



ARKANSAS POWER & LIGHT COMPANY

Post Office Box 551
Little Rock, AR 72203
March 8, 1985

O CAN038505

Mr. D. R. Hunter
Region IV
U.S. Nuclear Regulatory Commission
Parkway Central Plaza Bldg.
611 Ryan Plaza Drive
Suite 1000
Arlington, TX 76011

SUBJECT: Arkansas Nuclear One - Units 1 & 2
Docket Nos. 50-313 and 50-368
License Nos. DPR-51 and NPF-6
1985 Exercise Scenario Submittal

Dear Mr. Hunter:

The Arkansas Nuclear One 1985 exercise scenario submittal is attached for your review. The exercise will begin at 6:00 p.m. on Wednesday, April 24 and terminate at approximately 3:00 a.m. on Thursday, April 25, 1985.

The schedule for pre-exercise briefings and post-exercise critiques is as follows:

Tuesday, April 23, 1:30 p.m., EOF	Joint Pre-Exercise Briefing
Tuesday, April 23, 3:30 p.m., EOF	AP&L Observer/Controller Briefing
Thursday, April 25, 2:00 p.m., EOF	Internal AP&L Critique
Friday, April 26, 10:00 a.m., EOF	NRC Critique with AP&L
Friday, April 26, 1:30 p.m., EOF	Public Critique

Should you have any questions regarding these activities, please contact my office.

Very truly yours,

J. Ted Enos

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Attachment

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EXERCISE RULES
AND
PARTICIPANT GUIDELINES

ARKANSAS NUCLEAR ONE
ARKANSAS POWER & LIGHT COMPANY
1985 EMERGENCY PREPAREDNESS EXERCISE

EXERCISE RULES AND PARTICIPANT GUIDELINES

To define the "extent of play" of the exercise players and to meet the exercise objectives, the following exercise guidelines have been established:

1. The exercise will be conducted during April, 1985, and will continue without suspension until terminated. Since exercise players will not be informed of the exercise start time or initiating events, all personnel should follow their normal routines prior to the exercise.
2. The exercise will commence with postulated conditions necessitating the declaration of appropriate emergency classes.
3. Four groups of personnel will be in attendance at the exercise and will function as described below:
 - A. PARTICIPANTS are operators, chemistry personnel, maintenance personnel, etc., who have been assigned an "acting" role during the emergency exercise. These people serve to take necessary actions to mitigate, terminate, correct, and/or recover from the simulated emergency.
 - B. CONTROLLERS are those predesignated AP&L or contractor personnel who serve an active role in the exercise by providing data to participants. The CONTROLLERS may also serve to prompt or initiate certain actions in order to assure continuity of the events described in the exercise scenario. CONTROLLERS are the only personnel who will provide information to the PARTICIPANTS; other inputs of information from personnel not designated as CONTROLLERS will be ignored by the participants.

CONTROLLERS may also serve as EVALUATORS.
 - C. EVALUATORS are personnel predesignated by AP&L, NRC, and FEMA to provide documentation and assessment of the exercise. They serve a passive function and will only note actions taken by PARTICIPANTS. These personnel have received specific instructions on what areas to consider in their evaluation of the exercise. EVALUATORS may ask questions of participants to clarify actions taken or procedural concerns but should not interfere with the flow of events.
 - D. VISITORS are personnel who serve no evaluation, control, or participatory function in the exercise. Visitors from NRC, FEMA, state agencies, and other utilities are expected to be included as OBSERVERS. OBSERVERS shall not interfere with EVALUATORS, and particularly, PARTICIPANTS. Questions from OBSERVERS should be directed to a CONTROLLER.

Identification of personnel:

- A. WHITE armband: Controllers and observers
 - B. BLUE armband: Players (i.e. Control Room personnel and personnel assigned ERO positions)
 - C. RED armband: NRC evaluators
4. Personnel will be assigned as controllers at all key functional areas to monitor and control the exercise. In addition, they will accompany radiological monitoring teams, plant health physics personnel and maintenance repair/rescue teams.
 5. Message forms will be the mechanisms used to initiate, orchestrate, modify and complete the events comprising the overall scenario. The Controller will use the message forms to place the scenario events in effect and to trigger responses from the involved personnel.
 6. Some exercise participants may insist that certain parts of the scenario are unrealistic. The Controllers have the authority, with the approval from the Lead Controller, to clarify any questions regarding scenario content. In some cases, it may be necessary to exercise "control room's prerogative" of countermanding participant actions to preserve the continuity and objectives of the exercise. You must, however, accept his/her word as final and proceed. Inappropriate actions can delay or speed up the entire exercise and impact other groups.
 7. Note that the scenario events are hypothetical. Any portions of the scenario depicting plant system operations transients are simulated events. NO Control Room actions, or reactions involving operation of plant systems, or affecting generation capability shall be initiated. All exercise scenario messages shall be prefixed and suffixed with the words: "THIS IS A DRILL".
 8. Postulated accident conditions may result in a simulated radiological release which necessitates the consideration of protective actions for the general public, and will provide the mechanism for offsite authorities to exercise their respective emergency response plans.
 9. All onsite and offsite emergency response facilities may be manned to perform their prescribed functions as appropriate to the development of the exercise scenario.
 10. Media centers may be manned and perform their prescribed functions.
 11. The offsite Early Warning Siren System may be activated by the State.

12. Key Participant Guidelines

- A. Participation by AP&L personnel directly involved in responding to an emergency shall be carried out to the fullest extent possible - including the deployment of radiological monitoring teams, emergency repair and damage control teams, and other emergency workers.

All actions are to be played out, as much as possible, in accordance with the Emergency Plan and Procedures as if it were a real emergency. Actions of participants should be identified to the Controller if not evident.

- B. Respond to Controller's questions.

- C. Plant/Monitoring Data: Participants should request from the Controllers any data which they feel is necessary for the performance of their function. Data will most likely be provided to any emergency teams by a Controller after the participants have taken the required measurements.

SPDS and GERMS data will most likely be automatic; however, if system failures occur, each Controller will have the time-related plant and radiological parameters of the exercise scenario. This information will be issued upon request to the appropriate exercise participants.

- D. You must play as if radiation levels actually are present, in accordance with the information you have received. This will require that you wear radiation dosimeters, anti-contamination clothing, observe good radiation protection practices, and be aware of and minimize your radiation exposure. Identify the individuals in the emergency response organization responsible for informing you of these items. Follow their instructions.

- E. If you are entering normal nuclear station radiation areas, observe all rules and procedures. No one (even the controller and federal evaluators) is exempt from normal station radiological practices and procedures.

NOTE: DO NOT ENTER HIGH RADIATION AREAS IN THE PLANT WITHOUT AUTHORIZATION FROM THE CONTROLLER. FOLLOW ALARA PRINCIPLES.

- F. If you are in doubt, ask your controller for clarification. The controller will not prompt or coach you. They will not provide information to players regarding scenario development or resolution of problem areas encountered. The exercise participants are expected to obtain information through their own organizations and exercise their own judgement in determining response actions and resolving problems.

13. Actual and Simulated Events: During the emergency exercise, certain events/activities will be simulated rather than utilize the actual employment of resources. Any question as to the simulation of actions should be directed to a Controller for approval.
 - Simulation - involves identification and utilization of requirements and procedures short of actual employment.
 - Actual - movement of resources and/or physical implementation for this exercise.

Example: The actual use of fire extinguishing agents would not be performed but simulated. Teams would respond but only perform a "walk-thru" of fire fighting actions.
14. Provisions for Actual Emergency: Exercise participants, controllers/evaluators, and visitors should not take any actions which would preclude maintaining emergency readiness of the organization and community. If an actual emergency occurs during the exercise requiring a group to terminate its participation in the exercise, they should notify the Lead Controller. All messages concerning actual emergency events should be preceded with "THIS IS NOT, REPEAT, NOT AN EXERCISE MESSAGE".
15. Communications: Communications between all exercise participants shall occur in accordance with the procedures of all applicable emergency response plans. All communications, including initial telephone conversations, radio transmittals, loudspeaker announcements, etc., should begin and end with "This is a Drill".
16. Compliance With All Laws: Intentional violation of any laws is not permitted during any exercise. Exercise participants, controllers/evaluators, and observers should comply with all Federal, State and local restrictions. Specifically all local traffic laws, such as speed limits, should be observed.
17. Avoid Property Endangerment: Exercise participants, controllers/evaluators, and observers should avoid endangering property (public or private), members of the general public or the environment.
18. Minimize Public Inconvenience: It is not the intent to arouse or inconvenience the public during the conduct of an exercise. Also all communications, particularly in the public relations area, should be prefaced with "This is a Drill".
19. Closeout of Exercise
 - The Lead Controller will notify and release all controllers and participants not participating in the recovery.

- At the appropriate point in the exercise scenario, the Lead Controller will initiate termination of the exercise. The Lead Controller will notify all offsite points of contact to advise that the exercise is being terminated.

NOTE: All simulated exercise events will be initiated under the direction of the Emergency Planning Coordinator. Individuals are prohibited from creating real or simulated situations that have not been provided for in the scenario and approved by the Emergency Planning Coordinator.

INSTRUCTIONS FOR VISITORS

1. The event times and scenario are confidential and should be kept confidential during the exercise. Do not discuss them with the players.
2. Visitors should not participate in the exercise nor interfere in the actions taken by the exercise players, controllers, and evaluators.
3. Visitors must stay with their assigned escort and follow their escort's instructions.
4. Visitors must display their ANO visitor badge and other assigned means of identification (armband, etc.).
5. Within emergency response facilities, visitors must position themselves such that status boards, charts, access to equipment, etc. are not hindered/blocked. If congestion becomes a problem, visitors may be asked to leave temporarily by a controller.
6. Visitors should ask questions to their escort or a controller during the exercise, or ask questions to players only after exercise termination.
7. Visitor safety responsibilities:
 - Safety takes precedence over all other exercise requirements.
 - In cases of accidents/injury, report promptly to your escort or a controller, and assist as required.
 - Report any hazardous condition to your escort or a controller.
 - Cooperate in every respect with the plant safety program so that operations may be conducted in a way that ensures safety.
 - Follow safety rules, take no unnecessary chances, use all safeguards and safety equipment provided, and make safety a part of your responsibility.
 - In the case of fire or an actual emergency, follow the instructions of your escort or a controller.

CONTROLLER INSTRUCTIONS

AND

CRITIQUE SHEETS

INSTRUCTIONS FOR CONTROLLERS

1. Personnel are assigned as controllers or evaluators at all key functional areas to monitor and control the exercise. In addition, they will accompany radiological monitoring teams, plant health physics personnel, and maintenance repair/rescue teams.
2. The AP&L controllers will be coordinated by a Lead Controller in the TSC or EOF (ext. 3732 or 6601). He will be responsible for the overall conduct of the exercise scenario.
3. Message forms and simulated data will be issued to initiate, modify, and complete the events comprising the overall scenario. Selected controllers will use the message forms to place the scenario events in effect and to trigger responses from the involved emergency response organizations. Each controller will have copies of the messages controlling the portion of the scenario for which he/she is responsible.
4. Controlling messages will be presented to the designated exercise participant at the time specified in the event schedule. The controller should follow up with an explanation of the message and answer questions to ensure that the participant understands the message.

Two kinds of messages will be used:

- Exercise Message

Messages used as a primary means of implementing scenario events by hypothesizing conditions. These will be supported by simulated data where necessary.

- Contingency Exercise Message

Messages used at the discretion of the controllers in order to maintain scenario schedule or continuity of simulated events. These are not to be issued unless absolutely necessary. The Lead Controller should be advised when a Contingency Message has been issued.

5. Controllers shall not initially provide information to the participants regarding scenario development or resolution of problem areas encountered. The participants are expected to obtain information through their own organization and exercise their own judgement in determining response actions and resolving problems. In the event of incorrect or incomplete responses, or if the participant indicates lack of knowledge of how to proceed, the controller will prompt the participant with necessary instructions and will note the deficiency on his/her critique sheets.

6. Note that the scenario events are hypothetical. Any portions of the scenario depicting plant system operational transients are simulated events. No control room actions, reactions involving operation of plant system or affecting generation capability will be initiated. If you are not clear as to what actions should be taken by the players or why, make sure you ask the Lead Controller, so that you understand the extent of the play. Controllers stationed at areas vital to maintaining generating capability should be especially aware and take extra precautions in issuing messages or giving instructions regarding the scenario events.
7. Players are not allowed to introduce items into the exercise or scenario. Some exercise participants may insist that certain parts of the scenario are unrealistic. The controllers have the authority, with approval from the Lead Controller, to clarify any questions regarding scenario content. In some cases, it may be necessary to exercise "controller's prerogative" to preserve the continuity and objectives of the exercise.
8. Controllers will only guide the actions of the players when it is obvious that unchecked actions will have a significant impact on the successful completion of the drill. Controller prompts should be kept to a minimum and avoided if at all possible.
9. Controllers and federal evaluators do not have to follow the radiation exposure control practices for the simulated radiation levels from the emergency exercise scenario. However, the players must follow the radiation protection rules. Controllers, federal evaluators, and players entering normal nuclear station radiation areas must observe all normal radiation control practices.
10. Controller safety responsibilities:
 - Safety takes precedence over all other exercise requirements.
 - In case of accidents/injury, report promptly to the Lead Controller and get medical assistance without delay.
 - Report any hazardous condition to the Lead Controller.
 - Follow safety rules, take no unnecessary chances, use all safeguards and safety equipment provided, and make safety a part of your responsibility. Be sure to have a hard hat with you when entering the plant.
 - Know your exact duties in case of fire or an actual emergency; suspend exercise related activities.

11. The federal evaluators must not issue "surprise" messages or direct "surprise" actions at the players. They must work through the controller. This is essential for the success of the exercise.
12. Controllers will commence their assignments at assembly locations for players they are to observe, or as directed by the lead controller. Prior to commencement, all telecommunications should be tested to ensure satisfactory communications between the lead controllers and all other controllers.
13. All controllers will synchronize their watches to ensure that messages are delivered at the proper time. Times on messages are set relative to the beginning of the exercise, with delivery of the first message at "T + 0:00."
14. The emergency response exercise is tentatively scheduled for termination at 0230 hours. The Lead Controller will initiate actual termination and ensure all controllers and players are advised.
15. All controllers should complete their critique sheets and prepare a list of major findings. They should gather all records generated during the exercise and convey these records and their comments to the Emergency Planning Coordinators.
16. All Emergency Managers/Directors/Team Leaders/evaluators and controllers should return for the critique Thursday, April 25, 1985, at 2:00 p.m. in the EOF auditorium. Only substantive comments should be expressed with suggested corrective actions, since these are followed for commitment tracking purposes. Other comments should be noted and given to the Emergency Planning Coordinators.

NOTES:

Do's

1. Know the overall controller organization and how/where to contact the Lead Controller.
2. Be sure you understand the players' scenario script and the master scenario.
3. Be at your post at least 20 minutes prior to any player action commencement. Position yourself to maximize your effectiveness in issuing messages and observing the players.
4. Identify the phone (or radio for field teams) you will use to maintain communications with lead controller.

5. Identify yourself at all times to all players. Wear controller identification, as provided.
6. Identify the players (by name and function) that you will be controlling.
7. Remember that there are two clocks: a scenario time and a clock time.
8. Keep the play on schedule by checking your script.
9. Stick to the time-line as far as giving out information is concerned. Contact the Lead Controller if significant delays are encountered, so that scenario event timing can be adjusted accordingly.
10. Issue the message on time or as otherwise directed by the Lead Controller. Make sure the players understand it.
11. Allow the players reasonable flexibility to do their functions and demonstrate their skill, knowledge, and initiative.
12. If you must intervene with player actions and the player diagram with your instructions, contact the Lead Controller to resolve the conflict.
13. Respond to Player's questions, yet be mindful of answers that would prompt players to take a specific action.
14. Identify the federal evaluator(s). Make sure they are reasonably aware of all your actions and those of the players. Attempt to defray any misconceptions of player/controller actions.
15. If a real emergency occurs in your area of play, suspend your portion of the exercise and notify the lead controller immediately.
16. Make notes on the strengths and weaknesses of response actions, suggestions for improvement. Use the Evaluator's Critique Sheets.
17. Attend the post-exercise critique session to provide your comments and recommendations to the Lead Controller.

Don'ts

1. Don't leave your post at key times.
2. Don't prompt the players to take action.

3. Don't coach the players.
4. Don't criticize the player actions during the play.
5. Don't forget to call the Lead Controller to seek advice or help as necessary.
6. Do not allow federal evaluators to issue messages/instructions to participants. If they want to initiate actions, receive authorization from the Lead Controller before complying with their wishes. Players may, however, answer questions directed to them by federal evaluators.
7. Do not allow participant actions to continue if they would obviously impair scenario continuity.

ARKANSAS NUCLEAR ONE
1985
EMERGENCY PREPAREDNESS EXERCISE
OBSERVER CRITIQUE SHEET
LITTLE ROCK SUPPORT CENTER

Listed below are the exercise objectives which are applicable to your area of observation. Use the attached observer checklist, along with any additional observation notes, to evaluate player performance in meeting each objective. Several objectives apply to more than one area. However, your evaluation needs only to address your specifically assigned group or response center's role in meeting such an objective.

Exercise objectives:

5. Notification of appropriate vendor and consultant support groups.

Evaluation:

13. Activation of the Little Rock Support Center.

Evaluation:

41. Utilization of appropriate Emergency Plan Implementing Procedures.

Evaluation:

42. Demonstrate problem solving capabilities of the Emergency Response Organization.

Evaluation:

OBSERVER CHECKLIST

ARKANSAS NUCLEAR ONE

OBSERVER _____

LOCATION/GROUP OBSERVED: LITTLE ROCK SUPPORT CENTER & LRCC

DATE: _____

DIRECTIONS: Circle the number on the rating scale that corresponds to the judgment made by the observer. The Rating Scale is defined as follows:

- 0 - Not Applicable
- 1 - Event/Criteria Missing
- 2 - Unsatisfactory
- 3 - Needs Improvement
- 4 - Satisfactory
- 5 - Exceeds Criteria

EVENT/CRITERIA	RATING SCALE						COMMENTS
	0	1	2	3	4	5	
I. LOCATION SPECIFIC ACTIVITIES							
A. LRCC receives and transmits Notification of Unusual Event in a timely manner.	0	1	2	3	4	5	
B. LRCC receives and transmits Alert in a timely manner.	0	1	2	3	4	5	
C. LRSC is established in a timely manner.	0	1	2	3	4	5	
D. EOFD notifies appropriate personnel of Alert event.	0	1	2	3	4	5	
E. Established communication linkage with ANO (TSC if activated).	0	1	2	3	4	5	
F. Begins preparation of initial press release.	0	1	2	3	4	5	
G. Activates LRSC with phones and 5520 Display Writer.	0	1	2	3	4	5	
H. Radiological Environmental Assessment Manager makes an assessment to activate off-site radiological monitoring teams.	0	1	2	3	4	5	
I. Assess seriousness of situation and determine if further activation is necessary.	0	1	2	3	4	5	

OBSERVER CHECKLIST CONTINUED:

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EVENT/CRITERIA	RATING SCALE						COMMENTS
	0	1	2	3	4	5	
J. Communication equipment is operational and consistently manned.	0	1	2	3	4	5	
K. Control and transfer is clear, orderly, and timely.	0	1	2	3	4	5	
L. LRSC contains only essential personnel.	0	1	2	3	4	5	
M. Communications and events are logged according to procedures.	0	1	2	3	4	5	
N. Transfer of command is made clear to EOF at ANO and LRSC staff.	0	1	2	3	4	5	
O. Media team transfers to EOF following initial press release.	0	1	2	3	4	5	
P. Maintain ERO personnel tracking.	0	1	2	3	4	5	
Q. Engineering Support staff is kept informed of events and has made appropriate contacts with vendors or other outside support groups.	0	1	2	3	4	5	
R. Communications Manager is kept up-to-date and provides AP&L staff updated information.	0	1	2	3	4	5	
S. Corporate Communications (Internal Communications) responds to outside calls following appropriate procedures.	0	1	2	3	4	5	

NOTES

ARKANSAS NUCLEAR ONE

1985

EMERGENCY PREPAREDNESS EXERCISE

OBSERVER CRITIQUE SHEET

EMERGENCY OPERATIONS FACILITY

Listed below are the exercise objectives which are applicable to your area of observation. Use the attached observer checklist, along with any additional observation notes, to evaluate player performance in meeting each objective. Several objectives apply to more than one area. However, your evaluation needs only to address your specifically assigned group or response center's role in meeting such an objective.

