
I-132	6.8503E-03
I-133	5.5827E-02
I-134	1.7380E-04
I-135	6.3824E-02
XE-133M	8.7145E 00
XE-133	2.8071E 00
XE-135	1.2507E 01
TOTAL NOBLE GAS	1.2644E 01
TOTAL uCi/ML=	9.8232E 10
RE-14 CPM=	

x10⁻³

15:00 INSTANTANEOUS

ELASPSED TIME - 427.5MINUTES
Release Rate - 1.2200E-04
Stack flow - 79000 CFM

ISOTOPE	uCi/ml in PVS
KR-85	2.5038E-02
KR-85M	3.5921E-01
KR-87	4.8822E-02
KR-88	6.4413E-01
I-131	1.7014E-03
I-132	6.8169E-03
I-133	5.5170E-02
I-134	1.7010E-04
I-135	6.3124E-02
XE-133M	8.6202E 00
XE-133	2.7766E 00
XE-135	1.2373E 01
TOTAL NOBLE GAS	1.2504E 01
TOTAL uCi/ML=	9.7161E 10
RE-14 CPM=	

x10⁻³

15:15 15 MIN AVG

I-133	5.8189E-02	×10⁻³
I-134	1.0170E-04	
I-135	1.9468E-02	
XE-133	1.2933E 00	
XE-133M	1.2657E 00	
TOTAL NOBLE GAS	1.2301E 01	
TOTAL uCi/ML=	1.2420E 01	
RE-14 CPM=	9.3135E 10	

15:15

15 MIN AVG (14)

ELAPSED TIME - 435.0MINUTES

Release Rate = 1.2000E-04

Stack flow = 79000 CFM

ISOTOPE	uCi/ml	10 PVS
KR-85	0.0000E 00	
KR-85M	0.0000E 00	
KR-87	0.0000E 00	
KR-88	0.0000E 00	
I-131	0.0000E 00	
I-132	0.0000E 00	
I-133	0.0000E 00	
I-134	0.0000E 00	
I-135	0.0000E 00	
XE-133	0.0000E 00	
XE-135	0.0000E 00	
TOTAL NOBLE GAS	0.0000E 00	
TOTAL uCi/ML=	0.0000E 00	
RE-14 CPM=	0.0000E 00	

INSTANTANEOUS RCS CONCENTRATIONS

12 FAILED FUEL - MULITPLY all values by 10^{-2}

FAILED FUEL

ELASPSED TIME - 15.0MINUTES
RCS Conc. 7.8100E-01 ←

ISOTOPE	uCi/ml in PVS
KR-85	4.4257E 01
KR-85M	1.8353E 03
KR-87	3.2545E 03
KR-88	5.0582E 03
I-131	3.7830E-07
I-132	5.0165E-07
I-133	7.3155E-07
I-134	6.8629E-07
I-135	6.7091E-07
XE-133	1.3059E 04
XE-135	2.7615E 03
TOTAL NOBLE GAS	2.6013E 04
TOTAL uCi/ML=	2.9437E 04
RE-14 CPM=	7.6772E 18

8:15

ELASPSED TIME - 30.0MINUTES
RCS Conc. 6.7900E-01

ISOTOPE	uCi/ml in PVS
KR-85	3.8477E 01
KR-85M	1.5338E 03
KR-87	2.4678E 03
KR-88	4.1344E 03
I-131	3.2860E-07
I-132	4.0447E-07
I-133	6.3078E-07
I-134	4.8984E-07
I-135	5.6844E-07
XE-133	1.1391E 04
XE-135	2.4591E 03
TOTAL NOBLE GAS	2.2024E 04
TOTAL uCi/ML=	2.2024E 04
RE-14 CPM=	3.4898E 18

8:30

ELASPSED TIME - 45.0MINUTES
RCS Conc. 5.9000E-01

ISOTOPE	uCi/ml in PVS
KR-85	3.3433E 01
KR-85M	1.2812E 03
KR-87	1.8703E 03
KR-88	3.3775E 03
I-131	2.8527E-07
I-132	3.2594E-07
I-133	5.4360E-07
I-134	3.4943E-07
I-135	4.8136E-07
XE-133	9.9290E 03
XE-135	2.1842E 03
TOTAL NOBLE GAS	1.8676E 04
TOTAL uCi/ML=	1.8676E 04
RE-14 CPM=	2.2375E 18

8:45

ELASPSED TIME - 60.0MINUTES
RCS Conc. 5.1300E-01

ISOTOPE	uCi/ml in PVS
KR-85	2.9070E 01
KR-85M	1.0709E 03
KR-87	1.4184E 03
KR-88	2.7610E 03
I-131	2.4782E-05
I-132	2.6283E-05
I-133	4.6877E-05
I-134	2.4943E-05
I-135	4.0788E-05
XE-133	8.6602E 03
XE-135	1.9376E 03
TOTAL NOBLE GAS	1.5877E 04
TOTAL uCi/ML=	1.5877E 04
RE-14 CPM=	1.4484E 18

9:00

RCS

(2)