Exercise objectives:

6. Notification of appropriate Federal, State, and local support groups.

Evaluation:

7. Formation of the Emergency Operations Facility Staff response from Little Rock.

Evaluation:

11. Activation of the Emergency Operations Facility within three to four hours following the declaration of a Site Area Emergency.

Evaluation:

14. Activation and transfer of the Emergency Response Facility Staff from Little Rock to Russellville.

Evaluation:

15. Activation and transfer of General Office Technical Analysis laboratory personnel from Little Rock to Russellville.

Evaluation:

16. Demonstrate effective use of communications equipment during transfer of the Emergency Operations Facility Staff from Little Rock to ANO.

Evaluation:

17. Establishment of communications between the Control Room, Technical Support Center, Operational Support Center, Emergency Operations Facility, Little Rock Support Center, NRC, and State and local emergency response officials.

Evaluation:

18. Coordination between the Control Room, Technical Support Center, Operational Support Center, Emergency Operations Facility and Little Rock Support Center throughout the exercise.

Evaluation:

19. Transfer command and control responsibilities (and maintain continuity) from the Initial Response Staff to the Initial Response Organization and from the Initial Response Organization to the Emergency Operations Facility Staff.

Evaluation:

20. Coordination with state and local officials at the Technical Operations Control Center, Technical Support Center, Emergency Operations Facility and the five county Emergency Operations Centers as requested.

Evaluation:

21. Coordination between the Control Room, Technical Support Center, Emergency Operations Facility and the Arkansas Department of Health on Protective Action Recommendations.

Evaluation:

30. Coordination of offsite radiological field monitoring with State personnel.

Evaluation:

31. Demonstrate radiation/contamination monitoring of the Control Room, Technical Support Center and EOF.

Evaluation:

35. Utilize the Gaseous Effluent Radiation Monitoring System and the Safety Parameter Display System

Evaluation:

39. Demonstrate security at the Emergency Operations Facility.

Evaluation:

41. Utilization of appropriate Emergency Plan Implementing Procedures.

Evaluation:

42. Demonstrate problem solving capabilities of the Emergency Response Organization.

Evaluation:

43. Formation of a Recovery Group.

Evaluation:

46. Coordination with State and Federal (if in attendance) agencies to down-grade and terminate the emergency.

Evaluation:

OBSERVER CHECKLIST

ARKANSAS NUCLEAR ONE

OBSERVER _____

LOCATION/GROUP OBSERVED: EMERGENCY OPERATIONS FACILITY (EOF)

DATE: _____

DIRECTIONS: Circle the number on the rating scale that corresponds to the judgment made by the observer. The Rating Scale is defined as follows:

- 0 - Not Applicable
- 1 - Event/Criteria Missing
- 2 - Unsatisfactory
- 3 - Needs Improvement
- 4 - Satisfactory
- 5 - Exceeds Criteria

EVENT/CRITERIA	RATING SCALE						COMMENTS
	0	1	2	3	4	5	
I. LOCATION SPECIFIC ACTIVITIES							
A. Communications are effective while enroute.	0	1	2	3	4	5	
B. EOF is activated in a timely manner.	0	1	2	3	4	5	
C. EOFD receives briefing prior to assuming command at EOF.	0	1	2	3	4	5	
D. Transfer of command is made clear to TSC, LRSC, and Control Room.	0	1	2	3	4	5	
E. Updated status boards are maintained.	0	1	2	3	4	5	
F. REAM receives timely and complete information regarding radiological monitoring.	0	1	2	3	4	5	
G. Reference materials, supplies and resources are readily available and adequate.	0	1	2	3	4	5	
H. Communication flow is adequate.	0	1	2	3	4	5	
I. Definite and effective leadership is maintained in the EOF.	0	1	2	3	4	5	

OBSERVER CHECKLIST CONTINUED: EMERGENCY OPERATIONS FACILITY

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EVENT/CRITERIA	RATING SCALE						COMMENTS
	0	1	2	3	4	5	
J. EOF personnel were familiar with their responsibilities and carried out their duties effectively.	0	1	2	3	4	5	
K. Radiological trends of the accident were established.	0	1	2	3	4	5	
L. Protective action recommendations were timely and accurate.	0	1	2	3	4	5	
M. Data were made available in a timely manner and adequately distributed.	0	1	2	3	4	5	
N. EOF participants were aware of their responsibilities.	0	1	2	3	4	5	
O. Communicators understood and used systems effectively.	0	1	2	3	4	5	
P. General status announcements and periodic updates were made throughout the drill.	0	1	2	3	4	5	
Q. Appropriate procedures were used and periodically reviewed.	0	1	2	3	4	5	
R. Communication and coordination activities made with the State were timely, accurate and frequent.	0	1	2	3	4	5	
S. Contact with outside support groups were made in anticipation of their assistance.	0	1	2	3	4	5	
T. Team work was evident.	0	1	2	3	4	5	
U. Press releases were reviewed by EOFD.	0	1	2	3	4	5	

NOTES

ARKANSAS NUCLEAR ONE

1985

EMERGENCY PREPAREDNESS EXERCISE

OBSERVER CRITIQUE SHEET

CONTROL ROOM

Listed below are the exercise objectives which are applicable to your area of observation. Use the attached observer checklist, along with any additional observation notes, to evaluate player performance in meeting each objective. Several objectives apply to more than one area. However, your evaluation needs only to address your specifically assigned group or response center's role in meeting such an objective.

Exercise objectives:

2. Classifying and upgrading the emergency through the General Emergency classification.

Evaluation:

3. Notification and call-out of the Initial Response Staff (IRS), Initial Response Organization (IRO), and Emergency Operations Facility Staff (EOFS).

Evaluation:

6. Notification of appropriate Federal, State, and local support groups.

Evaluation:

17. Establishment of communications between the Control Room, Technical Support Center, Operational Support Center, Emergency Operations Facility, Little Rock Support Center, NRC, and State and local emergency response officials.

Evaluation:

18. Coordination between the Control Room, Technical Support Center, Operational Support Center, Emergency Operations Facility and Little Rock Support Center throughout the exercise.

Evaluation:

19. Transfer command and control responsibilities (and maintain continuity) from the Initial Response Staff to the Initial Response Organization and from the Initial Response Organization to the Emergency Operations Facility Staff.

Evaluation:

21. Coordination between the Control Room, Technical Support Center, Emergency Operations Facility and the Arkansas Department of Health on Protective Action Recommendations.

Evaluation:

23. Activation of the Emergency Medical Team.

Evaluation:

41. Utilization of appropriate Emergency Plan Implementing Procedures.

Evaluation:

42. Demonstrate problem solving capabilities of the Emergency Response Organization.

Evaluation:

OBSERVER CHECKLIST

ARKANSAS NUCLEAR ONE

OBSERVER _____

LOCATION/GROUP OBSERVED: _____ CONTROL ROOM _____ DATE: _____

DIRECTIONS: Circle the number on the rating scale that corresponds to the judgment made by the observer. The Rating Scale is defined as follows:

- 0 - Not Applicable
- 1 - Event/Criteria Missing
- 2 - Unsatisfactory
- 3 - Needs Improvement
- 4 - Satisfactory
- 5 - Exceeds Criteria

EVENT/CRITERIA	RATING SCALE						COMMENTS
	0	1	2	3	4	5	
I. LOCATION SPECIFIC ACTIVITIES							
A. CR operators responded quickly to personal injury incident.	0	1	2	3	4	5	
B. CR operators responded quickly to fire alarm.	0	1	2	3	4	5	
C. CR operators responded quickly to reactor trip.	0	1	2	3	4	5	
D. CR operators responded properly to simulated operational events.	0	1	2	3	4	5	
E. HP assistance was requested as needed.	0	1	2	3	4	5	
F. Event classifications were timely, accurate and clear.	0	1	2	3	4	5	
G. Notifications were timely and properly completed.	0	1	2	3	4	5	
H. Communication networks were operational and utilized efficiently.	0	1	2	3	4	5	
I. Communication flow was adequate to ensure that information was timely, effective and efficient.	0	1	2	3	4	5	

OBSERVER CHECKLIST CONTINUED: EMERGENCY OPERATIONS FACILITY

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EVENT/CRITERIA	RATING SCALE						COMMENTS
	0	1	2	3	4	5	
J. Phone listings were available, complete and up-to-date.	0	1	2	3	4	5	
K. General status announcements were made and updated periodically throughout the drill.	0	1	2	3	4	5	
L. Proper data flow was maintained between TSC and Control Room.	0	1	2	3	4	5	
M. Logs were maintained.	0	1	2	3	4	5	
N. EOP and emergency plan implementing procedures were utilized.	0	1	2	3	4	5	
O. Drill announcements were prefaced with, "This is a Drill".	0	1	2	3	4	5	
P. Communications links were checked.	0	1	2	3	4	5	
Q. Adequate information was provided to the Control Room from support group for their assessment.	0	1	2	3	4	5	

NOTES

ARKANSAS NUCLEAR ONE

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EMERGENCY PREPAREDNESS EXERCISE

OBSERVER CRITIQUE SHEET

EVACUATION

Listed below are the exercise objectives which are applicable to your area of observation. Use the attached observer checklist, along with any additional observation notes, to evaluate player performance in meeting each objective. Several objectives apply to more than one area. However, your evaluation needs only to address your specifically assigned group or response center's role in meeting such an objective.

Exercise objectives:

36. Evacuation of the Plant and/or Exclusion Area.

Evaluation:

37. Demonstrate personnel accountability following evacuation:

Evaluation:

38. Demonstrate the ability to control access to the Exclusion Area and the establishment of road blocks.

Evaluation:

41. Utilization of appropriate Emergency Plan Implementing Procedures.

Evaluation:

42. Demonstrate problem solving capabilities of the Emergency Response Organization.

Evaluation:

OBSERVER CHECKLIST

ARKANSAS NUCLEAR ONE

OBSERVER _____

LOCATION/GROUP OBSERVED: EVACUATION

DATE: _____

DIRECTIONS: Circle the number on the rating scale that corresponds to the judgment made by the observer. The Rating Scale is defined as follows:

- 0 - Not Applicable
- 1 - Event/Criteria Missing
- 2 - Unsatisfactory
- 3 - Needs Improvement
- 4 - Satisfactory
- 5 - Exceeds Criteria

EVENT/CRITERIA	RATING SCALE						COMMENTS
	0	1	2	3	4	5	
I. LOCATION SPECIFIC ACTIVITIES							
A. Portal monitors effectively utilized to monitor plant evacuees.	0	1	2	3	4	5	
B. Adequate instructions are provided to the evacuees.	0	1	2	3	4	5	
C. Evacuated players are provided adequate instructions.	0	1	2	3	4	5	
D. Evacuees are provided follow-up information by the Emergency Coordinator.	0	1	2	3	4	5	
E. Fishermen are provided adequate instructions.	0	1	2	3	4	5	
F. HP coverage is adequate at exit points.	0	1	2	3	4	5	
G. Accountability of evacuated personnel is performed in a timely manner.	0	1	2	3	4	5	
H. Adequate information is provided by the TSC for Security to perform accountability.	0	1	2	3	4	5	
I. Evacuation messages over the PA system were clear and understandable.	0	1	2	3	4	5	

NOTES

ARKANSAS NUCLEAR ONE
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EMERGENCY PREPAREDNESS EXERCISE
OBSERVER CRITIQUE SHEET
RADIATION TEAM (OFFSITE SECTION)

Listed below are the exercise objectives which are applicable to your area of observation. Use the attached observer checklist, along with any additional observation notes, to evaluate player performance in meeting each objective. Several objectives apply to more than one area. However, your evaluation needs only to address your specifically assigned group or response center's role in meeting such an objective.

Exercise objectives:

27. Activation of the Emergency Radiation Team.

Evaluation:

29. Offsite radiological field monitoring by the offsite section of the Emergency Radiation Team.

Evaluation:

40. Demonstrate emergency response capability during night conditions.

Evaluation:

41. Utilization of appropriate Emergency Plan Implementing Procedures.

Evaluation:

42. Demonstrate problem solving capabilities of the Emergency Response Organization.

Evaluation:

OBSERVER CHECKLIST

ARKANSAS NUCLEAR ONE

OBSERVER _____

LOCATION/GROUP OBSERVED: EMERGENCY RADIATION TEAM (OFFSITE SECTION) DATE: _____

DIRECTIONS: Circle the number on the rating scale that corresponds to the judgment made by the observer. The Rating Scale is defined as follows:

- 0 - Not Applicable
- 1 - Event/Criteria Missing
- 2 - Unsatisfactory
- 3 - Needs Improvement
- 4 - Satisfactory
- 5 - Exceeds Criteria

EVENT/CRITERIA	RATING SCALE						COMMENTS
	0	1	2	3	4	5	
I. LOCATION SPECIFIC ACTIVITIES							
A. Initial team briefings were held.	0	1	2	3	4	5	
B. Team assembled with field kits, vehicles and communications equipment in a timely manner.	0	1	2	3	4	5	
C. Instruments checked for proper operability and current calibration.	0	1	2	3	4	5	
D. Teams receive explicit instructions of where to go and what to sample.	0	1	2	3	4	5	
E. Procedures for conducting offsite monitoring were consulted and followed.	0	1	2	3	4	5	
F. Vehicle checked for contamination after mission completed.	0	1	2	3	4	5	
G. Sampling locations were readily located.	0	1	2	3	4	5	
H. Analysis of samples were performed outside the plume area.	0	1	2	3	4	5	
I. Samples were properly packaged, identified and labeled.	0	1	2	3	4	5	

OBSERVER CHECKLIST CONTINUED:

Page 2 of 2

EVENT/CRITERIA	RATING SCALE						COMMENTS
	0	1	2	3	4	5	
J. Pocket dosimeters were periodically checked.	0	1	2	3	4	5	
K. Pocket dosimeter readings were logged.	0	1	2	3	4	5	
L. Communciations were effective.	0	1	2	3	4	5	
M. Team members followed good ALARA and HP practices.	0	1	2	3	4	5	
N. Radio communications stated, "This is a Drill", or similar statement.	0	1	2	3	4	5	
O. Team members completed data sheets in the proper manner.	0	1	2	3	4	5	
P. Adequate communications existed between the field teams and the TSC/EOF.	0	1	2	3	4	5	

NOTES

ARKANSAS NUCLEAR ONE

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EMERGENCY PREPAREDNESS EXERCISE

OBSERVER CRITIQUE SHEET

MEDICAL EMERGENCY

Listed below are the exercise objectives which are applicable to your area of observation. Use the attached observer checklist, along with any additional observation notes, to evaluate player performance in meeting each objective. Several objectives apply to more than one area. However, your evaluation needs only to address your specifically assigned group or response center's role in meeting such an objective.

Exercise objectives:

23. Activation of the Emergency Medical Team.

Evaluation:

24. Emergency Medical Team response to a simulated injured and radioactively contaminated individual(s) at St. Mary's Hospital.

Evaluation:

25. Transportation of a simulated injured and radioactively contaminated individual(s) to St. Mary's Hospital.

Evaluation:

26. Coordination between AP&L and St. Mary's Hospital staff for the handling of a simulated injured and radioactively contaminated individual(s).

Evaluation:

41. Utilization of appropriate Emergency Plan Implementing Procedures.

Evaluation:

42. Demonstrate problem solving capabilities of the Emergency Response Organization.

Evaluation:

OBSERVER CHECKLIST

ARKANSAS NUCLEAR ONE

OBSERVER _____

LOCATION/GROUP OBSERVED: _____ MEDICAL TEAM

DATE: _____

DIRECTIONS: Circle the number on the rating scale that corresponds to the judgment made by the observer. The Rating Scale is defined as follows:

- 0 - Not Applicable
- 1 - Event/Criteria Missing
- 2 - Unsatisfactory
- 3 - Needs Improvement
- 4 - Satisfactory
- 5 - Exceeds Criteria

EVENT/CRITERIA	RATING SCALE						COMMENTS
	0	1	2	3	4	5	
I. LOCATION SPECIFIC ACTIVITIES							
A. Medical Team reaction/assembly was timely following notification.	0	1	2	3	4	5	
B. Medical team assembled with the proper first aid equipment.	0	1	2	3	4	5	
C. Accident/injury assessment made by the medical team.	0	1	2	3	4	5	
D. Team leader exerts control.	0	1	2	3	4	5	
E. Medical assistance was rendered in a timely manner.	0	1	2	3	4	5	
F. Appropriate decontamination measures were taken.	0	1	2	3	4	5	
G. Maintained communication linkage with Control Room.	0	1	2	3	4	5	
H. The HP escort reacted properly to the simulated event.	0	1	2	3	4	5	
I. The request for and notification of ambulance was in accordance with procedures.	0	1	2	3	4	5	

OBSERVER CHECKLIST CONTINUED:

Page 2 of 2

EVENT/CRITERIA	RATING SCALE						COMMENTS
	0	1	2	3	4	5	
J. Patient was made ready for transport by the medical team.	0	1	2	3	4	5	
K. Dosimeter was left with the patient.	0	1	2	3	4	5	
L. Adequate HP's coverage was provided at the hospital.	0	1	2	3	4	5	
M. Patient's radiation doses are monitored by HP personnel.	0	1	2	3	4	5	
N. HP performed radiation survey of ambulance at hospital before vehicle was released.	0	1	2	3	4	5	
O. Consideration/measures were taken to prevent spread of contamination.	0	1	2	3	4	5	
P. Periodic status reports are provided to the Shift Supervisor as to the injured individual's status.	0	1	2	3	4	5	

NOTES

ARKANSAS NUCLEAR ONE

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EMERGENCY PREPAREDNESS EXERCISE

OBSERVER CRITIQUE SHEET

POST ACCIDENT SAMPLING

Listed below are the exercise objectives which are applicable to your area of observation. Use the attached observer checklist, along with any additional observation notes, to evaluate player performance in meeting each objective. Several objectives apply to more than one area. However, your evaluation needs only to address your specifically assigned group or response center's role in meeting such an objective.

Exercise objectives:

34. Utilize the Post Accident Sampling System to analyze the primary system (RCS).

Evaluation:

41. Utilization of appropriate Emergency Plan Implementing Procedures.

Evaluation:

42. Demonstrate problem solving capabilities of the Emergency Response Organization.

Evaluation:

NOTES

ARKANSAS NUCLEAR ONE

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EMERGENCY PREPAREDNESS EXERCISE

OBSERVER CRITIQUE SHEET

RADIATION TEAM (ONSITE SECTION)

Listed below are the exercise objectives which are applicable to your area of observation. Use the attached observer checklist, along with any additional observation notes, to evaluate player performance in meeting each objective. Several objectives apply to more than one area. However, your evaluation needs only to address your specifically assigned group or response center's role in meeting such an objective.

Exercise objectives:

27. Activation of the Emergency Radiation Team.

Evaluation:

28. Radiation monitoring of plant areas by the onsite section of the Emergency Radiation Team.

Evaluation:

41. Utilization of appropriate Emergency Plan Implementing Procedures.

Evaluation:

42. Demonstrate problem solving capabilities of the Emergency Response Organization.

Evaluation:

44. Demonstrate initial recovery and reentry actions.

Evaluation:

45. Reentry of damaged plant for maintenance activities while wearing protective equipment and clothing.

Evaluation:

OBSERVER CHECKLIST

ARKANSAS NUCLEAR ONE

OBSERVER _____

LOCATION/GROUP OBSERVED: EMERGENCY RADIATION TEAM (ONSITE SECTION) DATE: _____

DIRECTIONS: Circle the number on the rating scale that corresponds to the judgment made by the observer. The Rating Scale is defined as follows:

- 0 - Not Applicable
- 1 - Event/Criteria Missing
- 2 - Unsatisfactory
- 3 - Needs Improvement
- 4 - Satisfactory
- 5 - Exceeds Criteria

EVENT/CRITERIA	RATING SCALE						COMMENTS
	0	1	2	3	4	5	
I. LOCATION SPECIFIC ACTIVITIES							
A. Onsite monitoring equipment was easily accessible and properly distributed.	0	1	2	3	4	5	
B. Equipment was checked for proper operability prior to its use.	0	1	2	3	4	5	
C. Standard HP practices were employed for entry into actual or potential radiation areas.	0	1	2	3	4	5	
D. Proper survey records, dosimetry, stay times, etc. were maintained during entry.	0	1	2	3	4	5	
E. Survey results were reported to the appropriate personnel.	0	1	2	3	4	5	
F. Follow-up actions were taken on survey results.	0	1	2	3	4	5	
G. Pocket dosimeters were frequently checked and properly logged.	0	1	2	3	4	5	
H. The TSC and EOF's habitability was frequently monitored.	0	1	2	3	4	5	
I. Team members had adequate understanding of proper utilization of equipment (survey instruments, radios, SCBA's, etc.)	0	1	2	3	4	5	

OBSERVER CHECKLIST CONTINUED:

Page 2 of 2

EVENT/CRITERIA	RATING SCALE						COMMENTS
	0	1	2	3	4	5	
J. The onsite radiation team leader received adequate feedback from the TSC to perform his function.							
K. Survey results were systematically recorded by the onsite radiation team leader.							

NOTES

ARKANSAS NUCLEAR ONE

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EMERGENCY PREPAREDNESS EXERCISE

OBSERVER CRITIQUE SHEET

MEDIA CENTER

Listed below are the exercise objectives which are applicable to your area of observation. Use the attached observer checklist, along with any additional observation notes, to evaluate player performance in meeting each objective. Several objectives apply to more than one area. However, your evaluation needs only to address your specifically assigned group or response center's role in meeting such an objective.

Exercise objectives:

8. Preparation of an initial news release from the Corporate office.

Evaluation:

12. Activation of the Joint Media Center at the EOF.

Evaluation:

22. Production and delivery of information in joint AP&L, State, and Federal (if in attendance) news conference from the EOF Joint Media Center.

Evaluation:

41. Utilization of appropriate Emergency Plan Implementing Procedures.

Evaluation:

42. Demonstrate problem solving capabilities of the Emergency Response Organization.

Evaluation:

OBSERVER CHECKLIST

ARKANSAS NUCLEAR ONE

OBSERVER _____

LOCATION/GROUP OBSERVED: _____ MEDIA CENTER

DATE: _____

DIRECTIONS: Circle the number on the rating scale that corresponds to the judgment made by the observer. The Rating Scale is defined as follows:

- 0 - Not Applicable
- 1 - Event/Criteria Missing
- 2 - Unsatisfactory
- 3 - Needs Improvement
- 4 - Satisfactory
- 5 - Exceeds Criteria

EVENT/CRITERIA	RATING SCALE						COMMENTS
	0	1	2	3	4	5	
I. LOCATION SPECIFIC ACTIVITIES							
A. Information received was timely and accurate.	0	1	2	3	4	5	
B. News releases were coordinated with appropriate ERO personnel.	0	1	2	3	4	5	
C. Press conferences were organized, publicized, and adequate in number.	0	1	2	3	4	5	
D. Media personnel were available for public inquiries.	0	1	2	3	4	5	
E. News releases were prepared and disseminated in a frequent and timely basis.	0	1	2	3	4	5	
F. Personnel which prepared news releases were familiar with the plant and plant terminology.	0	1	2	3	4	5	
G. News releases were accurate, easily understood and timely.	0	1	2	3	4	5	
H. News releases were uniform, i.e., sequentially updating events.	0	1	2	3	4	5	
I. Technical advisors were available to the media and others.	0	1	2	3	4	5	

OBSERVER CHECKLIST CONTINUED:

Page 2 of 2

EVENT/CRITERIA	RATING SCALE						COMMENTS
	0	1	2	3	4	5	
J. Visual aids were available and utilized.	0	1	2	3	4	5	
K. Terminology used in news releases was understandable by the general lay person.	0	1	2	3	4	5	
L. Media were provided clear instructions on building access and Media Center operations.	0	1	2	3	4	5	
M. News releases were cleared by the EC/EOFD.	0	1	2	3	4	5	
N. The Communications Manager was clearly in charge of the Media Center operations.	0	1	2	3	4	5	
O. Rumors and distorted information were dealt with in a satisfactory manner.	0	1	2	3	4	5	
P. A smooth transition was made between the shift change at the Media Center.	0	1	2	3	4	5	
Q. Logs of events and communications were maintained and updated.	0	1	2	3	4	5	
R. Supplies and equipment for press releases and Media Center operations was adequate.	0	1	2	3	4	5	
S. Sufficient technical information was provided to the Utility Advisory personnel so that they could update the industry.							

NOTES

ARKANSAS NUCLEAR ONE

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EMERGENCY PREPAREDNESS EXERCISE

OBSERVER CRITIQUE SHEET

DOSE ASSESSMENT

Listed below are the exercise objectives which are applicable to your area of observation. Use the attached observer checklist, along with any additional observation notes, to evaluate player performance in meeting each objective. Several objectives apply to more than one area. However, your evaluation needs only to address your specifically assigned group or response center's role in meeting such an objective.

Exercise objectives:

30. Coordination of offsite radiological field monitoring with State personnel.

Evaluation:

32. Coordination between field monitoring teams and dose assessment personnel (i.e., between the Health Physics Superintendent/Offsite Monitoring Supervisor and the Technical Analysis Superintendent/Dose Assessment Supervisor).

Evaluation:

33. Demonstrate effective use of Offsite Dose Projections procedures from the Control Room, Technical Support Center, and Emergency Operations Facility (as dictated by the scenario).

Evaluation:

33. Utilize the Gaseous Effluent Radiation Monitoring System and the Safety Parameter Display System.

Evaluation:

41. Utilization of appropriate Emergency Plan Implementing Procedures.

Evaluation:

42. Demonstrate problem solving capabilities of the Emergency Response Organization.

Evaluation:

OBSERVER CHECKLIST

ARKANSAS NUCLEAR ONE

OBSERVER _____

LOCATION/GROUP OBSERVED: _____ DOSE ASSESSMENT _____

DATE: _____

DIRECTIONS: Circle the number on the rating scale that corresponds to the judgment made by the observer. The Rating Scale is defined as follows:

- 0 - Not Applicable
- 1 - Event/Criteria Missing
- 2 - Unsatisfactory
- 3 - Needs Improvement
- 4 - Satisfactory
- 5 - Exceeds Criteria

EVENT/CRITERIA	RATING SCALE						COMMENTS
	0	1	2	3	4	5	
I. LOCATION SPECIFIC ACTIVITIES							
A. Initial and subsequent dose calculations were performed in a timely manner.	0	1	2	3	4	5	
B. Computerized equipment was properly utilized.	0	1	2	3	4	5	
C. Plume was defined and tracked.	0	1	2	3	4	5	
D. Teams were contacted, briefed, and activated expeditiously.	0	1	2	3	4	5	
E. Personnel were efficiently utilized.	0	1	2	3	4	5	
F. Dose Assessment Supervisor initiated and provided periodic updates to the REAM.	0	1	2	3	4	5	
G. Offsite monitoring data were coordinated with State.	0	1	2	3	4	5	
H. Comparisons were made between projected and actual field measurements.	0	1	2	3	4	5	
I. Dose assessment and offsite monitoring supervisors were provided with adequate information to perform their duties.	0	1	2	3	4	5	

NOTES

ARKANSAS NUCLEAR ONE

1985

EMERGENCY PREPAREDNESS EXERCISE

OBSERVER CRITIQUE SHEET

LITTLE ROCK CONTROL CENTER

Listed below are the exercise objectives which are applicable to your area of observation. Use the attached observer checklist, along with any additional observation notes, to evaluate player performance in meeting each objective. Several objectives apply to more than one area. However, your evaluation needs only to address your specifically assigned group or response center's role in meeting such an objective.

Exercise objectives:

4. Notification of the Little Rock Corporate Official by Little Rock Control Center personnel.

Evaluation:

41. Utilization of appropriate Emergency Plan Implementing Procedures.

Evaluation:

42. Demonstrate problem solving capabilities of the Emergency Response Organization.

Evaluation:

OBSERVER CHECKLIST

ARKANSAS NUCLEAR ONE

OBSERVER _____

LOCATION/GROUP OBSERVED: LITTLE ROCK SUPPORT CENTER & LRCC

DATE: _____

DIRECTIONS: Circle the number on the rating scale that corresponds to the judgment made by the observer. The Rating Scale is defined as follows:

- 0 - Not Applicable
- 1 - Event/Criteria Missing
- 2 - Unsatisfactory
- 3 - Needs Improvement
- 4 - Satisfactory
- 5 - Exceeds Criteria

EVENT/CRITERIA	RATING SCALE						COMMENTS
	0	1	2	3	4	5	
I. LOCATION SPECIFIC ACTIVITIES							
A. LRCC receives and transmits Notification of Unusual Event in a timely manner.	0	1	2	3	4	5	
B. LRCC receives and transmits Alert in a timely manner.	0	1	2	3	4	5	
C. LRSC is established in a timely manner.	0	1	2	3	4	5	
D. EOFD notifies appropriate personnel of Alert event.	0	1	2	3	4	5	
E. Established communication linkage with ANO (TSC if activated).	0	1	2	3	4	5	
F. Begins preparation of initial press release.	0	1	2	3	4	5	
G. Activates LRSC with phones and 5520 Display Writer.	0	1	2	3	4	5	
H. Radiological Environmental Assessment Manager makes an assessment to activate off-site radiological monitoring teams.	0	1	2	3	4	5	
I. Assess seriousness of situation and determine if further activation is necessary.	0	1	2	3	4	5	

OBSERVER CHECKLIST CONTINUED:

Page 2 of 2

EVENT/CRITERIA	RATING SCALE						COMMENTS
	0	1	2	3	4	5	
J. Communication equipment is operational and consistently manned.	0	1	2	3	4	5	
K. Control and transfer is clear, orderly, and timely.	0	1	2	3	4	5	
L. LRSC contains only essential personnel.	0	1	2	3	4	5	
M. Communications and events are logged according to procedures.	0	1	2	3	4	5	
N. Transfer of command is made clear to EOF at ANO and LRSC staff.	0	1	2	3	4	5	
O. Media team transfers to EOF following initial press release.	0	1	2	3	4	5	
P. Maintain ERO personnel tracking.	0	1	2	3	4	5	
Q. Engineering Support staff is kept informed of events and has made appropriate contacts with vendors or other outside support groups.	0	1	2	3	4	5	
R. Communications Manager is kept up-to-date and provides AP&L staff updated information.	0	1	2	3	4	5	
S. Corporate Communications (Internal Communications) responds to outside calls following appropriate procedures.	0	1	2	3	4	5	

NOTES

ARKANSAS NUCLEAR ONE

1985

EMERGENCY PREPAREDNESS EXERCISE

OBSERVER CRITIQUE SHEET

TECHNICAL SUPPORT CENTER

Listed below are the exercise objectives which are applicable to your area of observation. Use the attached observer checklist, along with any additional observation notes, to evaluate player performance in meeting each objective. Several objectives apply to more than one area. However, your evaluation needs only to address your specifically assigned group or response center's role in meeting such an objective.

Exercise objectives:

2. Classifying and upgrading the emergency through the General Emergency classification.

Evaluation:

3. Notification and call-out of the Initial Response Staff (IRS), Initial Response Organization (IRO), and Emergency Operations Facility Staff (EOFS).

Evaluation:

6. Notification of appropriate Federal, State, and local support groups.

Evaluation:

9. Activation of the Technical Support Center within one hour following the declaration of an Alert (refer to procedure 1903.51, "Turnover of Responsibility").

Evaluation:

10. Activation of the Operational Support Center within one hour following the declaration of an Alert.

Evaluation:

17. Establishment of communications between the Control Room, Technical Support Center, Operational Support Center, Emergency Operations Facility, Little Rock Support Center, NRC, and State and local emergency response officials.

Evaluation:

18. Coordination between the Control Room, Technical Support Center, Operational Support Center, Emergency Operations Facility and Little Rock Support Center throughout the exercise.

Evaluation:

19. Transfer command and control responsibilities (and maintain continuity) from the Initial Response Staff to the Initial Response Organization and from the Initial Response Organization to the Emergency Operations Facility Staff.

Evaluation:

20. Coordination with state and local officials at the Technical Operations Control Center, Technical Support Center, Emergency Operations Facility and the five county Emergency Operations Centers as requested.

Evaluation:

21. Coordination between the Control Room, Technical Support Center, Emergency Operations Facility and the Arkansas Department of Health on Protective Action Recommendations.

Evaluation:

30. Coordination of offsite radiological field monitoring with State personnel.

Evaluation:

32. Coordination between field monitoring teams and dose assessment personnel (i.e., between the Health Physics Superintendent/Offsite Monitoring Supervisor and the Technical Analysis Superintendent/Dose Assessment Supervisor).

Evaluation:

35. Utilize the Gaseous Effluent Radiation Monitoring System and the Safety Parameter Display System

Evaluation:

41. Utilization of appropriate Emergency Plan Implementing Procedures.

Evaluation:

42. Demonstrate problem solving capabilities of the Emergency Response Organization.

Evaluation:

43. Formation of a Recovery Group.

Evaluation:

44. Demonstrate initial recovery reentry actions.

Evaluation:

46. Coordination with State and Federal (if in attendance) agencies to down-grade and terminate the emergency.

Evaluation:

OBSERVER CHECKLIST

ARKANSAS NUCLEAR ONE

OBSERVER _____

LOCATION/GROUP OBSERVED: _____ TECHNICAL SUPPORT CENTER

DATE: _____

DIRECTIONS: Circle the number on the rating scale that corresponds to the judgment made by the observer. The Rating Scale is defined as follows:

- 0 - Not Applicable
- 1 - Event/Criteria Missing
- 2 - Unsatisfactory
- 3 - Needs Improvement
- 4 - Satisfactory
- 5 - Exceeds Criteria

EVENT/CRITERIA	RATING SCALE						COMMENTS
	0	1	2	3	4	5	
I. LOCATION SPECIFIC ACTIVITIES							
A. The TSC assumes overall command and control when activated.	0	1	2	3	4	5	
B. TSC takes responsibility for offsite dose projections.	0	1	2	3	4	5	
C. TSC takes responsibility for NRC and other notifications.	0	1	2	3	4	5	
D. Emergency Coordinator should assign someone to perform notifications.	0	1	2	3	4	5	
E. Command is clearly transferred from DEC to EC.	0	1	2	3	4	5	
F. Offsite monitoring teams are dispatched effectively.	0	1	2	3	4	5	
G. Periodic update by EC is provided to TSC.	0	1	2	3	4	5	
H. Followed up condition of injured person.	0	1	2	3	4	5	
I. EC made periodic briefings to staff.	0	1	2	3	4	5	

OBSERVER CHECKLIST CONTINUED: TECHNICAL SUPPORT CENTER

Page 2 of 2

EVENT/CRITERIA	RATING SCALE						COMMENTS
	0	1	2	3	4	5	
J. Plant evacuation is coordinated between the EC and Shift Supervisor.	0	1	2	3	4	5	
K. Accountability is made following evacuation.	0	1	2	3	4	5	
L. Inplant radiological monitoring results are followed by the TSC.	0	1	2	3	4	5	
M. Evaluation of individual doses of those individuals who remain in the plant is performed.	0	1	2	3	4	5	
N. The TSC is provided with evaluation offsite dose readings.	0	1	2	3	4	5	
O. Interface/communications with TSC and EOF staffs occurs frequently.	0	1	2	3	4	5	
P. Transfer of command is made clear.	0	1	2	3	4	5	
Q. Coordination between AP&L and the State is carried out by the TSC prior to EOF activation.	0	1	2	3	4	5	
R. Recovery actions are developed and coordinated between TSC and EOF.	0	1	2	3	4	5	
S. Downgrading actions are developed.	0	1	2	3	4	5	
T. Person in charge is clearly identified.	0	1	2	3	4	5	

NOTES

I. EXERCISE OBJECTIVES

REX-'85

AP&L OBJECTIVES

1. Begin exercise after normal working hours (between 6:00 p.m. and midnight).
2. Classifying and upgrading the emergency through the General Emergency classification.
3. Notification and call-out of the Initial Response Staff (IRS), Initial Response Organization (IRO), and Emergency Operations Facility Staff (EOFS).
4. Notification of the Little Rock Corporate Official by Little Rock Control Center personnel.
5. Notification of appropriate vendor and consultant support groups.
6. Notification of appropriate Federal, State and local support groups.
7. Formation of the Emergency Operations Facility Staff response from Little Rock.
8. Preparation of an initial news release from the Corporate office.
9. Activation of the Technical Support Center within one hour following the declaration of an Alert.
10. Activation of the Operational Support Center within one hour following the declaration of an Alert.
11. Activation of the Emergency Operations Facility within three to four hours following the declaration of a Site Area Emergency.
12. Activation of the Joint Media Center at the EOF.
13. Activation of the Little Rock Support Center.
14. Activation and transfer of the Emergency Operations Facility Staff from Little Rock to Russellville.
15. Activation and transfer of General Office Technical Analysis laboratory personnel from Little Rock to Russellville.
16. Demonstrate effective use of communications equipment during transfer of the Emergency Operations Facility Staff from Little Rock to ANO.

REX-'85

17. Establishment of communications between the Control Room, Technical Support Center, Operational Support Center, Emergency Operations Facility, Little Rock Support Center, NRC, and State and local emergency response officials.
18. Coordination between the Control Room, Technical Support Center, Operational Support Center, Emergency Operations Facility and Little Rock Support Center throughout the exercise.
19. Transfer command and control responsibilities (and maintain continuity) from the Initial Response Staff to the Initial Response Organization and from the Initial Response Organization to the Emergency Operations Facility Staff.
20. Coordination with State and local officials at the Technical Operations Control Center, Technical Support Center, Emergency Operations Facility and the five-county Emergency Operations Centers as requested.
21. Coordination between the Control Room, Technical Support Center, Emergency Operations Facility and the Arkansas Department of Health on Protective Action Recommendations.
22. Production and delivery of information in joint AP&L, State, and Federal (if in attendance) news conference from the EOF Joint Media Center.
23. Activation of the Emergency Medical Team.
24. Emergency Medical Team response to a simulated injured and radioactively contaminated individual(s) at St. Mary's Hospital.
25. Transportation of a simulated injured and radioactively contaminated individual(s) to St. Mary's Hospital.
26. Coordination between AP&L and St. Mary's Hospital staff for the handling of a simulated injured and radioactively contaminated individual(s).
27. Activation of the Emergency Radiation Team.
28. Radiation monitoring of plant areas by the Onsite section of the Emergency Radiation Team.
29. Offsite radiological field monitoring by the Offsite section of the Emergency Radiation Team.
30. Coordination of offsite radiological field monitoring with State personnel.