1% FAILED FUEL - MULTIPLY ALL VALUES BY 10^{-2}

ELASPSED TIME - 75.0MINUTES
RCS Conc. 4.4500E-01

ISOTOPE	uCi/ml in PVS
KR-85	2.5216E 01
KR-85M	8.9303E 02
KR-87	1.0731E 03
KR-88	2.2517E 03
I-131	2.1478E-03
I-132	2.1144E-03
I-133	4.0329E-03
I-134	1.7763E-01
I-135	3.4481E-01
XE-133	7.5354E 03
XE-135	1.7119E 03
TOTAL NOBLE GAS	1.3490E 04
TOTAL uCi/ML=	1.3491E 04
RE-14 CPM=	9.3876E 17

9:15

ELASPSED TIME - 90.0MINUTES
RCS Conc. 3.8700E-01

ISOTOPE	uCi/ml in PVS
KR-85	2.1930E 01
KR-85M	7.4659E 02
KR-87	8.1396E 02
KR-88	1.8410E 03
I-131	1.8662E 01
I-132	1.7053E 01
I-133	3.4784E 01
I-134	1.2682E 01
I-135	2.9223E 01
XE-133	6.5731E 03
XE-135	1.5140E 03
TOTAL NOBLE GAS	1.1511E 04
TOTAL uCi/ML=	1.1623E 04
RE-14 CPM=	6.3273E 17

9:30

ELASPSED TIME - 105.0MINUTES
RCS Conc. 3.3600E-01

ISOTOPE	uCi/ml in PVS
KR-85	1.9040E 01
KR-85M	6.2312E 02
KR-87	6.1637E 02
KR-88	1.5027E 03
I-131	1.6188E 01
I-132	1.3731E 01
I-133	2.9952E 01
I-134	9.0395E 00
I-135	2.4726E 01
XE-133	5.7239E 03
XE-135	1.3348E 03
TOTAL NOBLE GAS	9.8200E 03
TOTAL uCi/ML=	9.9136E 03
RE-14 CPM=	4.1628E 17

9:45

ELASPSED TIME - 120.0MINUTES
RCS Conc. 2.9200E-01

ISOTOPE	uCi/ml in PVS
KR-85	1.6546E 01
KR-85M	5.2057E 02
KR-87	4.6720E 02
KR-88	1.2278E 03
I-131	1.4055E 01
I-132	1.1066E 01
I-133	2.5816E 01
I-134	6.4493E 00
I-135	2.0941E 01
XE-133	4.9889E 03
XE-135	1.1763E 03
TOTAL NOBLE GAS	8.3973E 03
TOTAL uCi/ML=	8.4757E 03
RE-14 CPM=	2.7627E 17

10:00

RCS

1% FAILED FUEL - MULTIPLY ALL VALUES BY 10^{-2}

ELASPSED TIME - 135.0MINUTES
RCS Conc. 2.5400E-01

ISOTOPE	uCi/ml in PVS
KR-85	1.4393E 01
KR-85M	4.3531E 02
KR-87	3.5445E 02
KR-88	1.0041E 03
I-131	1.2215E 01
I-132	8.9274E 00
I-133	2.2272E 01
I-134	4.6056E 00
I-135	1.7752E 01
XE-133	4.3522E 03
XE-135	1.0363E 03
TOTAL NOBLE GAS	7.1968E 03
TOTAL uCi/ML=	7.2625E 03
RE-14 CPM=	1.8487E 17

10:15

ELASPSED TIME - 150.0MINUTES
RCS Conc. 2.2100E-01

ISOTOPE	uCi/ml in PVS
KR-85	1.2523E 01
KR-85M	3.6410E 02
KR-87	2.6899E 02
KR-88	8.2135E 02
I-131	1.0619E 01
I-132	7.2036E 00
I-133	1.9219E 01
I-134	3.2898E 00
I-135	1.5053E 01
XE-133	3.7975E 03
XE-135	9.1217E 02
TOTAL NOBLE GAS	6.1766E 03
TOTAL uCi/ML=	6.2320E 03
RE-14 CPM=	1.2446E 17

10:30

RCS

5% MELTED FUEL. MULTIPLY ALL VALUES BY .05

MELTED FUEL
ELASPSED TIME - 165.0MINUTES
RCS Conc. 6.5900E-01

ISOTOPE	uCi/ml in PVS
KR-85	1.1203E 03
KR-85M	3.1311E 04
KR-87	2.0987E 04
KR-88	6.9079E 04
I-131	1.6748E 03
I-132	1.0546E 03
I-133	3.0091E 03
I-134	4.2636E 02
I-135	2.3158E 03
XE-133	3.5295E 05
XE-135	1.0317E 05
TOTAL NOBLE GAS	5.7862E 05
TOTAL uCi/ML=	5.8710E 05
RE-14 CPM=	4.2643E 22

10:45

ELASPSED TIME - 180.0MINUTES
RCS Conc. 3.5300E-01

ISOTOPE	uCi/ml in PVS
KR-85	6.0009E 02
KR-85M	1.6123E 04
KR-87	9.8052E 03
KR-88	3.4788E 04
I-131	8.9633E 02
I-132	5.2392E 02
I-133	1.5986E 03
I-134	1.8750E 02
I-135	1.2089E 03
XE-133	1.9013E 05
XE-135	5.6423E 04
TOTAL NOBLE GAS	3.0787E 05
TOTAL uCi/ML=	3.1228E 05
RE-14 CPM=	6.4245E 21

11:00

ELASPSED TIME - 195.0MINUTES
RCS Conc. 1.8900E-01

ISOTOPE	uCi/ml in PVS
KR-85	3.2129E 02
KR-85M	8.2986E 03
KR-87	4.5788E 03
KR-88	1.7511E 04
I-131	4.7948E 02
I-132	2.6015E 02
I-133	8.[illegible]88E 02
I-134	8.2415E 01
I-135	6.3078E 02
XE-133	1.0236E 05
XE-135	3.0790E 04
TOTAL NOBLE GAS	1.6386E 05
TOTAL uCi/ML=	1.6616E 05
RE-14 CPM=	1.0080E 21

11:15

ELASPSED TIME - 210.0MINUTES
RCS Conc. 1.0100E-01

ISOTOPE	uCi/ml in PVS
KR-85	1.7170E 02
KR-85M	4.2632E 03
KR-87	2.1342E 03
KR-88	8.7978E 03
I-131	2.5600E 02
I-132	1.2893E 02
I-133	4.4990E 02
I-134	3.6157E 01
I-135	3.2850E 02
XE-133	5.4999E 04
XE-135	1.6742E 04
TAL NOBLE GAS	8.7108E 04
L uCi/ML=	8.8307E 04
RE-14 CPM=	1.6397E 20

11:30

(5)

RCS

5% MELTED FUEL - MULTIPLY ALL VALUES BY .05

ELASPSED TIME - 225.0MINUTES
RCS Conc. 5.4000E-02

ISOTOPE	uCi/ml in PVS
KR-85	9.1797E 01
KR-85M	2.1911E 03
KR-87	9.9520E 02
KR-88	4.4223E 03
I-131	1.3675E 02
I-132	6.3927E 01
I-133	2.3857E 02
I-134	1.5870E 01
I-135	1.7117E 02
XE-133	2.9563E 04
XE-135	9.0946E 03
TOTAL NOBLE GAS	4.6358E 04
TOTAL uCi/ML=	4.6984E 04
RE-14 CPM=	2.7842E 19

11:45

ELASPSED TIME - 240.0MINUTES
RCS Conc. 2.8900E-02

ISOTOPE	uCi/ml in PVS
KR-85	4.9128E 01
KR-85M	1.1273E 03
KR-87	4.6454E 02
KR-88	2.2251E 03
I-131	7.3120E 01
I-132	3.1729E 01
I-133	1.2663E 02
I-134	6.9729E 00
I-135	8.9273E 01
XE-133	1.5905E 04
XE-135	4.9383E 03
TOTAL NOBLE GAS	2.4709E 04
TOTAL uCi/ML=	2.5037E 04
RE-14 CPM=	4.9393E 18

12:00

ELASPSED TIME - 255.0MINUTES
RCS Conc. 1.5500E-02

ISOTOPE	uCi/ml in PVS
KR-85	2.6349E 01
KR-85M	5.8121E 02
KR-87	2.1730E 02
KR-88	1.1220E 03
I-131	3.9181E 01
I-132	1.5782E 01
I-133	6.7356E 01
I-134	3.0702E 00
I-135	4.6661E 01
XE-133	8.5743E 03
XE-135	2.6838E 03
TOTAL NOBLE GAS	1.3205E 04
TOTAL uCi/ML=	1.3377E 04
RE-14 CPM=	9.1786E 17

12:15

ELASPSED TIME - 270.0MINUTES
RCS Conc. 8.3000E-03

ISOTOPE	uCi/ml in PVS
KR-85	1.4109E 01
KR-85M	2.9919E 02
KR-87	1.0149E 02
KR-88	5.6484E 02
I-131	2.0962E 01
I-132	7.8374E 00
I-133	3.5772E 01
I-134	1.3497E 00
I-135	2.4350E 01
XE-133	4.6147E 03
XE-135	1.4545E 03
TOTAL NOBLE GAS	7.0488E 03
TOTAL uCi/ML=	7.1391E 03
RE-14 CPM=	1.7684E 17

12:30

RCS

(6)

5% MELTED FUEL - MULTIPLY ALL VALUES BY .05

ELASPSED TIME - 285.0MINUTES
RCS Conc. 4.1600E-03

ISOTOPE	uCi/ml in PVS
KR-85	7.0717E 00
KR-85M	1.4415E 02
KR-87	4.4366E 01
KR-88	2.6616E 02
I-131	1.0497E 01
I-132	3.6430E 00
I-133	1.7782E 01
I-134	5.5537E-01
I-135	1.1894E 01
XE-133	2.3245E 03
XE-135	7.3695E 02
TOTAL NOBLE GAS	3.5232E 03
TOTAL uCi/ML=	3.5676E 03
RE-14 CPM=	3.0009E 16

12:45

ELASPSED TIME - 300.0MINUTES
RCS Conc. 2.4000E-03

ISOTOPE	uCi/ml in PVS
KR-85	4.0798E 00
KR-85M	7.9948E 01
KR-87	2.2325E 01
KR-88	1.4436E 02
I-131	6.0505E 00
I-132	1.9491E 00
I-133	1.0174E 01
I-134	2.6304E-01
I-135	6.6871E 00
XE-133	1.3476E 03
XE-135	4.2935E 02
TOTAL NOBLE GAS	2.0277E 03
TOTAL uCi/ML=	2.0528E 03
RE-14 CPM=	7.5584E 15