REX-'85

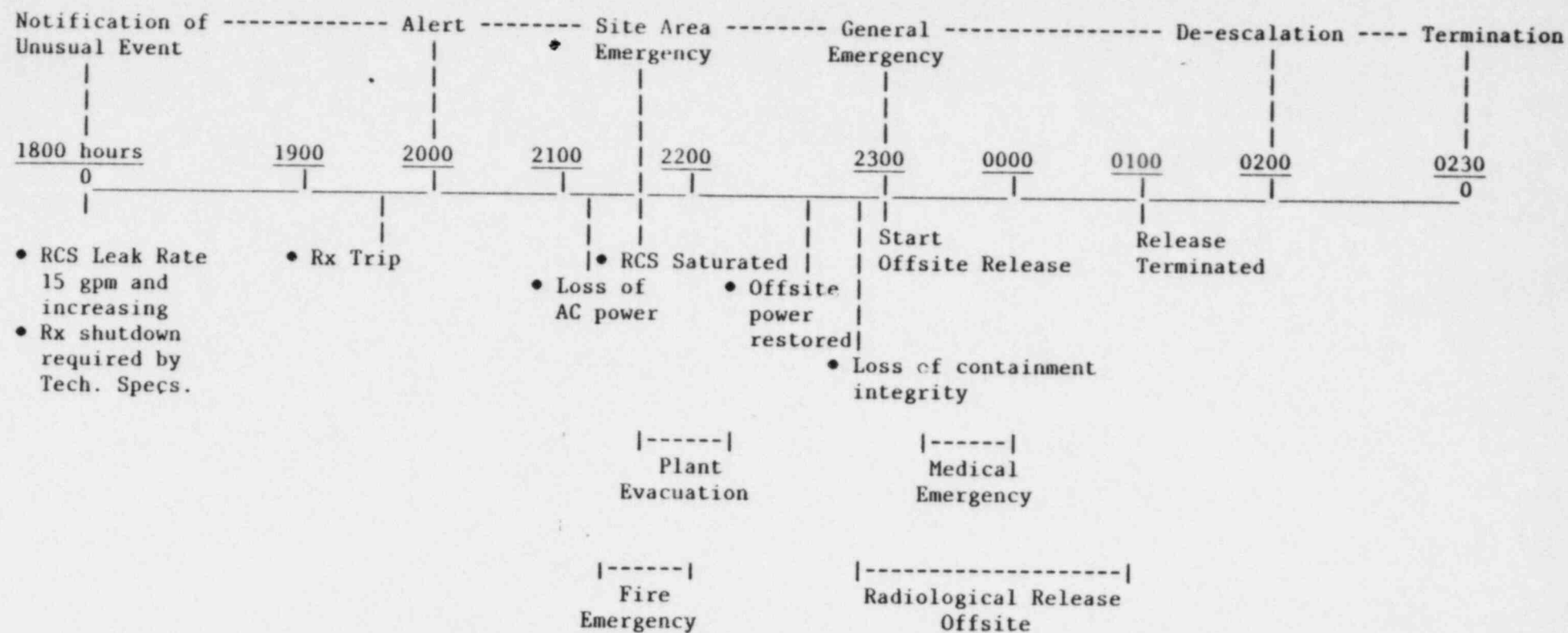
31. Demonstrate radiation/contamination monitoring of the Control Room, Technical Support Center and EOF.
32. Coordination between field monitoring teams and dose assessment personnel (i.e., between the Health Physics Superintendent/Offsite Monitoring Supervisor and the Technical Analysis Superintendent/Dose Assessment Supervisor).
33. Demonstrate effective use of Offsite Dose Projections procedures from the Control Room, Technical Support Center and Emergency Operations Facility (as dictated by the scenario).
34. Utilize the Post Accident Sampling System to analyze the primary system (RCS).
35. Utilize the Gaseous Effluent Radiation Monitoring System and the Safety Parameter Display System.
36. Evacuation of the Plant and/or Exclusion Area.
37. Demonstrate personnel accountability following evacuation.
38. Demonstrate the ability to control access to the Exclusion Area and the establishment of road blocks.
39. Demonstrate security at the Emergency Operations Facility.
40. Demonstrate emergency response capability during night conditions.
41. Utilization of appropriate Emergency Plan Implementing Procedures.
42. Demonstrate problem solving capabilities of the Emergency Response Organization.
43. Formation of a Recovery group.
44. Demonstrate initial recovery and reentry actions.
45. Reentry of damaged plant for maintenance activities while wearing protective equipment and clothing.
46. Coordination with State and Federal (if in attendance) agencies to downgrade and terminate the emergency.

NOTE: Shift changing and initial staffing of ERO positions by second and third shifts were considered during the development of this scenario. With regard to having second or third shift personnel conduct the exercise, an analysis of our activation procedures and typical personnel availability indicated that in response to an actual emergency we could expect the majority of responders to be primary personnel. This would not be true in some cases due to travel, illness, etc. This fact will be reflected in the exercise by several ERO positions being staffed initially with second or third shift personnel. Additional examples of this may occur during the notification process since initial activation will not occur during business hours.

A shift change was not included since the time frame and duration of this exercise are critical to the objectives of the State and local agencies. Lengthening the scenario time line to allow significant playing time for second shift personnel adversely impacted those off-site objectives. A future exercise will be designed to demonstrate a complete ERO shift change.

II. NARRATIVE SCENARIO SUMMARY

REX-85

SCENARIO TIMELINE

ARKANSAS POWER AND LIGHT COMPANY

ARKANSAS NUCLEAR ONE

1985 EMERGENCY PREPAREDNESS EXERCISE

Narrative Summary of Exercise Scenario

The exercise scenario is based on a series of events which result from a Reactor Coolant System (RCS) leak through a pressurizer safety valve and subsequent loss of AC power.

The exercise will begin at 1800 hours on Wednesday, April 24, 1985, with the following initial conditions:

1. Unit 2 is at 100% power and full load. The unit has been on line for 68 days.
2. A 10 gpm Reactor Coolant System leak, which developed through pressurizer safety valve 2PSV-4633, placed Unit 2 in a 4 hour action statement at 1400 hours (Reference Unit 2 Tech. Spec. Limiting Condition for Operation 3.4.6.2).
3. "C" Charging Pump is out of service for maintenance.
4. #2 Diesel Generator is out of service for replacement of turbocharger. Surveillance on #1 Diesel Generator is required once per shift. Two have been performed prior to this shift.
5. The leak has been increasing steadily since 1400 hours. By 1800 hours the RCS leak rate is estimated at 15 gpm.

Upon expiration of the 4 hour action statement, at 1800, the Shift Operations Supervisor directs that the unit be shut down in accordance with Tech. Specs. The unit is to be placed in Hot Standby within 6 hours and Cold Shutdown within the following 30 hours. In conjunction with the initiation of plant shutdown, the Shift Operations Supervisor will declare a Notification of Unusual Event in accordance with procedure 1903.10, "Emergency Action Level Response/Notifications", Section 6.1.5. This section directs a Notification of Unusual Event to be declared whenever a reactor shutdown is required by the Limiting Conditions for Operation of the units Technical Specifications.

By 1945 hours reactor power has been reduced to 70%. A feedwater control problem develops resulting in a reactor trip on low steam generator level. Actuation of Emergency Feedwater occurs, however, Emergency Feedwater Pump 2P7A fails due to a bearing seizure. Emergency feedwater is then supplied by 2P7B.

The following events occur as a result of the transient:

1. The RCS leak from the pressurizer safety valve increases rapidly to 168 gpm.
2. SIAS actuates.
3. The RCS goes solid.
4. The quench tank relief is lifted and rupture disc blows.

The Plant Operator reports to the Shift Operations Supervisor that High Pressure Safety Injection (HPSI) flow is 80 gpm. The Shift Operations Supervisor is aware that, due to the unavailability of "C" Charging Pump, maximum charging capacity is 88 gpm. An Alert will be declared at 2000 hours due to RCS leakage greater than normal makeup capacity. Activation of the Initial Response Organization will begin at this time. Approximately one hour following the declaration of an Alert, the Emergency Coordinator will accept responsibility for overall response, including offsite Notifications and offsite Protective Action Recommendations.

At 2115 hours, a ground fault will lock out startup #3 transformer resulting in a loss of offsite power. Subsequently #1 Diesel Generator fails to energize vital bus 2A3. The cause of the failure of #1 Diesel Generator is a fire in the generator winding. The fire brigade will respond at this time. Operators attempt to restore offsite power via startup #2 transformer, however, a faulty protective relay has activated a lockout of the transformer. Upon the loss of all AC power, all active mechanisms for core cooling are lost. The following systems will be powered from Unit One and remain available to monitor plant status:

- Safety Parameter Display System (SPDS)
- Gaseous Effluent Radiation Monitoring System (GERMS)
- Post Accident Sampling System (PASS)

At 2130 hours, with offsite power not yet restored, the Reactor Coolant System becomes saturated with a continuing loss of inventory. A Site Area Emergency will be declared based on the saturated condition of the RCS. This declaration will initiate an evacuation of non-essential personnel from the plant and an activation of the entire Emergency Response Organization.

A representative sample of plant evacuees will be selected and directed to the Atkins Emergency Worker Center for processing.

At 2155 the fire in #1 Diesel Generator room will be extinguished.

Restoration of startup #2 transformer will occur at 2235. With vital busses 2A3 and 2A4 now energized, operators attempt to re-establish core cooling. However, when "A" HPSI pump starts, no discharge pressure nor flow indication are observed. Core cooling will be initiated using "B" HPSI pump.

The Waste Control Operator, who is in the auxiliary building, reports that when "A" HPSI pump was started the coupling came apart and sheared a PASS sample line upstream of 2PS-189. Area radiation monitors are alarming and he will be unable to seal the watertight door to "A" HPSI room before being forced to exit the area. Operators will attempt to isolate the leak by closing Reactor Building sump valve 2CV-5647-1, however, a burned out control power transformer in breaker 52-51K1 will prevent valve operation.

The following conditions will exist at 2300 hours:

- RCS boundary has been breached.
- Containment integrity has been lost.
- A high probability for fuel cladding failure exists.
- A radiological release pathway to the offsite environment has developed.

A General Emergency will be declared. Assessment of offsite dose consequences will be performed by the Dose Assessment Team and Emergency Radiation Team.

Offsite protective action recommendations will be updated and issued to the Arkansas Department of Health. Site boundary dose rates at 2310 will be projected at ~9 mR/hr Whole Body and 2.25 E-1 mR/hr Child Thyroid and increasing.

At 2320 the Shift Maintenance Supervisor will report to the Shift Operations Supervisor that he has been unable to contact one of his mechanics who was working in the Upper South Piping Penetration Room. The Waste Control Operator will be sent to investigate. He will find the mechanic lying unconscious on the floor. It will appear that he has fallen from the nearby scaffold. The Emergency Medical Team will respond. Additionally, since there is a potential for contamination, an Emergency Radiation Team member will be dispatched. The victim will be transported, by the Pope County Emergency Medical Service, to St. Mary's Hospital for further treatment.

Turnover of overall responsibility for the emergency response from the Emergency Coordinator to the Emergency Operations Facility Director will occur within 3 to 4 hours following declaration of a Site Area Emergency (i.e. 0030 - 0130 hours).

At 0100 the leak from containment will be terminated when repairs to breaker 52-51K1 are completed, which will allow operators to close reactor building sump valve 2CV-5647-1. Dose assessment and Offsite Monitoring activities will continue until approximately 0230. During this time period, decreasing site boundary dose rates will allow de-escalation of the emergency.

At 0230, AP&L's participation in the exercise will terminate.

III. DETAILED DESCRIPTION OF EVENTS

REX-85

DETAILED DESCRIPTION OF EVENTS

INITIAL CONDITIONS

ANO-2 is operating at 100% power. At 1400 hours a 10 gpm RCS leak develops through pressurizer safety valve 2PSV-4633. This condition initiates a four hour action statement per Unit Two Technical Specification Limiting Condition for Operation 3.4.6.2. The leak rate through the safety is increasing and by 1600 hours is estimated at 13 gpm; by 1800 hours at 15 gpm.

Components Out of Service

<u>Component</u>	<u>Reason</u>
#2 Diesel Generator	Turbocharger replacement
"C" Charging Pump	Change out of pulsation dampening bladder
Main Turbine Shaft	In service failure
Voltage Indicator	

Other Problem Areas

"A" Main Feedwater Pump	EH Fluid Leak (1.19 gph)
Makeup Plant	Acid Leak

SIMULATED EVENTS

- Several scenario events will require status reports from the Waste Control Operator, in the Auxiliary Building, to the Control Room. His actual entry into those portions of the plant will be simulated. A controller will direct him to a remote location from which his reports can be made.
- The scenario places the site of the medical emergency in the Unit 2 Upper South Piping Penetration Room of the Auxiliary Building. In order to adhere to ALARA concepts, this event will actually take place in the Unit I Boric Acid Mix Tank Room on the 386' elevation of the Auxiliary Building.

DETAILED DESCRIPTION OF EVENTS

TIME	EVENT	ANTICIPATED RESPONSE
1800	<p>The exercise begins as Unit Two reaches the end of a 4 hour action statement due to primary leakage greater than Tech. Spec. limits. The leak rate has increased over the previous four hour period from 10 gpm to 15 gpm. The source of the leak is pressurizer safety valve 2PSV-4633. This event places the unit in a Tech. Spec. limiting condition for operation which requires a reactor shutdown.</p>	<p>Operators should initiate shutdown in accordance with Tech. Spec. 3.4.6.2 which requires the unit to be placed in Hot Standby within the next 6 hours and in Cold Shutdown within the following 30 hours.</p> <p>The Shift Supervisor (DEC) should declare a Notification of Unusual Event per Procedure 1903.10, "Emergency Action Level Response/Notifications", Section 6.1.5.</p> <p>The Shift Supervisor should carryout the duties and responsibilities of the Duty Emergency Coordinator (DEC) which include activation and direction of the Initial Response Staff, notifications to offsite authorities, and protective action recommendations.</p> <p>He should direct the SAA to make notifications to offsite authorities.</p>
1945	<p>Feedwater control problems during shutdown result in a reactor trip from 70% on low Steam Generator level. Emergency Feedwater Pump 2P7A fails to autostart due to pump bearing seizure.</p> <p>SIAS actuated.</p> <p>Quench tank relief valve lifts and rupture disc is blown.</p> <p>Reactor Coolant System goes solid. (The leak from the pressurizer safety valve is now liquid rather than steam.)</p>	<p>2P7B autostarts and begins supplying emergency feedwater.</p>

DETAILED DESCRIPTION OF EVENTS

TIME	EVENT	ANTICIPATED RESPONSE
2000	<p>Leakage from the pressurizer safety valve 2PSV-4633 is now estimated at 168 gpm.</p> <p>The Shift Supervisor is aware that maximum charging capacity is 88 gpm and observes 20 gpm flow indication on each HPSI injection line.</p>	<p>The Shift Supervisor should declare an Alert in accordance with Procedure 1903.10, "Emergency Action Level Response/Notifications", Section 7.1.2.C - RCS leakage greater than normal make-up capacity.</p> <p>The Duty Emergency Coordinator should direct the SAA to notify offsite authorities and initiate activation of the Initial Response Organization.</p>
2100		<p>Anticipate completion of turnover of responsibility for <u>Notifications</u>, <u>Offsite Protective Action Recommendations</u>, and <u>overall emergency response</u> from the Initial Response Staff to the Initial Response Organization.</p>
2115	<p>Offsite power is lost. A ground fault locks out startup #3 transformer. #1 Diesel Generator fails to energize vital bus 2A4.</p>	<p>Operators should attempt to restore offsite power via startup #2 transformer.</p>
2116	<p>Fire alarm for #1 Diesel Generator room comes in.</p>	<p>Dispatch Fire Brigade.</p>
2118	<p>#2 Startup Transformer is unable to supply offsite power due to lockouts of buses 2A1 and 2A2. A faulty protective relay activated a lockout of the transformer.</p>	<p>Repair efforts to restore offsite power should be initiated. Personnel from the relay shop may be called out to correct the problem.</p>
2122	<p>Fire Brigade reports to the Shift Supervisor that there is a fire in the generator winding. Also the control cabinet has ignited as a result of a short through the exciter.</p>	

DETAILED DESCRIPTION OF EVENTS

TIME	EVENT	ANTICIPATED RESPONSE
2130	<p>Offsite power has not been restored and there is no makeup capability to the RCS. The RCS is in a saturated condition.</p> <p>A representative sample of plant evacuees will be directed to the Atkins Emergency Worker Center.</p>	<p>A Site Area Emergency should be declared in accordance with Procedure 1903.10, "Emergency Action Level Response/Notifications", Section 8.1.2.</p> <p>A plant evacuation of non-essential personnel should be declared. The Emergency Coordinator should initiate notifications to offsite authorities and activation of the entire AP&L Emergency Response Organization.</p>
2155	Fire Brigade Leader reports to the Shift Supervisor that the fire in #1 Diesel Generator room has been extinguished.	The Shift Supervisor should obtain an assessment of the damage and estimated repair time.
~2200		Anticipate a request for a PASS sample.
2235	Startup Transformer #2 is restored. Safeguard buses 2A3 and 2A4 are re-energized.	
2237	There is no discharge pressure nor flow indication for "A" HPSI pump. "B" HPSI pump autostarts.	The Shift Supervisor will direct a Waste Control Operator, who is in the vicinity, to investigate the failure of "A" HPSI pump.
2240	The Waste Control Operator reports that the coupling on "A" HPSI pump has broken apart and the debris has sheared a PASS sample line upstream of 2PS-189.	Operators should attempt to isolate the "A" HPSI pump room and close RB sump valve 2CV-5647-1.

DETAILED DESCRIPTION OF EVENTS

TIME	EVENT	ANTICIPATED RESPONSE
2243	The breaker which supplies 2CV-5647-1 trips immediately when operators attempt to close the valve leaving the valve in the failed open position.	An operator should be dispatched to reset the breaker.
2250	The Waste Control Operator on 317' reports that he cannot get the watertight door to "A" HPSI room sealed. Area radiation monitors on 317' are in alarm and the stack monitor reading is increasing.	The Shift Supervisor orders the Waste Control Operator out of the area.
2252	Shift Supervisor receives report that the control power transformer in the breaker for 2CV-5647-1 has burned out.	Repair efforts should be initiated.
2300	At this point, two of the three fission product barriers have been breached and there is a high probability that cladding damage has occurred. A radiological release to the offsite environment has begun.	<p>A General Emergency should be declared in accordance with Procedure 1903.10, "Emergency Action Level Response/Notifications", Section 9.1.2.</p> <p>The Initial Response Organization, lead by the Emergency Coordinator, is currently maintaining command and control of the emergency response.</p> <p>The Emergency Coordinator should initiate the following:</p> <ul style="list-style-type: none"> • Notification of offsite authorities • Notification of AP&L personnel • Deployment of the offsite monitoring teams • Offsite dose projections and updating of offsite protective action recommendations • Direction of repair and recovery efforts.

DETAILED DESCRIPTION OF EVENTS

TIME	EVENT	ANTICIPATED RESPONSE
2310	Dose projections indicate site boundary dose rates of 8.36 mR/hr Whole Body and 2.19E-1 mR/hr Child Thyroid. Release rate is increasing.	Ensure offsite authorities are updated. Continue dose assessment and offsite monitoring activities.
2320	Shift Maintenance Supervisor reports to the control room that he has been unable to contact a mechanic who has been working in the upper south piping penetration room. He requests that an operator check on him.	The Shift Operations Supervisor directs the Waste Control Operator to the upper south piping penetration room to check on the mechanic.
2330	The Waste Control operator reports that he has found the mechanic lying unconscious on the floor. It appears that the worker has fallen off a nearby scaffold. Also, his left arm is bleeding.	The Shift Operations Supervisor will activate the Emergency Medical Team. He will also request Emergency Radiation Team support as there appears to be a potential for contamination.
2345	The Emergency Medical Team leader reports that the victim has a lacerated left arm that is bleeding profusely and a possible fractured skull. He also has some contamination around face and injured arm. The victim requires transport to the hospital	<p>An ambulance will be requested from Pope County Emergency Medical Service.</p> <p>St. Mary's Hospital will be notified to prepare for an injury victim who is contaminated. A radiation team member will be dispatched to St. Mary's to assist the Emergency Room staff.</p> <p>Security will be notified that an ambulance will require access to the site from the north gate entrance.</p>
0058	Electricians report that they have completed repairs to the breaker for 2CV-5647-1.	Operators will close 2CV-5647-1 thereby restoring containment integrity.