13:00

ELASPSED TIME - 315.0MINUTES
RCS Conc. 1.3000E-03

ISOTOPE	uCi/ml in PVS
KR-85	2.2099E 00
KR-85M	4.1630E 01
KR-87	1.0547E 01
KR-88	7.3517E 01
I-131	3.2744E 00
I-132	9.7913E-01
I-133	5.4658E 00
I-134	1.1697E-01
I-135	3.5300E 00
XE-133	7.3350E 02
XE-135	2.3463E 02
TOTAL NOBLE GAS	1.0960E 03
TOTAL uCi/ML=	1.1094E 03
RE-14 CPM=	1.6871E 15

13:15

ELASPSED TIME - 330.0MINUTES
RCS Conc. 7.0000E-04

ISOTOPE	uCi/ml in PVS
KR-85	1.1899E 00
KR-85M	2.1549E 01
KR-87	4.9533E 00
KR-88	3.7217E 01
I-131	1.7616E 00
I-132	4.8895E-01
I-133	2.9190E 00
I-134	5.1708E-02
I-135	1.8524E 00
XE-133	3.9684E 02
XE-135	1.2734E 02
TOTAL NOBLE GAS	5.8909E 02
TOTAL uCi/ML=	5.9616E 02
RE-14 CPM=	3.8586E 14

13:30

(7)

RCS

5% MELTED FUEL - MULTIPLY ALL VALUES BY .05

ELASPSED TIME - 345.0MINUTES
RCS Conc. 4.0000E-04

ISOTOPE	uCi/ml in PVS
KR-85	6.7997E-01
KR-85M	1.1837E 01
KR-87	2.4687E 00
KR-88	1.9994E 01
I-131	1.0057E 00
I-132	2.5912E-01
I-133	1.6543E 00
I-134	2.4258E-02
I-135	1.0315E 00
XE-133	2.2783E 02
XE-135	7.3279E 01
TOTAL NOBLE GAS	3.3609E 02
TOTAL uCi/ML=	3.4006E 02
RE-14 CPM=	1.0510E 14

13:45

ELASPSED TIME - 360.0MINUTES
RCS Conc. 2.0000E-04

ISOTOPE	uCi/ml in PVS
KR-85	3.3998E-01
KR-85M	5.6897E 00
KR-87	1.0766E 00
KR-88	9.3988E 00
I-131	5.0240E-01
I-132	1.2015E-01
I-133	8.2034E-01
I-134	9.9573E-03
I-135	5.0264E-01
XE-133	1.1444E 02
XE-135	3.6868E 01
TOTAL NOBLE GAS	1.6781E 02
TOTAL uCi/ML=	1.6976E 02
RE-14 CPM=	2.1952E 13

14:00

ELASPSED TIME - 375.0MINUTES
RCS Conc. 1.0000E-04

ISOTOPE	uCi/ml in PVS
KR-85	1.6999E-01
KR-85M	2.7348E 00
KR-87	4.6949E-01
KR-88	4.4182E 00
I-131	2.5098E-01
I-132	5.5715E-02
I-133	4.0680E-01
I-134	4.0873E-03
I-135	2.4492E-01
XE-133	5.7477E 01
XE-135	1.8534E 01
TOTAL NOBLE GAS	8.3803E 01
TOTAL uCi/ML=	8.4766E 01
RE-14 CPM=	4.8123E 12

14:15

ELASPSED TIME - 390.0MINUTES
RCS Conc. 6.0000E-05

ISOTOPE	uCi/ml in PVS
KR-85	1.0199E-01
KR-85M	1.5774E 00
KR-87	2.4569E-01
KR-88	2.4923E 00
I-131	1.5045E-01
I-132	3.1002E-02
I-133	2.4207E-01
I-134	2.0133E-03
I-135	1.4321E-01
XE-133	3.4639E 01
XE-135	1.1173E 01
TOTAL NOBLE GAS	5.0230E 01
TOTAL uCi/ML=	5.0798E 01
RE-14 CPM=	1.6209E 12

14:30

RCS

5 % MELTED FUEL - MULTIPLY ALL VALUES BY .05

ELASPSED TIME - 405.0MINUTES
RCS Conc. 3.0000E-05

ISOTOPE	uCi/ml in PVS
KR-85	5.0997E-02
KR-85M	7.5818E-01
KR-87	1.0714E-01
KR-88	1.1716E 00
I-131	7.5158E-02
I-132	1.4376E-02
I-133	1.2004E-01
I-134	8.2643E-04
I-135	6.9784E-02
XE-133	1.7395E 01
XE-135	5.6087E 00
TOTAL NOBLE GAS	2.5092E 01
TOTAL uCi/ML=	2.5372E 01
RE-14 CPM=	3.8645E 11

14:45

ELASPSED TIME - 420.0MINUTES
RCS Conc. 2.0000E-05

ISOTOPE	uCi/ml in PVS
KR-85	3.3998E-02
KR-85M	4.8590E-01
KR-87	6.2300E-02
KR-88	7.3429E-01
I-131	5.0060E-02
I-132	8.8880E-03
I-133	7.9370E-02
I-134	4.5231E-04
I-135	4.5338E-02
XE-133	1.1647E 01
XE-135	3.7516E 00
TOTAL NOBLE GAS	1.6715E 01
TOTAL uCi/ML=	1.6899E 01
RE-14 CPM=	1.7070E 11

15:00

ELASPSED TIME - 435.0MINUTES
RCS Conc. 1.0000E-05

ISOTOPE	uCi/ml in PVS
KR-85	0.0000E 00
KR-85M	0.0000E 00
KR-87	0.0000E 00
KR-88	0.0000E 00
I-131	0.0000E 00
I-132	0.0000E 00
I-133	0.0000E 00
I-134	0.0000E 00
I-135	0.0000E 00
XE-133	0.0000E 00
XE-135	0.0000E 00
TOTAL NOBLE GAS	0.0000E 00
TOTAL uCi/ML=	0.0000E 00
RE-14 CPM=	0.0000E 00

INSTANTANEOUS CTMT. CONCENTRATIONS

17. FAILED FUEL - MULTIPLY ALL VALUES BY 10^{-2}

FAILED FUEL
ELASPSED TIME - 15.0MINUTES
CTMT Conc 2.1600E-01

ISOTOPE	uCi/ml in PVS
KR-85	5.7979E-02
KR-85M	2.4043E 00
KR-87	4.2636E 00
KR-88	6.6266E 00
I-131	4.9560E-02
I-132	6.5719E-02
I-133	9.5837E-02
I-134	8.9909E-02
I-135	8.7894E-02
XE-133	1.7109E 01
XE-135	3.6178E 00
TOTAL NOBLE GAS	3.4079E 01
TOTAL uCi/ML=	3.4468E 01
RE-14 CPM=	7.2331E 11

8:15

ELASPSED TIME - 30.0MINUTES
CTMT Conc 3.1100E-01

ISOTOPE	uCi/ml in PVS
KR-85	8.3479E-02
KR-85M	3.3278E 00
KR-87	5.3542E 00
KR-88	8.9701E 00
I-131	7.1293E-02
I-132	8.7753E-02
I-133	1.3685E-01
I-134	1.0628E-01
I-135	1.2333E-01
XE-133	2.4713E 01
XE-135	5.3353E 00
TOTAL NOBLE GAS	4.7784E 01
TOTAL uCi/ML=	4.8309E 01
RE-14 CPM=	1.4588E 12

8:30

ELASPSED TIME - 45.0MINUTES
CTMT Conc 3.9100E-01

ISOTOPE	uCi/ml in PVS
KR-85	1.0495E-01
KR-85M	4.0220E 00
KR-87	5.8712E 00
KR-88	1.0603E 01
I-131	8.9552E-02
I-132	1.0232E-01
I-133	1.7064E-01
I-134	1.0969E-01
I-135	1.5111E-01
XE-133	3.1169E 01
XE-135	6.8565E 00
TOTAL NOBLE GAS	5.8626E 01
TOTAL uCi/ML=	5.9249E 01
RE-14 CPM=	2.2419E 12

8:45

ELASPSED TIME - 60.0MINUTES
CTMT Conc 4.5700E-01

ISOTOPE	uCi/ml in PVS
KR-85	1.2267E-01
KR-85M	4.5190E 00
KR-87	5.9352E 00
KR-88	1.1651E 01
I-131	1.0457E-01
I-132	1.1091E-01
I-133	1.9781E-01
I-134	1.0525E-01
I-135	1.7212E-01
XE-133	3.6544E 01
XE-135	8.1763E 00
TOTAL NOBLE GAS	6.6998E 01
TOTAL uCi/ML=	6.7689E 01
RE-14 CPM=	2.9738E 12

9:00

CTMT

17. FAILED FUEL - MULTIPLY ALL VALUES BY 10^{-2}

ELASPSED TIME - 75.0MINUTES
CTMT Conc 5.1100E-01

ISOTOPE	uCi/ml in PVS
KR-85	1.3716E-01
KR-85M	4.8575E 00
KR-87	5.8370E 00
KR-88	1.2248E 01
I-131	1.1683E-01
I-132	1.1501E-01
I-133	2.1937E-01
I-134	9.6620E-02
I-135	1.8755E-01
XE-133	4.0988E 01
XE-135	9.3119E 00
TOTAL NOBLE GAS	7.3379E 01
TOTAL uCi/ML=	7.4115E 01
RE-14 CPM=	3.6085E 12

9:15

ELASPSED TIME - 90.0MINUTES
CTMT Conc 5.5600E-01

ISOTOPE	uCi/ml in PVS
KR-85	1.4924E-01
KR-85M	5.0808E 00
KR-87	5.5393E 00
KR-88	1.2529E 01
I-131	1.2700E-01
I-132	1.1605E-01
I-133	2.3672E-01
I-134	8.6307E-02
I-135	1.9838E-01
XE-133	4.4733E 01
XE-135	1.0303E 01
TOTAL NOBLE GAS	7.8334E 01
TOTAL uCi/ML=	7.9099E 01
RE-14 CPM=	4.1479E 12

9:30

ELASPSED TIME - 105.0MINUTES
CTMT Conc 5.9100E-01

ISOTOPE	uCi/ml in PVS
KR-85	1.5863E-01
KR-85M	5.1917E 00
KR-87	5.1355E 00
KR-88	1.2520E 01
I-131	1.3487E-01
I-132	1.1440E-01
I-133	2.4956E-01
I-134	7.5315E-02
I-135	2.0601E-01
XE-133	4.7690E 01
XE-135	1.1121E 01
TOTAL NOBLE GAS	8.1818E 01
TOTAL uCi/ML=	8.2598E 01
RE-14 CPM=	4.5516E 12