DETAILED DESCRIPTION OF EVENTS

TIME	EVENT	ANTICIPATED RESPONSE
0100	Leak from containment terminated.	Continue dose assessment, offsite monitoring, and development of protective action recommendations. Provide update to offsite authorities.
		Anticipate turnover of responsibility from the IRO to the EOF staff to be completed. The EOF Director has assumed command and control of the response effort.
~0130	The entire AP&L Emergency Response Organization (ERO) is now activated.	
0200	Exclusion area boundary dose rates have decreased below 50 mR/hr. whole body and below 150 mR/hr. child thyroid.	After obtaining concurrence from NRC and Arkansas Department of Health officials, the EOFD should de-escalate to an Alert.
0230	The Offsite Monitoring Supervisor reports that activity at the exclusion area boundary is less than 1 MPC.	The EOFD should again obtain concurrence from NRC and Arkansas Department of Health officials and then complete de-escalation of the emergency.
	Terminate Exercise.	

IV. EXERCISE MESSAGES

MESSAGES

Controlling messages will be presented to the designated exercise participant at the times specified in the events schedule. The controller should follow up with an explanation of the message and answer questions to ensure that the participant understands the message.

Two kinds of messages will be used:

- Exercise Messages

Messages used as a primary means of implementing scenario events by hypothesizing conditions. These will be supported by simulated data where necessary.

- Contingency Exercise Messages

Messages used at the discretion of the controllers in order to preserve the scenario schedule or continuity of simulated events. These messages will be on yellow paper for identification and are not to be used unless absolutely necessary. The Lead Controller should be advised when a Contingency Message has been issued.

In order to introduce a greater degree of realism, the Safety Parameter Display System will again be used to provide exercise players with plant parameter data. The data displayed by SPDS will be available simultaneously in the Control Room, Technical Support Center, and the Emergency Operations Facility. The Control Room will display real time plant parameters on one SPDS CRT and scenario data on the other.

COMPONENTS OUT OF SERVICE

- #2 Diesel Generator - for replacement of turbocharger
(Surveillances to be run on #1 DG once per shift)
- "C" Charging Pump - change out of pulsation dampening bladder
- Main turbine shaft voltage indicator

OTHER PROBLEM AREAS

- EH fluid leak (1.19 GPH) - "A" Main Feedwater Pump
- Makeup plant acid leak

REX-85

EXERCISE MESSAGE NO. 1

TO: Shift Operations Supervisor

FROM: Control Room Controller

LOCATION: Unit 2 Control Room

TIME: 1800 hours (T + 00:00)

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

A 10 gpm RCS leak was detected at 1400 hours today. The source of the leak is pressurizer safety valve 2PSV-4633.

The leak rate has been steadily increasing since the time of detection and is now estimated at 15 gpm.

Attached is a list of components out of service.

WP850097C

COMPONENTS OUT OF SERVICE

- #2 Diesel Generator - for replacement of turbocharger
(Surveillances to be run on #1 DG once per shift)
- "C" Charging Pump - change out of pulsation dampening bladder
- Main turbine shaft voltage indicator

OTHER PROBLEM AREAS

- EH fluid leak (1.19 GPH) - "A" Main Feedwater Pump
- Makeup plant acid leak

REX-85

CONTINGENCY MESSAGE NO. 1

CONDITIONS: The following conditions must exist before issuing this message:

- 15 minutes have elapsed since the entry of the scenario into an EAL which requires a Notification of Unusual Event.
- The Emergency Class has not yet been declared.
- Approval to issue this message has been obtained from the Lead Controller.

TO: Shift Supervisor

FROM: Control Room Controller

LOCATION: Unit 2 Control Room

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Declare a Notification of Unusual Event!

Basis: Procedure 1903.10, Section 6.1.5

"Reactor Shutdown Required by the Limiting Conditions for Operation of the Unit's Technical Specifications"

REX-85

CONTINGENCY MESSAGE NO. 2

CONDITIONS: The following conditions must exist before issuing this message:

- 30 minutes have elapsed since the declaration of an Emergency Class.
- The Arkansas Department of Health has not yet been notified of the declaration.
- Approval to issue this message has been obtained from the Lead Controller.

TO: Shift Supervisor

FROM: Control Room Controller

LOCATION: Unit 2 Control Room

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Instruct the SAA to notify the Arkansas Department of Health (per Procedure 1903.10) that a Notification of Unusual Event has been declared.

WP850097C

REX-85

EXERCISE MESSAGE NO. 2

TO: Shift Operations Supervisor

FROM: Control Room Controller

LOCATION: Unit 2 Control Room

TIME: 1945 hours (T + 01:44)

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

A reactor trip on low steam generator level has just occurred.

WP850097C

REX-85

EXERCISE MESSAGE NO. 3

TO: Shift Operations Supervisor

FROM: Control Room Controller

LOCATION: Unit 2 Control Room

TIME: 1945 hours (T + 01:45)

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Emergency Feedwater Pump 2P7A failed to start.

Emergency Feedwater Pump 2P7B auto starts.

REX-85

EXERCISE MESSAGE NO. 4

TO: Waste Control Operator
FROM: Control Room Controller
LOCATION: Unit 2 Control Room
TIME: 1955 hours (T + 01:55)

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

You have discovered that EFW pump 2P7A has failed as a result of a bearing seizure.

You have observed that EFW pump 2P7B is operating.

REX-85

EXERCISE MESSAGE NO. 5

TO: Plant Operator
FROM: Control Room Controller
LOCATION: Unit 2 Control Room
TIME: 2000 hours (T + 02:00)

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

You observe 20 gpm flow indication on each HPSI injection line.

WP850097C

REX-85

CONTINGENCY MESSAGE NO. 3

CONDITIONS: The following conditions must exist before issuing this message:

- 15 minutes have elapsed since the entry of the scenario into an EAL which requires the declaration of an Alert.
- The Emergency Class has not yet been declared.
- Approval to issue this message has been obtained from the Lead Controller.

TO: Shift Supervisor

FROM: Control Room Controller

LOCATION: Unit 2 Control Room

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Declare an Alert!

Basis: Procedure 1903.10, Section 7.1.2.C

"RCS Leakage is Greater than Normal Makeup Capacity"

REX-85

CONTINGENCY MESSAGE NO. 4

CONDITIONS: The following conditions must exist before issuing this message:

- 30 minutes have elapsed since the declaration of an Alert.
- The Arkansas Department of Health has not yet been notified of the declaration.
- Approval to issue this message has been obtained from the Lead Controller.

TO: Shift Supervisor

FROM: Control Room Controller

LOCATION: Unit 2 Control Room

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Instruct the SAA to notify the Arkansas Department of Health (per Procedure 1903.10) that an Alert has been declared.

WP850097C

REX-85

EXERCISE MESSAGE NO. 6

TO: Plant Operator
FROM: Control Room Controller
LOCATION: Unit 2 Control Room
TIME: 2115 hours (T + 03:15)

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

An apparent ground fault has locked out startup #3 transformer.
#1 Diesel Generator has failed to energize vital bus 2A3.

WP850097C

REX-85

EXERCISE MESSAGE NO. 7

TO: Assistant Plant Operator

FROM: Control Room Controller

LOCATION: Unit 2 Control Room

TIME: 2116 hours (T + 03:16)

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

The fire alarm for #1 Diesel Generator Room has come in.

WP850097C

REX-85

EXERCISE MESSAGE NO. 8

TO: Plant Operator
FROM: Control Room Controller
LOCATION: Unit 2 Control Room
TIME: 2118 hours (T + 03:18)

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

You are unable to restore offsite power via startup #2 transformer.

REX-85

EXERCISE MESSAGE NO. 9

TO: Fire Brigade Leader

FROM: Fire Emergency Controller

LOCATION: #1 Diesel Generator Room

TIME: Upon arrival of the Fire Brigade to the scene.

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

You observe an electrical fire in the #1 Diesel Generator winding.

You also observe that the control cabinet is on fire.

REX-85

EXERCISE MESSAGE NO. 10

TO: Plant Operator
FROM: Control Room Controller
LOCATION: Unit 2 Control Room
TIME: 2145 hours (T + 03:45)

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Electricians have reported to you that a faulty protective relay has caused a
lockout of startup #2 transformer.

REX-85

EXERCISE MESSAGE NO. 11

TO: Fire Brigade Leader
FROM: Fire Emergency Controller
LOCATION: #2 Diesel Generator Room
TIME: 2155 hours (T + 03:55)

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

The fire has been extinguished!

WP850097C

REX-85

CONTINGENCY MESSAGE NO. 5

CONDITIONS: The following conditions must exist before issuing this message:

- 15 minutes have elapsed since the entry of the scenario into an EAL which requires the declaration of a Site Area Emergency.
- The Emergency Class has not yet been declared.
- Approval to issue this message has been obtained from the Lead Controller.

TO: Shift Supervisor

FROM: Control Room Controller

LOCATION: Unit 2 Control Room

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Declare a Site Area Emergency!

Basis: Procedure 1903.10, Section 8.1.2

"Installed Instrumentation or as Calculated Indicates the
RCS is in a Saturated Condition"

REX-85

CONTINGENCY MESSAGE NO. 6

CONDITIONS: The following conditions must exist before issuing this message:

- 30 minutes have elapsed since the declaration of a Site Area Emergency.
- The Arkansas Department of Health has not yet been notified of the declaration.
- Approval to issue this message has been obtained from the Lead Controller.

TO: Emergency Coordinator

FROM: TSC Controller

LOCATION: TSC

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Instruct your communicator to notify the Arkansas Department of Health (per Procedure 1903.10) that a Site Area Emergency has been declared.

WP850097C

REX-85

CONTINGENCY MESSAGE NO. 7

CONDITIONS: The following conditions must exist before issuing this message:

- 30 minutes have elapsed since the declaration of a Site Area Emergency.
- A plant evacuation of non-essential personnel has not yet occurred.
- Approval to issue this message has been obtained from the Lead Controller.

TO: Shift Supervisor

FROM: Control Room Controller

LOCATION: Unit 2 Control Room

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Initiate a Plant Evacuation of non-essential personnel (Reference Form 1903.10E, Step 6).

WP850097C

REX-85

EXERCISE MESSAGE NO. 12

TO: Plant Operator
FROM: Control Room Controller
LOCATION: Unit 2 Control Room
TIME: 2235 hours (T + 04:35)

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Electricians report that Startup #2 transformer repairs have been completed.
Offsite power is now available.

REX-85

EXERCISE MESSAGE NO. 13

TO: Plant Operator
FROM: Control Room Controller
LOCATION: Unit 2 Control Room
TIME: 2237 hours (T + 04:37)

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

"A" HPSI pump has started, however, no discharge pressure nor flow is indicated.

REX-85

EXERCISE MESSAGE NO. 14

TO: Waste Control Operator
FROM: Control Room Controller
LOCATION: Unit 2 Control Room
TIME: 2240 hours (T + 04:40)

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Go to a telephone outside the control room.

Report to the control room that you are on 317' elevation in the Auxiliary Building. You have observed that the coupling on "A" HPSI pump has broken apart and some debris has sheared the PASS sample line upstream of 2PS-189. Water is leaking into the room.

REX-85

EXERCISE MESSAGE NO. 15

TO: Assistant Plant Operator

FROM: Control Room Controller

LOCATION: Unit 2 Control Room

TIME: 2240 hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Area Radiation Monitor alarm has come in for 2RITS-8900 on 317'.

REX-85

EXERCISE MESSAGE NO. 16

TO: Plant Operator

FROM: Control Room Controller

LOCATION: Unit 2 Control Room

TIME: When Operators attempt to close RB sump valve.

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Power has been lost to Motor Operated Valve 2CV-5647-1.

REX-85

EXERCISE MESSAGE NO. 17

TO: Operator

FROM: Control Room Controller

LOCATION: Switchgear Room

TIME: Upon arrival to investigate breaker failure.

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Breaker 52-51K1 will not reset. The breaker is shut but there is no indication of power to the breaker.

WP850097C

REX-85

EXERCISE MESSAGE NO. 18

TO: Waste Control Operator
FROM: Control Room Controller
LOCATION: Auxiliary Building (Simulated)
TIME: 2250 hours (T + 04:50)

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Area radiation monitors on 317' are in alarm.

Report to the Plant Operator that you were unable to seal the watertight door to "A" HPSI room.

REX-85

EXERCISE MESSAGE NO. 19

TO: Plant Operator
FROM: Control Room Controller
LOCATION: Unit 2 Control Room
TIME: 2252 hours (T + 04:52)

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Electricians report that the control power transformer for breaker 52-51K1 has burned out. Estimated repair time is 90 minutes.

REX-85

CONTINGENCY MESSAGE NO. 8

CONDITIONS: The following conditions must exist before issuing this message:

- 15 minutes have elapsed since the entry of the scenario into an EAL which requires the declaration of a General Emergency.
- The Emergency Class has not yet been declared.
- Approval to issue this message has been obtained from the Lead Controller.

TO: Shift Supervisor

FROM: Control Room Controller

LOCATION: Unit 2 Control Room

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Declare a General Emergency!

Basis: Procedure 1903.10, Section 9.1.2

"Loss of two out of three fission product barriers with a potential loss of the third barrier. Loss of fuel cladding integrity must involve greater than 1% failed fuel (or equivalent reactor coolant system activity); loss of reactor coolant system integrity must involve leakage in excess of makeup capacity; loss of containment integrity must involve mechanical equipment failure (containment purge valves not closed, air lock cannot be closed) or structural damage which would result in uncontrolled leakage from the Reactor Building."

REX-85

EXERCISE MESSAGE NO. 20

TO: Shift Operations Supervisor

FROM: Control Room Controller

LOCATION: Unit 2 Control Room

TIME: 2320 hours (T + 05:20)

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

- You have just received a call from the Shift Maintenance Supervisor.
- He reported that he has been unable to contact a mechanic who is supposed to be working in the Upper South Piping Penetration Room.
- He requests that if the WCO is in the Auxiliary Building that you have him check on the mechanic.

REX-85

CONTINGENCY MESSAGE NO. 9

CONDITIONS: The following conditions must exist before issuing this message:

- 30 minutes have elapsed since the declaration of a General Emergency.
- The Arkansas Department of Health has not yet been notified of the declaration.
- Approval to issue this message has been obtained from the Lead Controller.

TO: Emergency Coordinator

FROM: TSC Controller

LOCATION: TSC

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Instruct your communicator to notify the Arkansas Department of Health (per Procedure 1903.10) that a General Emergency has been declared.

WP850097C

REX-85

EXERCISE MESSAGE NO. 21

TO: Waste Control Operator
FROM: Control Room Controller
LOCATION: Upper South Piping Penetration Room (Simulated)
TIME: 2330 hours (T + 05:30)

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

- You have entered the Upper South Piping Penetration Room and found the mechanic lying unconscious on the floor.
- He appears to have fallen from the nearby scaffolding.
- His left arm is bleeding.

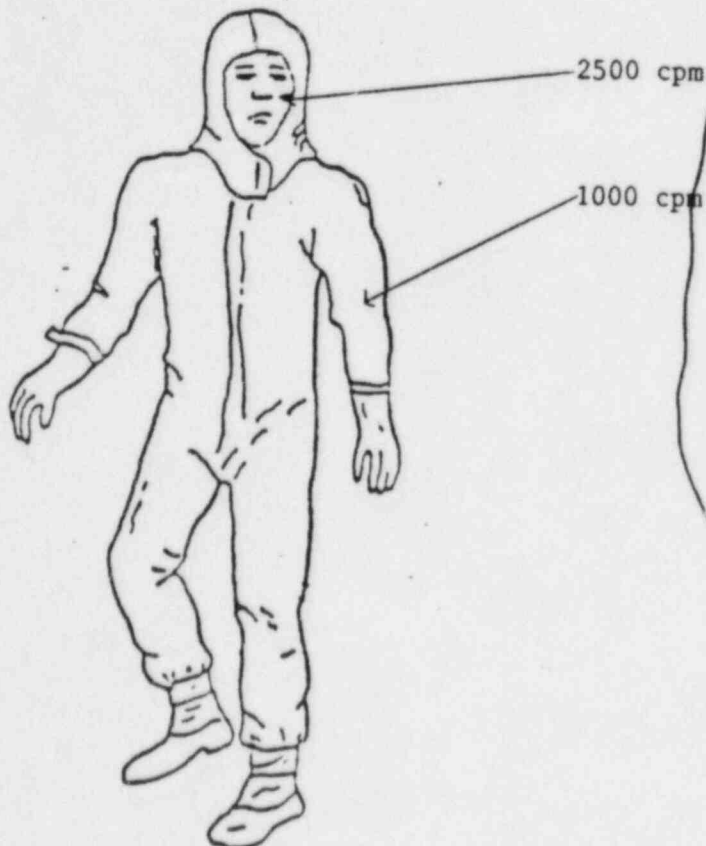
REX-85

EXERCISE MESSAGE NO. 22

TO: Medical Team Leader
FROM: Medical Emergency Controller
LOCATION: Upper South Piping Penetration Room (Simulated)
TIME: Upon examination of injured person

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Contamination



Vital Signs

Blood Pressure - 148/84

Pulse - 120/min.

Respirations - 26/min.

General Condition: Skin warm and dry, pupils equal and reactive to light. Conscious, yet disoriented. Does not remember events of accident.

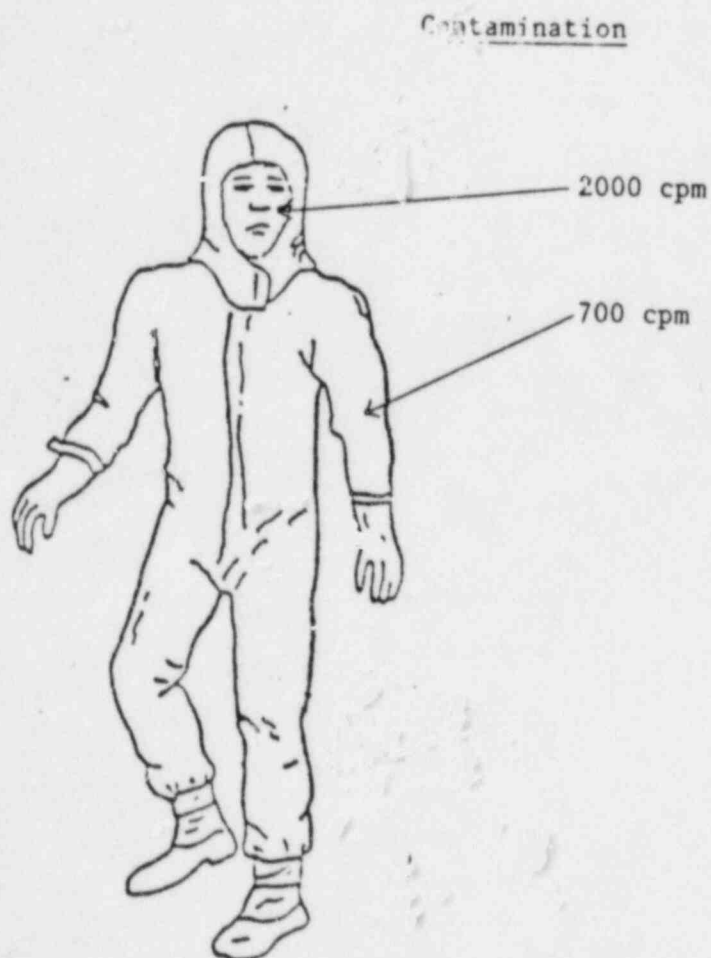
Injuries: Large laceration left upper arm with profuse bleeding. Laceration to base of skull.

REX-85

EXERCISE MESSAGE NO. 23

TO: Medical Team Leader
FROM: Medical Emergency Controller
LOCATION: Upper South Piping Penetration Room (Simulated)
TIME: If protective clothing is removed

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *



Contamination

Vital Signs

Blood Pressure - 140/82

Pulse - 108/min.

Respirations - 22/min.

General Condition: Skin pale, warm and dry. Pupils equal and reactive. Clear drainage observed from right ear. Remains confused.

Injuries: Laceration of left arm. Small laceration to base of skull.

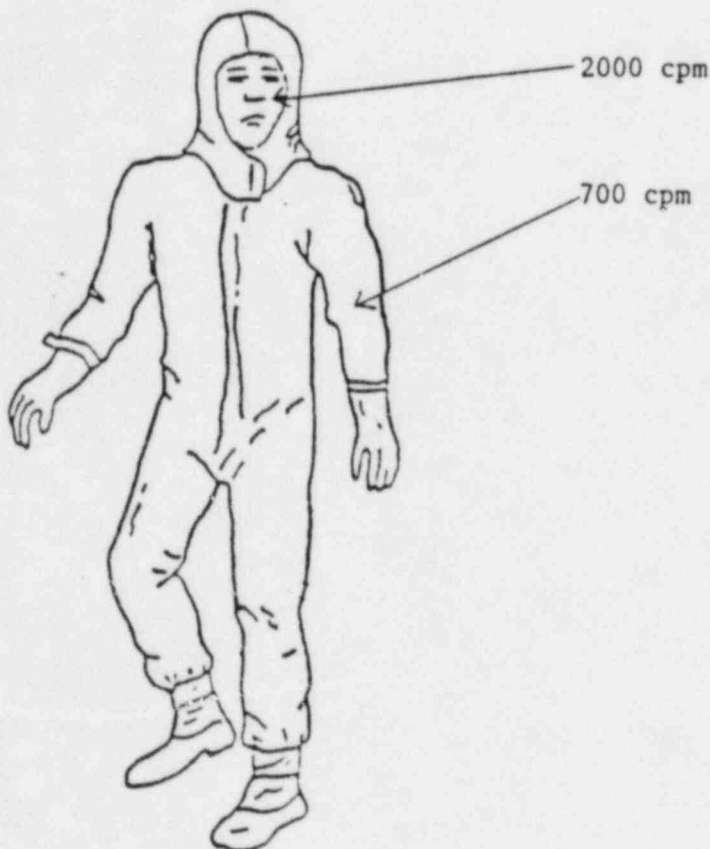
REX-85

EXERCISE MESSAGE NO. 24

TO: Medical Team Leader
FROM: Medical Emergency Controller
TIME: Upon transfer to ambulance, and/or in transit to hospital, and/or arrival at hospital

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Contamination



Vital Signs

Blood Pressure - 138/80

Pulse - 100/min.

Respirations - 22/min.

General Condition: Skin pale, warm and dry. Pupils equal and reactive. Bloody drainage from right nares. Clear drainage from right ear. Bruising noted around eyes. Confused about accident. Knows name and place. Does not know day.

Injuries: Large laceration left upper arm with profuse bleeding. Laceration to base of skull.

REX-85

EXERCISE MESSAGE NO. 25

TO: Plant Operator
FROM: Control Room Controller
LOCATION: Unit 2 Control Room
TIME: 0058 hours (T + 06:58)

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Electricians have completed repairs on breaker 52-51K1. Power has been re-
stored to 2CV-5647-1.

REX-85

EXERCISE MESSAGE NO. 26

TO: Offsite Monitoring Supervisor

FROM: Dose Assessment Controller

LOCATION: EOF (Room 260)

TIME: 0220 hours (T + 08:30)

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

Offsite Monitoring Teams report that activity at the exclusion area boundary is less than 1 MPC.

WP850097C

REX-85

EXERCISE MESSAGE NO. 27

TO: EOFD

FROM: EOF Command Room Controller

LOCATION: EOF

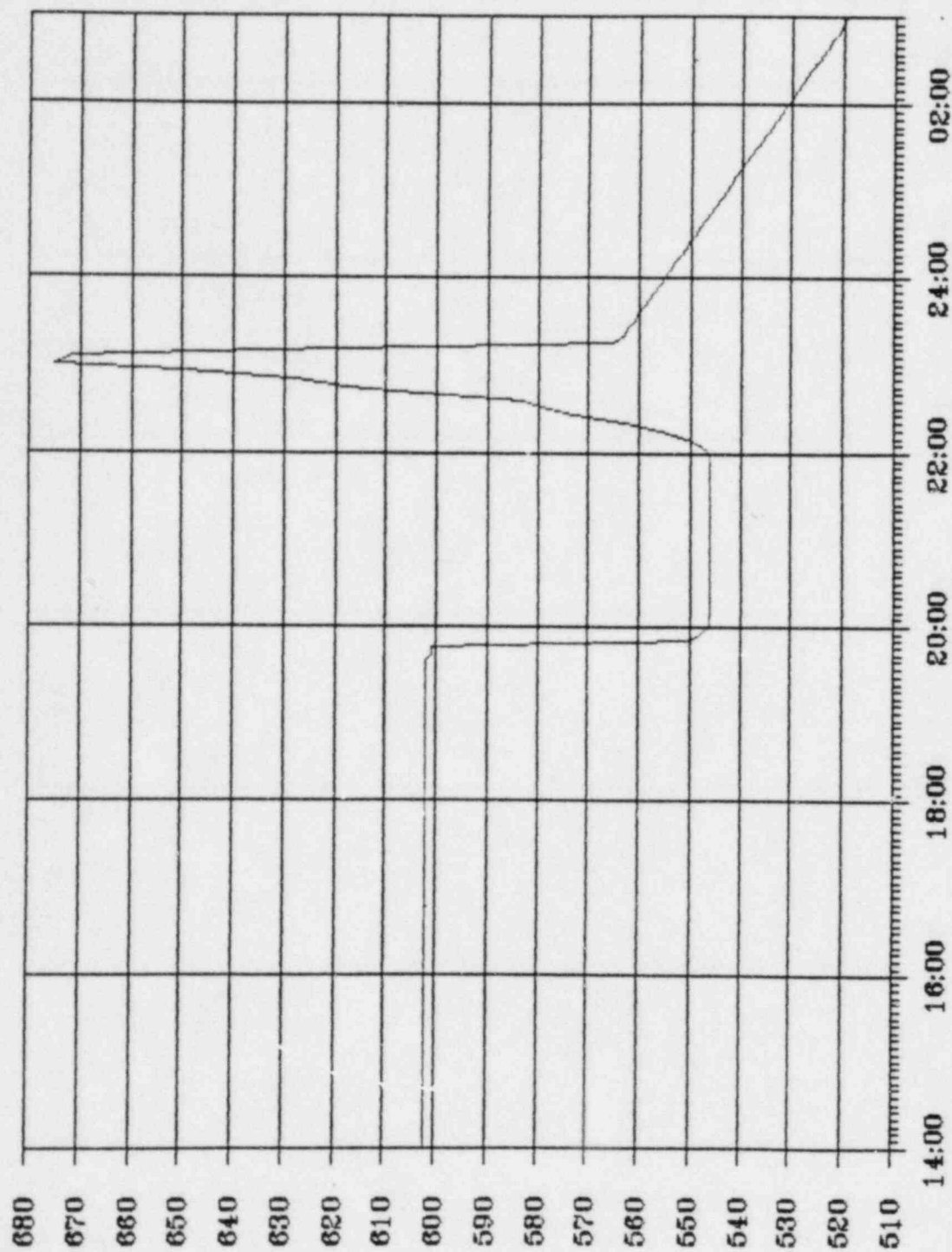
TIME: 0230 hours (T + 08:30)

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

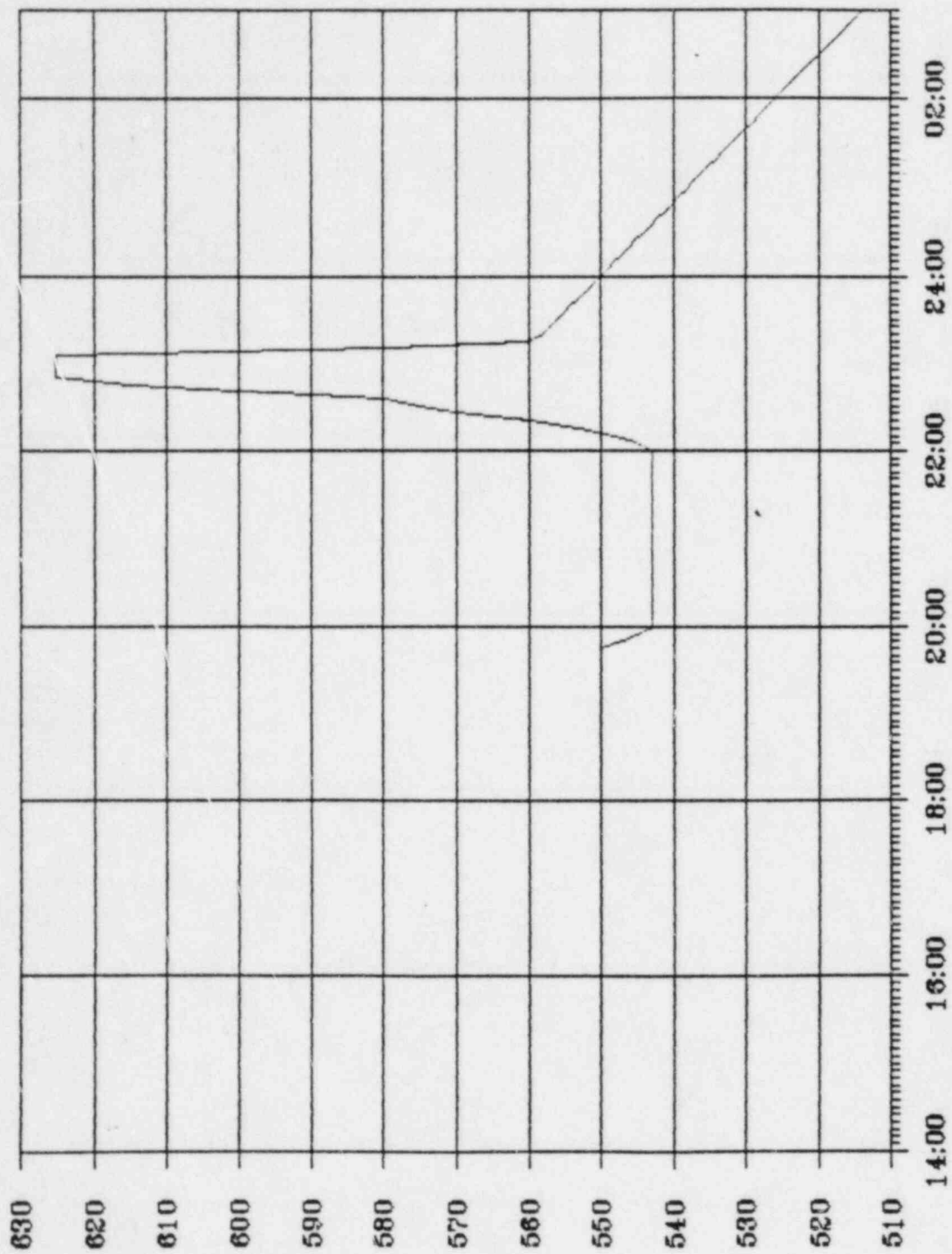
AP&L participation in the exercise will now terminate.

APPENDIX A
PLANT PARAMETER DATA

- Plant parameter data will be provided to the players via the Safety Parameter Display System (SPDS). If, however, SPDS should become unavailable, the information contained in this appendix is provided to controllers.