9:45

ELASPSED TIME - 120.0MINUTES
CTMT Conc 6.1900E-01

ISOTOPE	uCi/ml in PVS
KR-85	1.6615E-01
KR-85M	5.2273E 00
KR-87	4.6913E 00
KR-88	1.2329E 01
I-131	1.4114E-01
I-132	1.1112E-01
I-133	2.5923E-01
I-134	6.4760E-02
I-135	2.1028E-01
XE-133	5.0096E 01
XE-135	1.1812E 01
TOTAL NOBLE GAS	8.4322E 01
TOTAL uCi/ML=	8.5108E 01
RE-14 CPM=	4.8542E 12

10:00

(3)

CTMT

12 FAILED FUEL - MULTIPLY ALL VALUES BY 10^{-2}

ELASPSED TIME - 135.0MINUTES
CTMT Conc 6.4100E-01

ISOTOPE	uCi/ml in PVS
KR-85	1.7205E-01
KR-85M	5.2037E 00
KR-87	4.2371E 00
KR-88	1.2003E 01
I-131	1.4602E-01
I-132	1.0672E-01
I-133	2.6624E-01
I-134	5.5055E-02
I-135	2.1221E-01
XE-133	5.2026E 01
XE-135	1.2388E 01
TOTAL NOBLE GAS	8.6030E 01
TOTAL uCi/ML=	8.6816E 01
RE-14 CPM=	5.0663E 12

10:15

ELASPSED TIME - 150.0MINUTES
CTMT Conc 6.5700E-01

ISOTOPE	uCi/ml in PVS
KR-85	1.7635E-01
KR-85M	5.1272E 00
KR-87	3.7878E 00
KR-88	1.1566E 01
I-131	1.4953E-01
I-132	1.0144E-01
I-133	2.7064E-01
I-134	4.6327E-02
I-135	2.1197E-01
XE-133	5.3476E 01
XE-135	1.2845E 01
TOTAL NOBLE GAS	8.6979E 01
TOTAL uCi/ML=	8.7759E 01
RE-14 CPM=	5.1855E 12

10:30

CTMT

MELTED FUEL

ELASPSED TIME - 165.0MINUTES
CTMT Conc 3.3800E-01

ISOTOPE	uCi/ml in PVS
KR-85	2.7217E 00
KR-85M	7.6071E 01
KR-87	5.0989E 01
KR-88	1.6783E 02
I-131	4.0690E 00
I-132	2.5623E 00
I-133	7.3106E 00
I-134	1.0359E 00
I-135	5.6263E 00
XE-133	8.5751E 02
XE-135	2.5065E 02
TOTAL NOBLE GAS	1.4058E 03
TOTAL uCi/ML=	1.4264E 03
RE-14 CPM=	3.0984E 15

5% MELTED FUEL - MULTIPLY ALL VALUES BY .05

10:45

ELASPSED TIME - 180.0MINUTES
CTMT Conc 6.2900E-01

ISOTOPE	uCi/ml in PVS
KR-85	5.0650E 00
KR-85M	1.3609E 02
KR-87	8.2760E 01
KR-88	2.9363E 02
I-131	7.5654E 00
I-132	4.4221E 00
I-133	1.3493E 01
I-134	1.5826E 00
I-135	1.0204E 01
XE-133	1.6048E 03
XE-135	4.7624E 02
TOTAL NOBLE GAS	2.5985E 03
TOTAL uCi/ML=	2.6358E 03
E-14 CPM=	1.4049E 16

11:00

ELASPSED TIME - 195.0MINUTES
CTMT Conc 7.7200E-01

ISOTOPE	uCi/ml in PVS
KR-85	6.2165E 00
KR-85M	1.6057E 02
KR-87	8.8593E 01
KR-88	3.3881E 02
I-131	9.2771E 00
I-132	5.0334E 00
I-133	1.6424E 01
I-134	1.5946E 00
I-135	1.2205E 01
XE-133	1.9805E 03
XE-135	5.9573E 02
TOTAL NOBLE GAS	3.1704E 03
TOTAL uCi/ML=	3.2150E 03
RE-14 CPM=	2.3094E 16

11:15

ELASPSED TIME - 210.0MINUTES
CTMT Conc 8.3500E-01

ISOTOPE	uCi/ml in PVS
KR-85	6.7238E 00
KR-85M	1.6695E 02
KR-87	8.3576E 01
KR-88	3.4453E 02
I-131	1.0025E 01
I-132	5.0489E 00
I-133	1.7619E 01
I-134	1.4159E 00
I-135	1.2865E 01
XE-133	2.1538E 03
XE-135	6.5564E 02
NOBLE GAS	3.4112E 03
L uCi/ML=	3.4582E 03
RE-14 CPM=	2.7744E 16