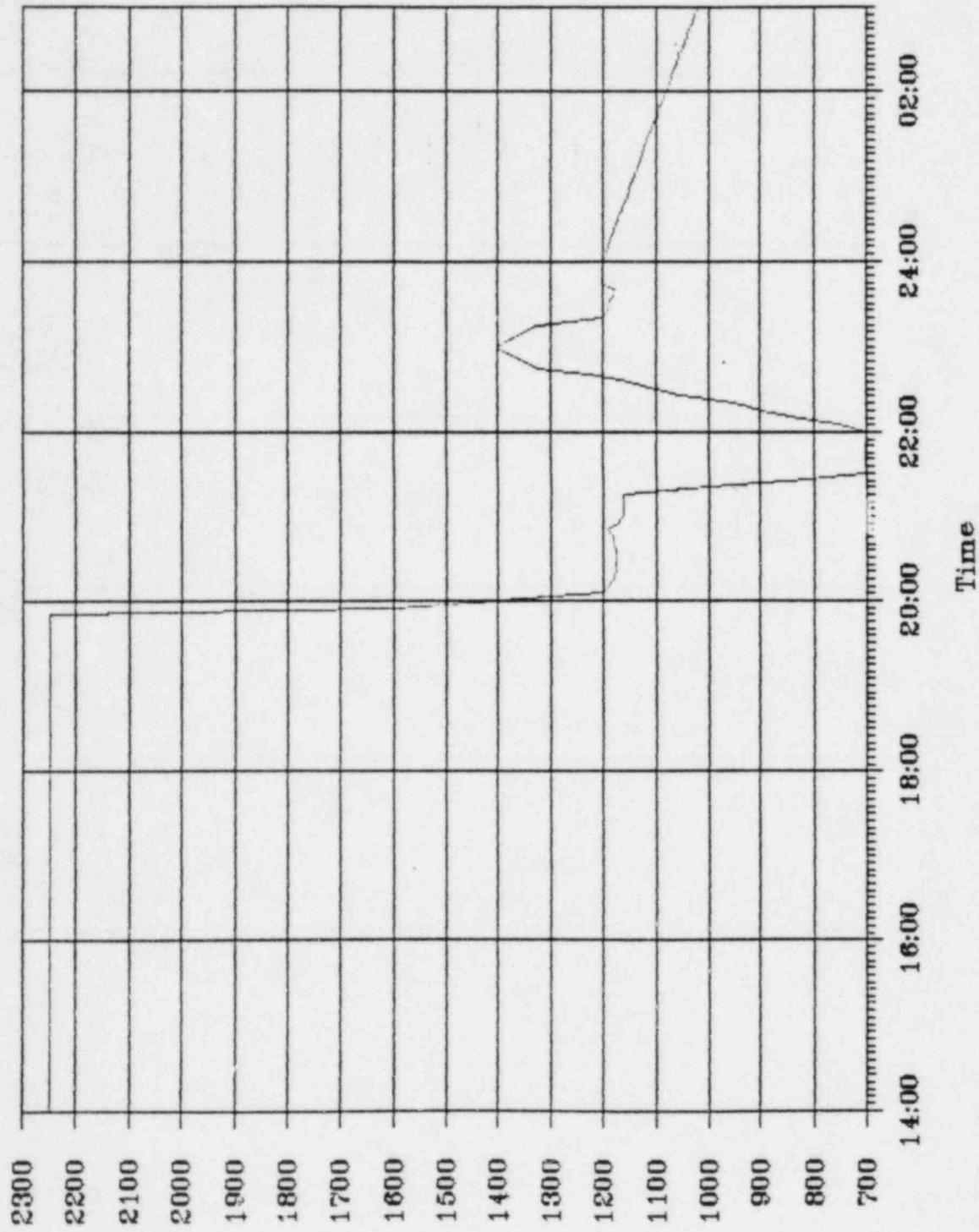


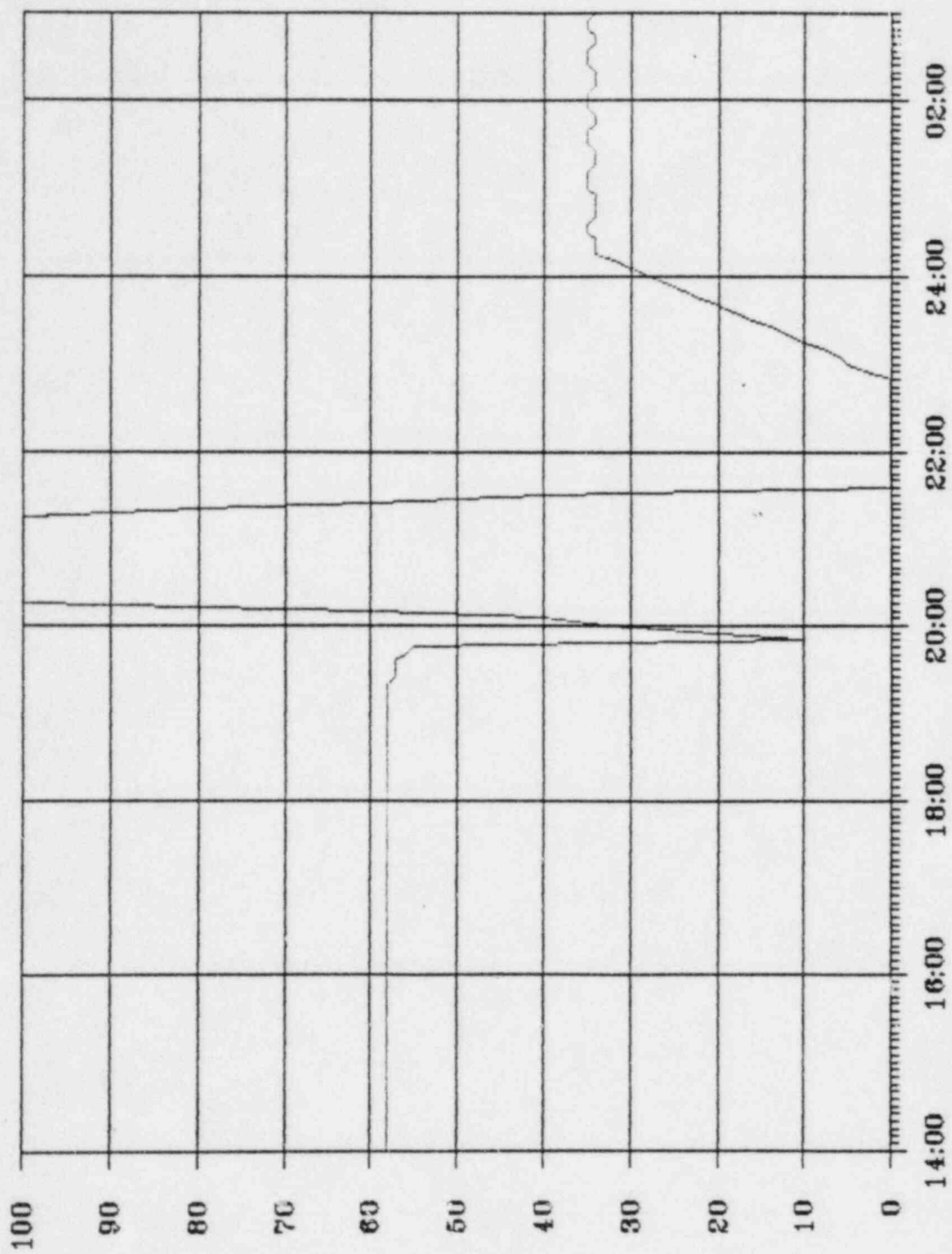
— T hot



— T cold

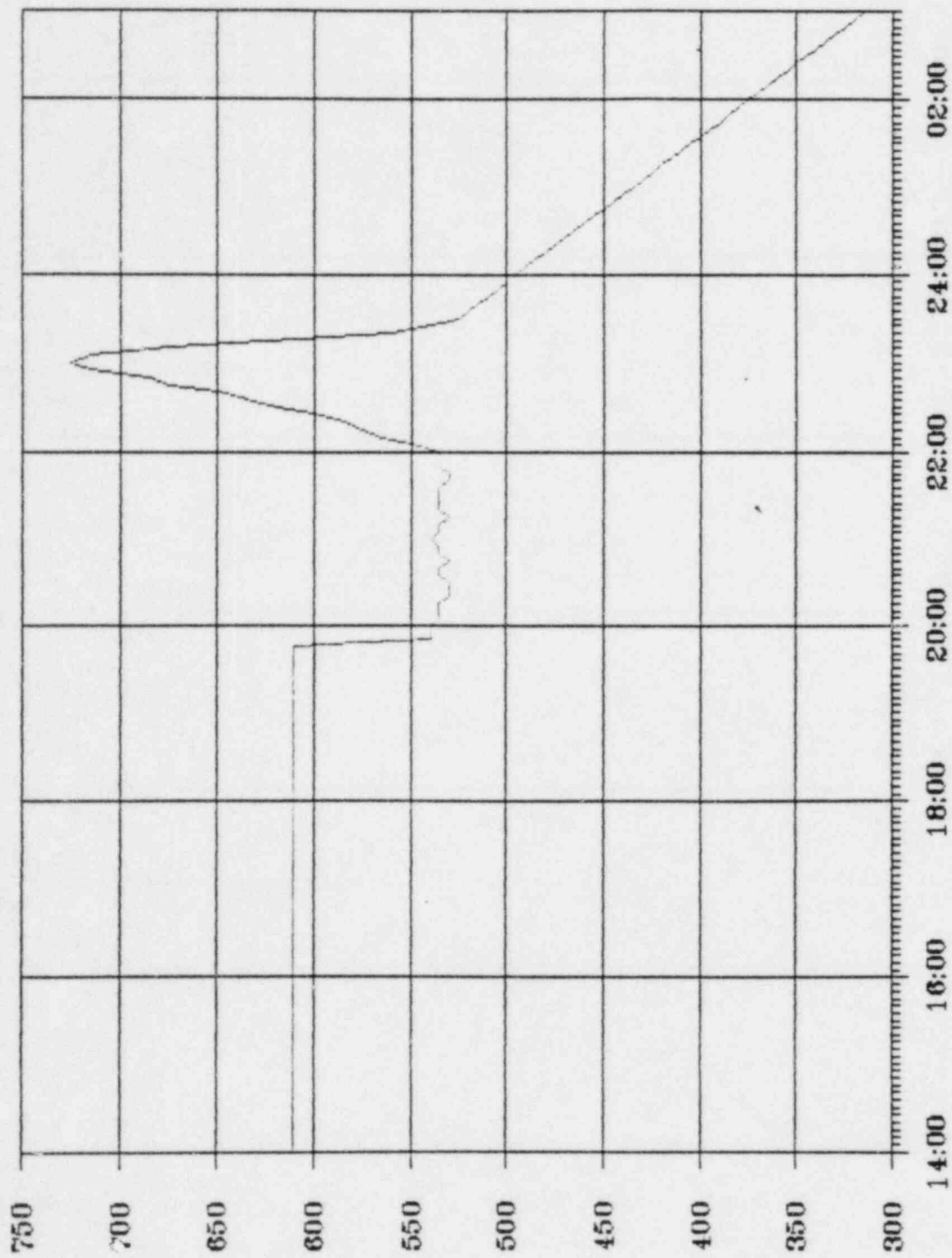
PRESSURIZER PRESSURE





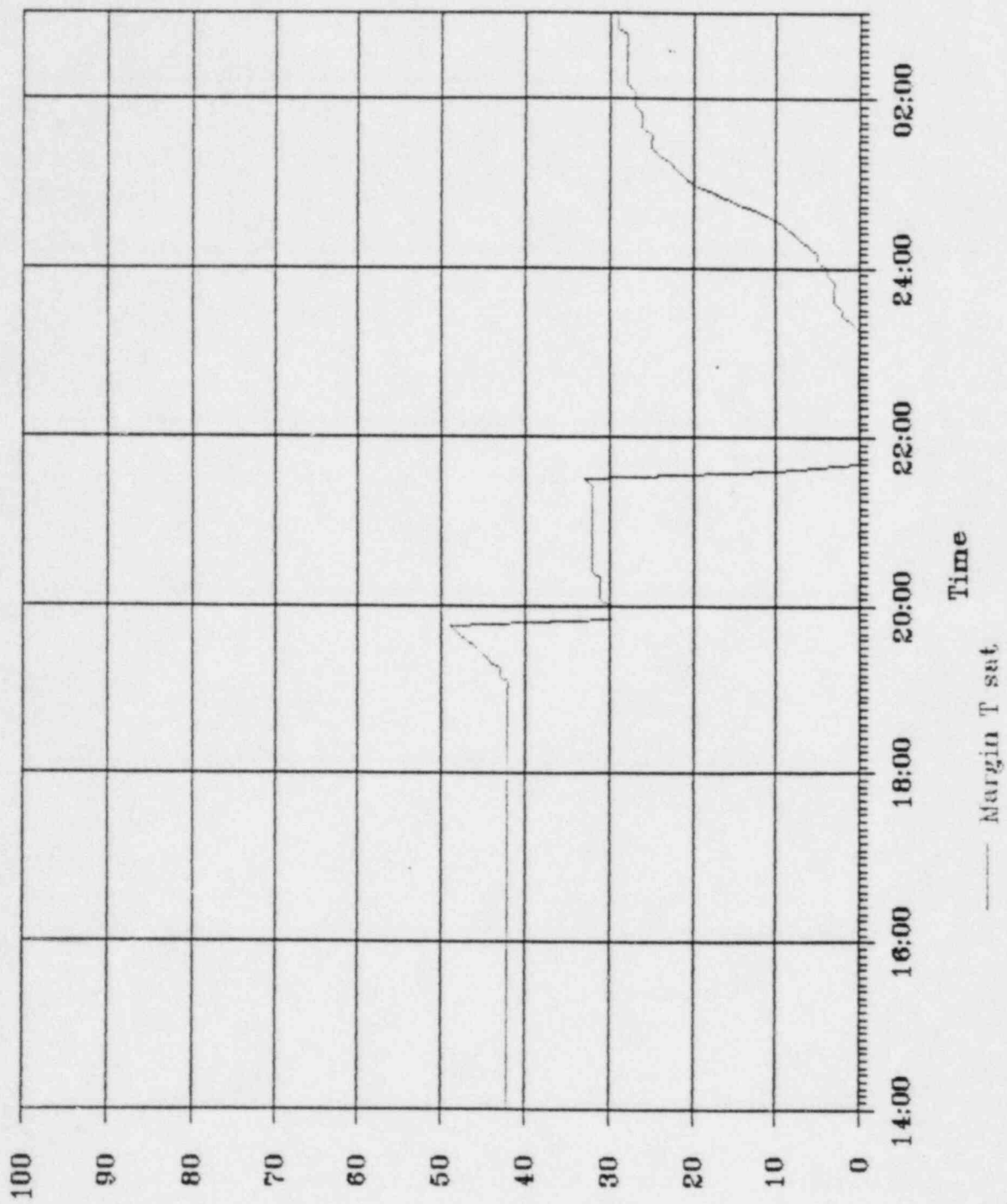
—— Pressurizer Level

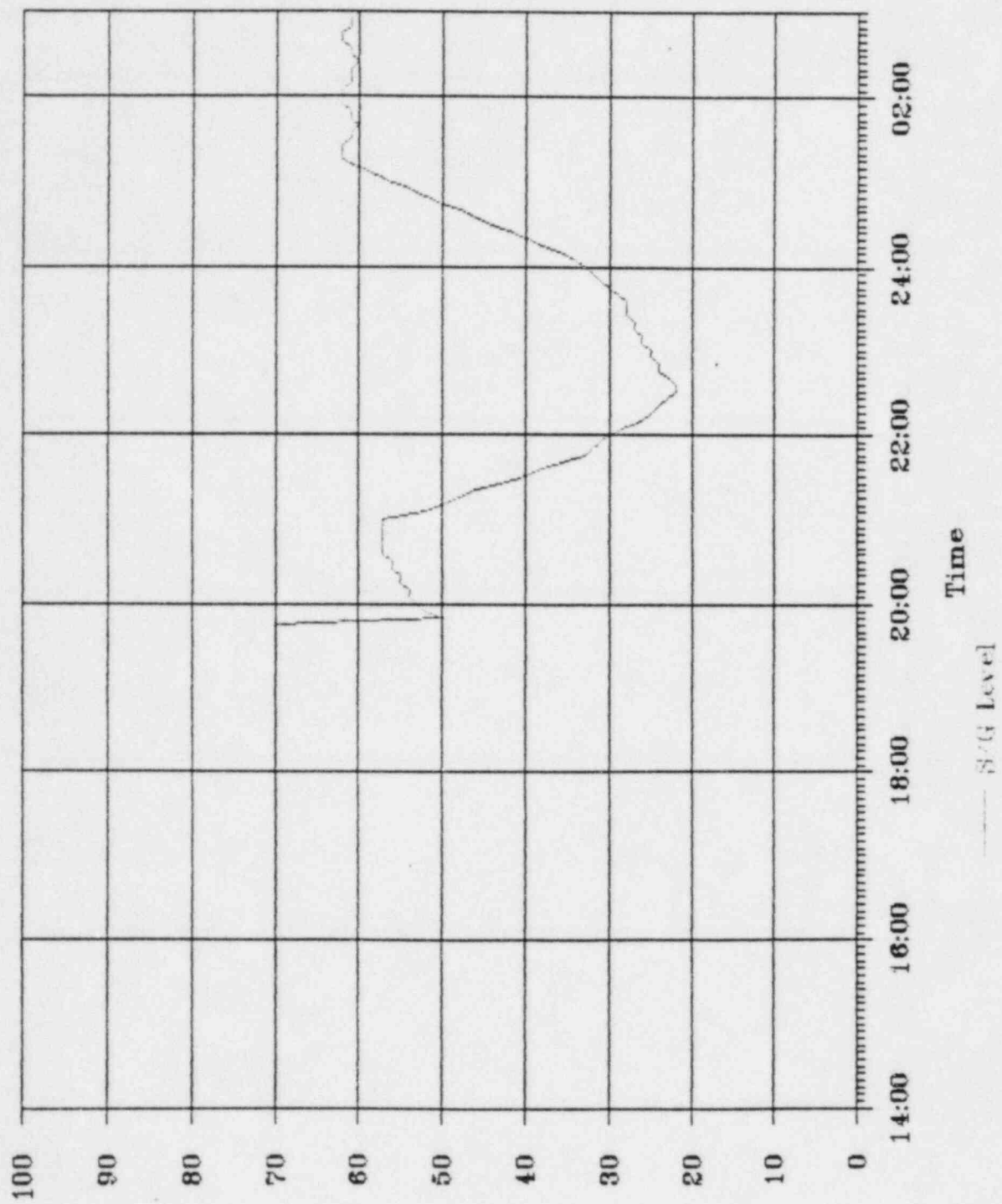
Temperature

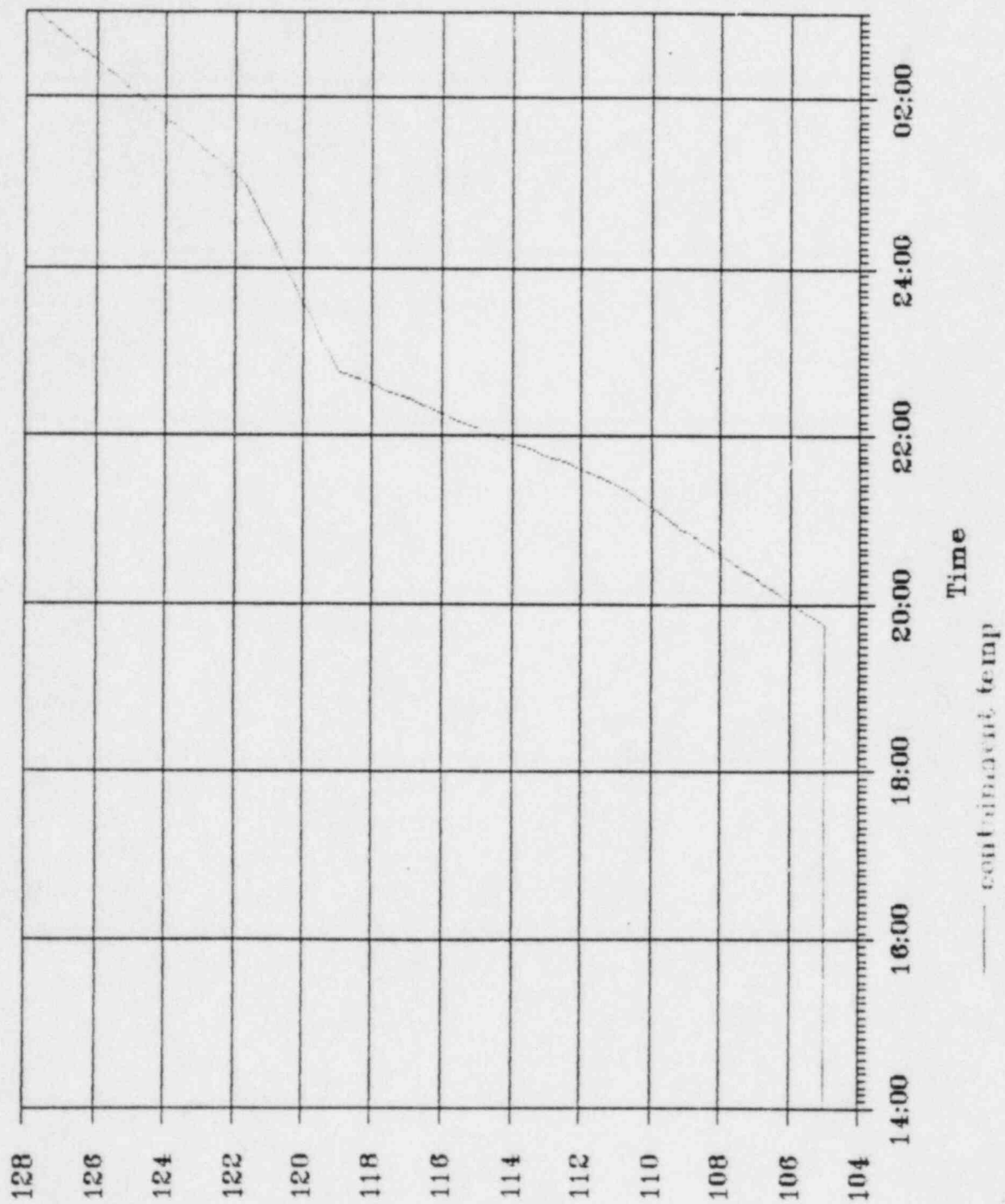


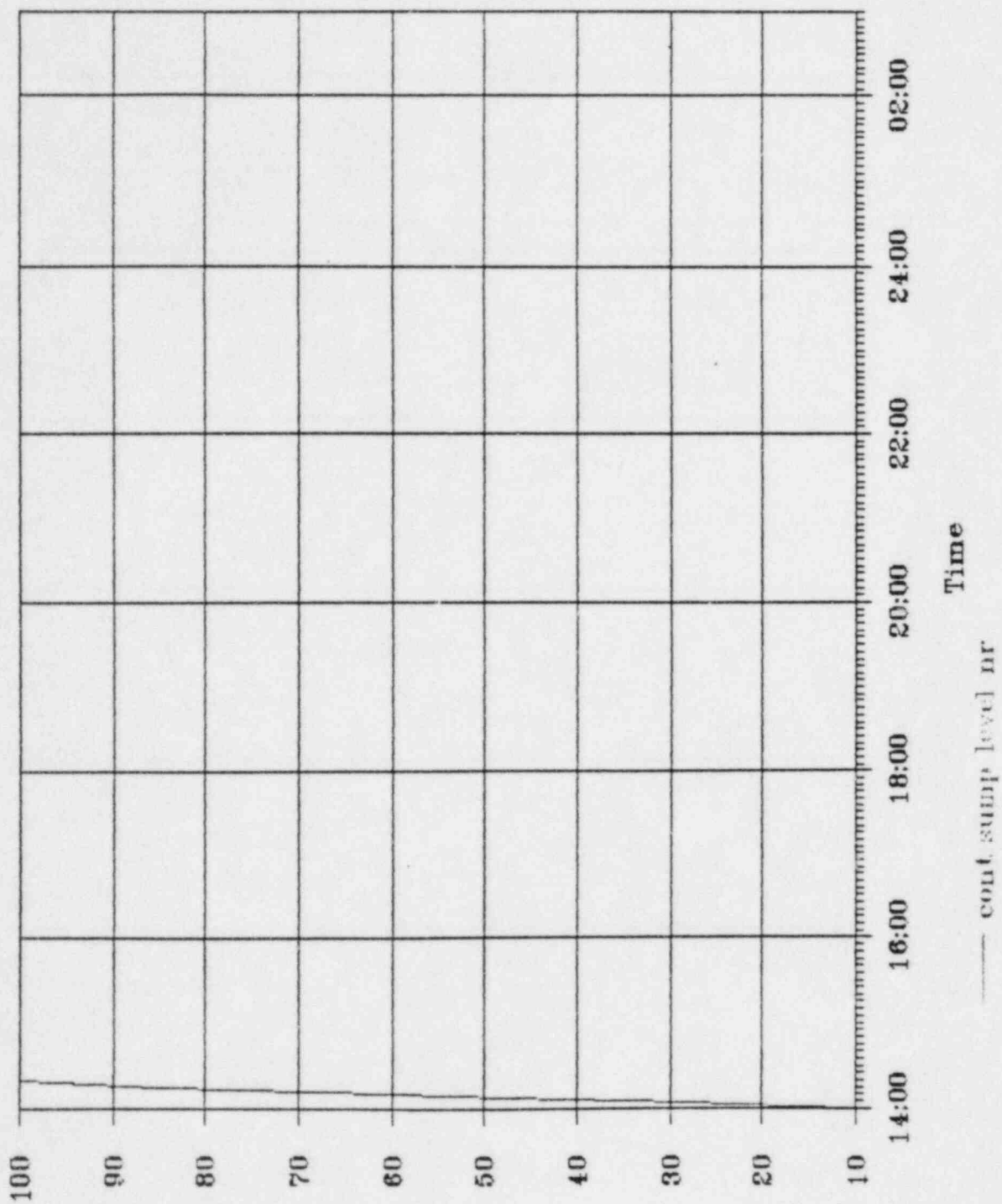
Time

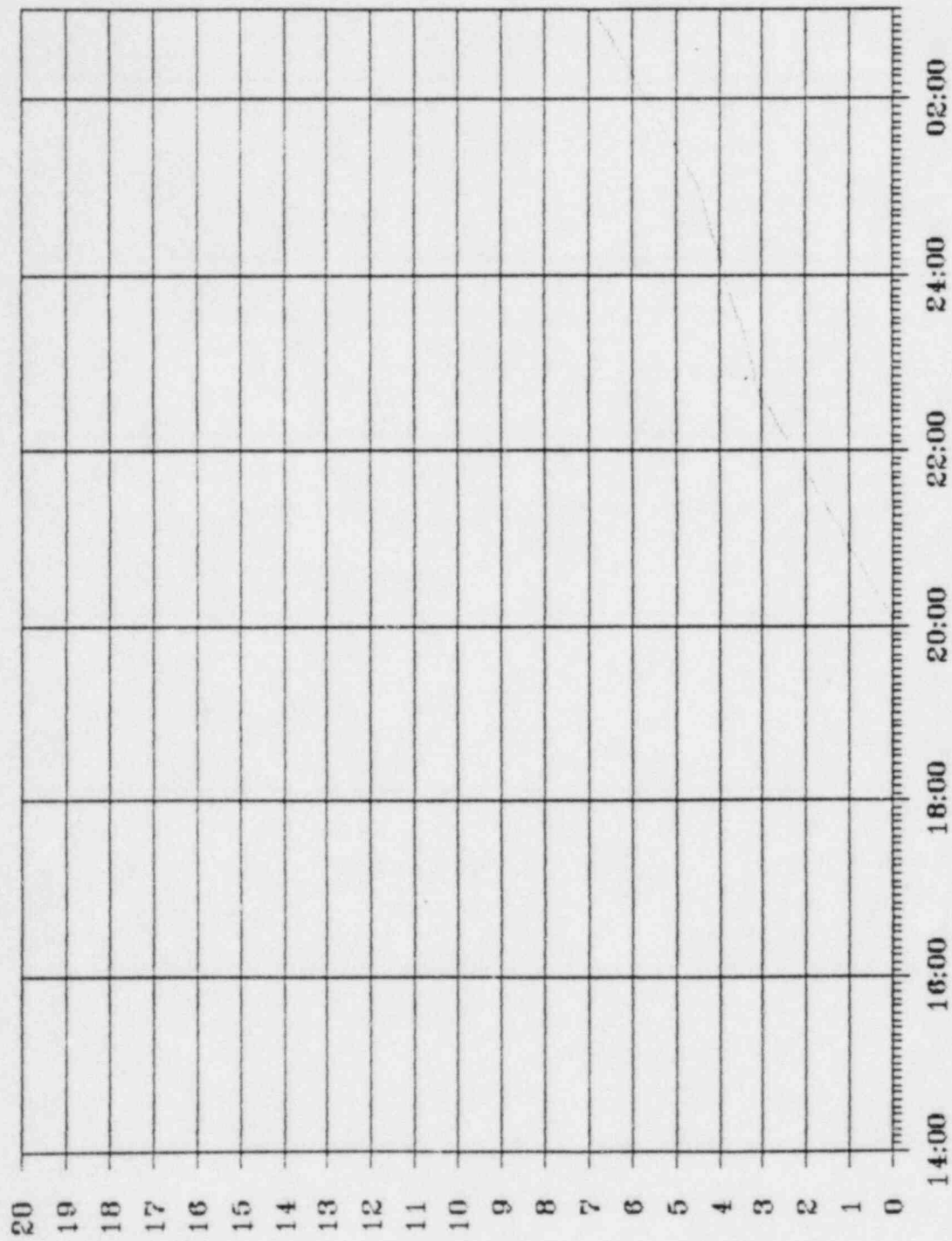
— Incore NR

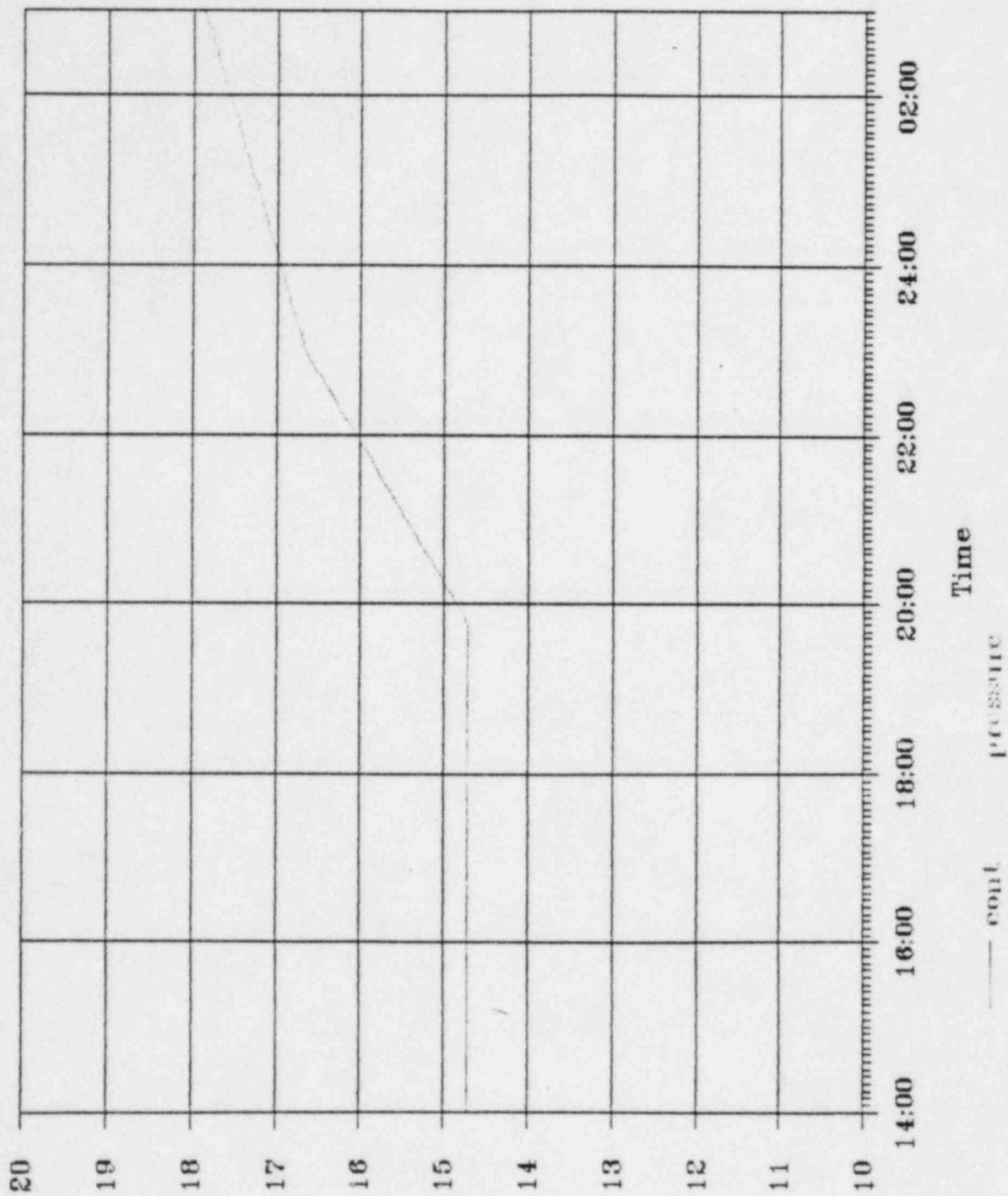












Scenario 85

TIME	PZR level	CONT FUMP L	CONT PRESS	CONT TEMP	SUMP L NR
14:00	58	0	14.7	105	10
14:05	58	0	14.7	105	35
14:10	58	0	14.7	105	60
14:15	58	0	14.7	105	85
14:20	58	0	14.7	105	100
14:25	58	0	14.7	105	100
14:30	58	0	14.7	105	100
14:35	58	0	14.7	105	100
14:40	58	0	14.7	105	100
14:45	58	0	14.7	105	100
14:50	58	0	14.7	105	100
14:55	58	0	14.7	105	100
15:00	58	0	14.7	105	100
15:05	58	0	14.7	105	100
15:10	58	0	14.7	105	100
15:15	58	0	14.7	105	100
15:20	58	0	14.7	105	100
15:25	58	0	14.7	105	100
15:30	58	0	14.7	105	100
15:35	58	0	14.7	105	100
15:40	58	0	14.7	105	100
15:45	58	0	14.7	105	100
15:50	58	0	14.7	105	100
15:55	58	0	14.7	105	100
16:00	58	0	14.7	105	100
16:05	58	0	14.7	105	100
16:10	58	0	14.7	105	100
16:15	58	0	14.7	105	100
16:20	58	0	14.7	105	100
16:25	58	0	14.7	105	100
16:30	58	0	14.7	105	100
16:35	58	0	14.7	105	100
16:40	58	0	14.7	105	100
16:45	58	0	14.7	105	100
16:50	58	0	14.7	105	100
16:55	58	0	14.7	105	100
17:00	58	0	14.7	105	100
17:05	58	0	14.7	105	100
17:10	58	0	14.7	105	100
17:15	58	0	14.7	105	100
17:20	58	0	14.7	105	100
17:25	58	0	14.7	105	100
17:30	58	0	14.7	105	100
17:35	58	0	14.7	105	100
17:40	58	0	14.7	105	100
17:45	58	0	14.7	105	100
17:50	58	0	14.7	105	100
17:55	58	0	14.7	105	100
18:00	58	0	14.7	105	100
18:05	58	0	14.7	105	100
18:10	58	0	14.7	105	100
18:15	58	0	14.7	105	100
18:20	58	0	14.7	105	100
18:25	58	0	14.7	105	100
18:30	58	0	14.7	105	100

Scenerio 85

TIME	PZR level	CONT SUMP L	CONT PRESS	CONT TEMP	SUMP L NR
18:35	58	0	14.7	105	100
18:40	58	0	14.7	105	100
18:45	58	0	14.7	105	100
18:50	58	0	14.7	105	100
18:55	58	0	14.7	105	100
19:00	58	0	14.7	105	100
19:05	58	0	14.7	105	100
19:10	58	0	14.7	105	100
19:15	58	0	14.7	105	100
19:20	58	0	14.7	105	100
19:25	57	0	14.7	105	100
19:30	57	0	14.7	105	100
19:35	57	0	14.7	105	100
19:40	56	0	14.7	105	100
19:45	55	0	14.7	105	100
19:50	10	0	14.75	105.3	100
19:55	20	0	14.8	105.6	100
20:00	33	0	14.85	105.9	100
20:05	40	0	14.9	106.2	100
20:10	60	0.1	14.95	106.5	100
20:15	100	0.2	15	106.8	100
20:20	100	0.3	15.05	107.1	100
20:25	100	0.4	15.1	107.4	100
20:30	100	0.5	15.15	107.7	100
20:35	100	0.6	15.2	108	100
20:40	100	0.7	15.25	108.3	100
20:45	100	0.8	15.3	108.6	100
20:50	100	0.9	15.35	108.9	100
20:55	100	1	15.4	109.2	100
21:00	100	1.1	15.45	109.5	100
21:05	100	1.2	15.5	109.8	100
21:10	100	1.3	15.55	110.1	100
21:15	100	1.4	15.6	110.4	100
21:20	80	1.5	15.65	110.7	100
21:25	60	1.6	15.7	111	100
21:30	40	1.7	15.75	111.5	100
21:35	0	1.8	15.8	112	100
21:40	0	1.9	15.85	112.5	100
21:45	0	2	15.9	113	100
21:50	0	2.1	15.95	113.5	100
21:55	0	2.2	16	114	100
22:00	0	2.3	16.05	114.5	100
22:05	0	2.4	16.1	115	100
22:10	0	2.5	16.15	115.5	100
22:15	0	2.6	16.2	116	100
22:20	0	2.7	16.25	116.5	100
22:25	0	2.8	16.3	117	100
22:30	0	2.9	16.35	117.5	100
22:35	0	3	16.4	118	100
22:40	0	3.05	16.45	118.5	100
22:45	0	3.1	16.5	119	100
22:50	0	3.15	16.55	119.1	100
22:55	3	3.2	16.6	119.2	100
23:00	5	3.25	16.65	119.3	100
23:05	6	3.3	16.675	119.4	100

Scenario 85

TIME	PZR level	CONT SUMP L	CONT PRESS	CONT TEMP	SUMP L NR
23:10	8	3.35	16.7	119.5	100
23:15	10	3.4	16.725	119.6	100
23:20	12	3.45	16.75	119.7	100
23:25	14	3.5	16.775	119.8	100
23:30	16	3.55	16.8	119.9	100
23:35	18	3.6	16.825	120	100
23:40	20	3.65	16.85	120.1	100
23:45	22	3.7	16.875	120.2	100
23:50	24	3.75	16.9	120.3	100
23:55	26	3.8	16.925	120.4	100
24:00	28	3.85	16.95	120.5	100
00:05	30	3.9	16.975	120.6	100
00:10	32	3.95	17	120.7	100
00:15	34	4	17.025	120.8	100
00:20	34	4.05	17.05	120.9	100
00:25	34	4.1	17.075	121	100
00:30	35	4.15	17.1	121.1	100
00:35	35	4.2	17.125	121.2	100
00:40	34	4.25	17.15	121.3	100
00:45	34	4.3	17.175	121.4	100
00:50	34	4.35	17.2	121.5	100
00:55	34	4.4	17.225	121.6	100
01:00	35	4.45	17.25	121.7	100
01:05	35	4.55	17.275	121.95	100
01:10	35	4.65	17.3	122.2	100
01:15	34	4.75	17.325	122.45	100
01:20	34	4.85	17.35	122.7	100
01:25	34	4.95	17.375	122.95	100
01:30	35	5.05	17.4	123.2	100
01:35	35	5.15	17.425	123.45	100
01:40	35	5.25	17.45	123.7	100
01:45	34	5.35	17.475	123.95	100
01:50	34	5.45	17.5	124.2	100
01:55	35	5.55	17.525	124.45	100
02:00	35	5.65	17.55	124.7	100
02:05	35	5.75	17.575	124.95	100
02:10	34	5.85	17.6	125.2	100
02:15	34	5.95	17.625	125.45	100
02:20	34	6.05	17.65	125.7	100
02:25	35	6.15	17.675	125.95	100
02:30	35	6.25	17.7	126.2	100
02:35	35	6.35	17.725	126.45	100
02:40	34	6.45	17.75	126.7	100
02:45	34	6.55	17.775	126.95	100
02:50	35	6.65	17.8	127.2	100
02:55	35	6.75	17.825	127.45	100
03:00	34	6.85	17.85	127.7	100

TIME	PZR PRESS	INCORE NR	T cold	S/G LEVEL W	T hot	Margin Tsat
14:00	2250	610	550	70	602	42
14:05	2250	610	550	70	602	42
14:10	2250	610	550	70	602	42
14:15	2250	610	550	70	602	42
14:20	2250	610	550	70	602	42
14:25	2250	610	550	70	602	42
14:30	2250	610	550	70	602	42
14:35	2250	610	550	70	602	42
14:40	2250	610	550	70	602	42
14:45	2250	610	550	70	602	42