11:30

CTMT

5% MELTED FUEL - MULTIPLY ALL VALUES BY .05

ELASPSED TIME - 225.0MINUTES
CTMT Conc 8.5600E-01

ISOTOPE	uCi/ml in PVS
KR-85	6.8928E 00
KR-85M	1.6453E 02
KR-87	7.4727E 01
KR-88	3.3206E 02
I-131	1.0268E 01
I-132	4.8001E 00
I-133	1.7913E 01
I-134	1.1917E 00
I-135	1.2852E 01
XE-133	2.2198E 03
XE-135	6.8289E 02
TOTAL NOBLE GAS	3.4809E 03
TOTAL uCi/ML=	3.5279E 03
RE-14 CPM=	2.9175E 16

11:45

ELASPSED TIME - 240.0MINUTES
CTMT Conc 8.5600E-01

ISOTOPE	uCi/ml in PVS
KR-85	6.8928E 00
KR-85M	1.5816E 02
KR-87	6.5176E 01
KR-88	3.1219E 02
I-131	1.0259E 01
I-132	4.4517E 00
I-133	1.7766E 01
I-134	9.7832E-01
I-135	1.2525E 01
XE-133	2.2315E 03
XE-135	6.9286E 02
TOTAL NOBLE GAS	3.4667E 03
TOTAL uCi/ML=	3.5127E 03
RE-14 CPM=	2.8860E 16

12:00

ELASPSED TIME - 255.0MINUTES
CTMT Conc 8.4400E-01

ISOTOPE	uCi/ml in PVS
KR-85	6.7962E 00
KR-85M	1.4991E 02
KR-87	5.6049E 01
KR-88	2.8939E 02
I-131	1.0106E 01
I-132	4.0706E 00
I-133	1.7373E 01
I-134	7.9190E-01
I-135	1.2035E 01
XE-133	2.2116E 03
XE-135	6.9222E 02
TOTAL NOBLE GAS	3.4059E 03
TOTAL uCi/ML=	3.4503E 03
RE-14 CPM=	2.7585E 16

12:15

ELASPSED TIME - 270.0MINUTES
CTMT Conc 8.2600E-01

ISOTOPE	uCi/ml in PVS
KR-85	6.6512E 00
KR-85M	1.4104E 02
KR-87	4.7843E 01
KR-88	2.6627E 02
I-131	9.8816E 00
I-132	3.6946E 00
I-133	1.6863E 01
I-134	6.3626E-01
I-135	1.1479E 01
XE-133	2.1754E 03
XE-135	6.8563E 02
TOTAL NOBLE GAS	3.3228E 03
TOTAL uCi/ML=	3.3654E 03
RE-14 CPM=	2.5907E 16

12:30

CTMT

5% MELTED FUEL - MULTIPLY ALL VALUES BY .05

ELASPSED TIME - 285.0MINUTES
CTMT Conc 8.0500E-01

ISOTOPE	uCi/ml in PVS
KR-85	6.4821E 00
KR-85M	1.3214E 02
KR-87	4.0667E 01
KR-88	2.4397E 02
I-131	9.6217E 00
I-132	3.3392E 00
I-133	1.6299E 01
I-134	5.0907E-01
I-135	1.0902E 01
XE-133	2.1307E 03
XE-135	6.7550E 02
TOTAL NOBLE GAS	3.2294E 03
TOTAL uCi/ML=	3.2701E 03
RE-14 CPM=	2.4102E 16

12:45

ELASPSED TIME - 300.0MINUTES
CTMT Conc 7.8400E-01

ISOTOPE	uCi/ml in PVS
KR-85	6.3130E 00
KR-85M	1.2371E 02
KR-87	3.4544E 01
KR-88	2.2338E 02
I-131	9.3623E 00
I-132	3.0160E 00
I-133	1.5743E 01
I-134	4.0702E-01
I-135	1.0347E 01
XE-133	2.0853E 03
XE-135	6.6437E 02
TOTAL NOBLE GAS	3.1376E 03
TOTAL uCi/ML=	3.1765E 03
RE-14 CPM=	2.2406E 16

13:00

ELASPSED TIME - 315.0MINUTES
CTMT Conc 7.6100E-01

ISOTOPE	uCi/ml in PVS
KR-85	6.1278E 00
KR-85M	1.1543E 02
KR-87	2.9245E 01
KR-88	2.0385E 02
I-131	9.0795E 00
I-132	2.7150E 00
I-133	1.5156E 01
I-134	3.2435E-01
I-135	9.7882E 00
XE-133	2.0339E 03
XE-135	6.5060E 02
TOTAL NOBLE GAS	3.0392E 03
TOTAL uCi/ML=	3.0762E 03
RE-14 CPM=	2.0673E 16

13:15

ELASPSED TIME - 330.0MINUTES
CTMT Conc 7.4000E-01

ISOTOPE	uCi/ml in PVS
KR-85	5.9587E 00
KR-85M	1.0791E 02
KR-87	2.4804E 01
KR-88	1.8637E 02
I-131	8.8211E 00
I-132	2.4484E 00
I-133	1.4617E 01
I-134	2.5893E-01
I-135	9.2757E 00
XE-133	1.9872E 03
XE-135	6.3766E 02
TOTAL NOBLE GAS	2.9499E 03
TOTAL uCi/ML=	2.9853E 03
RE-14 CPM=	1.9176E 16

13:30

CTMT

5% MELTED FUEL - MULTIPLY ALL VALUES BY .05

ELASPSED TIME - 345.0MINUTES
CTMT Conc 7.1800E-01

ISOTOPE	uCi/ml in PVS
KR-85	5.7815E 00
KR-85M	1.0065E 02
KR-87	2.0990E 01
KR-88	1.7000E 02
I-131	8.5511E 00
I-132	2.2032E 00
I-133	1.4066E 01
I-134	2.0625E-01
I-135	8.7709E 00
XE-133	1.9371E 03
XE-135	6.2307E 02
TOTAL NOBLE GAS	2.8576E 03
TOTAL uCi/ML=	2.8914E 03
RE-14 CPM=	1.7701E 16

13:45

ELASPSED TIME - 360.0MINUTES
CTMT Conc 6.9700E-01

ISOTOPE	uCi/ml in PVS
KR-85	5.6124E 00
KR-85M	9.3925E 01
KR-87	1.7772E 01
KR-88	1.5515E 02
I-131	8.2936E 00
I-132	1.9835E 00
I-133	1.3542E 01
I-134	1.6437E-01
I-135	8.2976E 00
XE-133	[illegible]9891E 03
XE-135	6.[illegible]961E 02
TOTAL NOBLE GAS	2.[illegible]702E 03
TOTAL uCi/ML=	2.80[illegible]E 03
RE-14 CPM=	1.6371[illegible] 16

14:00

ELASPSED TIME - 375.0MINUTES
CTMT Conc 6.7600E-01

ISOTOPE	uCi/ml in PVS
KR-85	5.4433E 00
KR-85M	8.7571E 01
KR-87	1.5034E 01
KR-88	1.4147E 02
I-131	8.0365E 00
I-132	1.7840E 00
I-133	1.3026E 01
I-134	1.3088E-01
I-135	7.8427E 00
XE-133	1.8405E 03
XE-135	5.9348E 02
TOTAL NOBLE GAS	2.6835E 03
TOTAL uCi/ML=	2.7143E 03
RE-14 CPM=	1.5116E 16

14:15

ELASPSED TIME - 390.0MINUTES
CTMT Conc 6.5600E-01

ISOTOPE	uCi/ml in PVS
KR-85	5.2823E 00
KR-85M	8.1692E 01
KR-87	1.2724E 01
KR-88	1.2907E 02
I-131	7.7917E 00
I-132	1.6056E 00
I-133	1.2537E 01
I-134	1.0427E-01
I-135	7.4169E 00
XE-133	1.7940E 03
XE-135	5.7863E 02
TOTAL NOBLE GAS	2.6014E 03
TOTAL uCi/ML=	2.6308E 03
RE-14 CPM=	1.3983E 16

14:30

CTMT

(8)

5% MELTED FUEL - MULTIPLY ALL VALUES BY .05

ELASPSED TIME - 405.0MINUTES
CTMT Conc 6.3700E-01

ISOTOPE	uCi/ml in PVS
KR-85	5.1292E 00
KR-85M	7.6257E 01
KR-87	1.0776E 01
KR-88	1.1783E 02
I-131	7.5593E 00
I-132	1.4459E 00
I-133	1.2074E 01
I-134	8.3121E-02
I-135	7.0188E 00
XE-133	1.7496E 03
XE-135	5.6412E 02
TOTAL NOBLE GAS	2.5237E 03
TOTAL uCi/ML=	2.5519E 03
RE-14 CPM=	1.2962E 16

14:45

ELASPSED TIME - 420.0MINUTES
CTMT Conc 6.1800E-01

ISOTOPE	uCi/ml in PVS
KR-85	4.9762E 00
KR-85M	7.1121E 01
KR-87	9.1188E 00
KR-88	1.0748E 02
I-131	7.3272E 00
I-132	1.3009E 00
I-133	1.1617E 01
I-134	6.6204E-02
I-135	6.6361E 00
XE-133	1.7047E 03
XE-135	5.4912E 02
TOTAL NOBLE GAS	2.4465E 03
TOTAL uCi/ML=	2.4735E 03
RE-14 CPM=	1.1993E 16

15:00

ELASPSED TIME - 435.0MINUTES
CTMT Conc 6.0000E-01

ISOTOPE	uCi/ml in PVS
KR-85	0.0000E 00
KR-85M	0.0000E 00
KR-87	0.0000E 00
KR-88	0.0000E 00
I-131	0.0000E 00
I-132	0.0000E 00
I-133	0.0000E 00
I-134	0.0000E 00
I-135	0.0000E 00
XE-133	0.0000E 00
XE-135	0.0000E 00
TOTAL NOBLE GAS	0.0000E 00
TOTAL uCi/ML=	0.0000E 00
RE-14 CPM=	0.0000E 00

FIRST TIME LAPSE (1500 to 1600 hrs actual time)

Simulated Time 2300 hours 2/9/83

SB Dose Rate from Last Puff = 24 mR/hr WB
1.4 mR/hr Thy

Release is terminated by cycling the purge valves and obtaining full closure

R-27 reading is 4.6E2

All effluent monitors are back on-scale at normal values

Wind direction is from 010 Degrees
3.9 mph
Stability Class D

SECOND TIME LAPSE (1600 to 1700 hrs actual time)

Simulated Time: 0800 hours 2/11/83

RCS cooled to 200°F and on RHR

R-27 reading is 4 R/hr

No release indicated by effluent monitors