14:50	2250	610	550	70	602	42
14:55	2250	610	550	70	602	42
15:00	2250	610	550	70	602	42
15:05	2250	610	550	70	602	42
15:10	2250	610	550	70	602	42
15:15	2250	610	550	70	602	42
15:20	2250	610	550	70	602	42
15:25	2250	610	550	70	602	42
15:30	2250	610	550	70	602	42
15:35	2250	610	550	70	602	42
15:40	2250	610	550	70	602	42
15:45	2250	610	550	70	602	42
15:50	2250	610	550	70	602	42
15:55	2250	610	550	70	602	42
16:00	2250	610	550	70	602	42
16:05	2250	610	550	70	602	42
16:10	2250	610	550	70	602	42
16:15	2250	610	550	70	602	42
16:20	2250	610	550	70	602	42
16:25	2250	610	550	70	602	42
16:30	2250	610	550	70	602	42
16:35	2250	610	550	70	602	42
16:40	2250	610	550	70	602	42
16:45	2250	610	550	70	602	42
16:50	2250	610	550	70	602	42
16:55	2250	610	550	70	602	42
17:00	2250	610	550	70	602	42
17:05	2250	610	550	70	602	42
17:10	2250	610	550	70	602	42
17:15	2250	610	550	70	602	42
17:20	2250	610	550	70	602	42
17:25	2250	610	550	70	602	42
17:30	2250	610	550	70	602	42
17:35	2250	610	550	70	602	42
17:40	2250	610	550	70	602	42
17:45	2250	610	550	70	602	42
17:50	2250	610	550	70	602	42
17:55	2250	610	550	70	602	42
18:00	2250	610	550	70	602	42
18:05	2250	610	550	70	602	42
18:10	2250	610	550	70	602	42
18:15	2250	610	550	70	602	42
18:20	2250	610	550	70	602	42
18:25	2250	610	550	70	602	42
18:30	2250	610	550	70	602	42

Tc.

TIME	PZR PRESS	INCORE NR	T cold	S/G LEVEL W	T hot	Margin Tsat
18:35	2250	610	550	70	602	42
18:40	2250	610	550	70	602	42
18:45	2250	610	550	70	602	42
18:50	2250	610	550	70	602	42
18:55	2250	610	550	70	602	42
19:00	2250	610	550	70	602	42
19:05	2250	610	550	70	602	42
19:10	2250	610	550	70	602	43
19:15	2250	610	550	70	602	43
19:20	2250	610	550	70	602	44
19:25	2250	610	550	70	602	45
19:30	2250	610	550	70	602	46
19:35	2250	610	550	70	602	47
19:40	2250	610	550	70	601	48
19:45	2250	610	550	70	601	49
19:50	2250	540	547	50	550	30
19:55	1600	540	545	52	548	30
20:00	1400	540	543	53	546	30
20:05	1200	535	543	54	546	31
20:10	1190	535	543	54	546	31
20:15	1180	535	543	55	546	31
20:20	1175	530	543	55	546	31
20:25	1175	530	543	56	546	32
20:30	1175	530	543	56	546	32
20:35	1175	535	543	57	546	32
20:40	1180	535	543	57	546	32
20:45	1180	530	543	57	546	32
20:50	1190	535	543	57	546	32
20:55	1170	535	543	57	546	32
21:00	1160	540	543	57	546	32
21:05	1160	535	543	52	546	32
21:10	1160	535	543	50	546	32
21:15	1160	530	543	48	546	32
21:20	1000	535	543	46	546	32
21:25	850	535	543	43	546	32
21:30	700	535	543	40	546	33
21:35	700	535	543	38	546	10
21:40	700	530	543	35	546	0
21:45	700	530	543	33	546	0
21:50	700	535	543	32	546	0
21:55	700	535	543	31	546	0
22:00	700	535	543	30	546	0
22:05	750	550	545	28	548	0
22:10	825	565	548	26	551	0
22:15	900	575	553	25	556	0
22:20	950	585	560	24	563	0
22:25	1050	600	570	23	573	0
22:30	1100	620	575	22	578	0
22:35	1150	635	580	22	583	0
22:40	1225	650	600	23	603	0
22:45	1325	675	615	24	618	0
22:50	1350	685	625	24	628	0
22:55	1380	715	625	25	650	0
23:00	1400	725	625	25	675	0
23:05	1380	715	625	26	672	0

Scenario 85

TIME	PZR PRESS	INCORE NR	T cold	S/G LEVEL W	T hot	Margin Tsat
23:10	1350	675	580	26	620	0
23:15	1325	625	560	27	565	0
23:20	1200	560	558	27	563	1
23:25	1190	540	557	28	562	2
23:30	1190	525	556	28	561	2
23:35	1180	520	555	28	560	3
23:40	1180	515	554	29	559	3
23:45	1200	510	553	30	558	3
23:50	1200	505	552	31	557	3
23:55	1200	500	551	32	556	4
24:00	1200	495	550	33	555	4
00:05	1195	490	549	34	554	5
00:10	1190	485	548	36	553	5
00:15	1185	480	547	38	552	6
00:20	1180	475	546	40	551	7
00:25	1175	470	545	42	550	8
00:30	1170	465	544	44	549	9
00:35	1165	460	543	46	548	10
00:40	1160	455	542	48	547	12
00:45	1155	450	541	50	546	14
00:50	1150	445	540	52	545	16
00:55	1145	440	539	54	544	18
01:00	1140	435	538	56	543	20
01:05	1135	430	537	58	542	21
01:10	1130	425	536	60	541	22
01:15	1125	420	535	62	540	23
01:20	1120	415	534	62	539	24
01:25	1115	410	533	62	538	25
01:30	1110	405	532	61	537	25
01:35	1105	400	531	61	536	25
01:40	1100	395	530	60	535	26
01:45	1095	390	529	61	534	26
01:50	1090	385	528	61	533	26
01:55	1085	380	527	62	532	27
02:00	1080	375	526	62	531	27
02:05	1075	370	525	62	530	27
02:10	1070	365	524	61	529	28
02:15	1065	360	523	61	528	28
02:20	1060	355	522	61	527	28
02:25	1055	350	521	60	526	28
02:30	1050	345	520	61	525	28
02:35	1045	340	519	61	524	28
02:40	1040	335	518	62	523	28
02:45	1035	330	517	62	522	28
02:50	1030	325	516	61	521	29
02:55	1025	320	515	61	520	29
03:00	1020	315	514	60	519	29

APPENDIX B
IN-PLANT
RADIOLOGICAL DATA

IN-PLANT RADIATION DATA

- All data is assumed to be net data after accounting for background.
- Areas for which data is not given or available shall be assumed to have radiation levels equal to actual measured values at that time.
- This Appendix consists of the following:

Attachment 1 - Whole Body Dose Rates

Attachment 2 - Whole Body Dose Rates (Zone 4)

Attachment 3 - Whole Body Dose Rates (PASS Building)

Attachment 4 - Area Radiation Monitors

Attachment 5 - Air Sample Data

Attachment 6 - Zone Maps

ATTACHMENT 1

WHOLE BODY DOSE RATES (R/hr)

ABOVE ACTUAL BACKGROUND

TIME	ZONE 1	ZONE 2	ZONE 3	SEE ATT. 2 ZONE 4	ZONE 5	TURBINE AND ADMIN. BUILDING
2330 - 2240	As Read	As Read	As Read		BKG	BKG
2240 - 2250	> 1000	11	As Read		BKG	BKG
2250 - 2300	> 1000	62	.035		BKG	BKG
2300 - 2310	> 1000	120	.065		BKG	BKG
2310 - 2320	> 1000	190	.090		BKG	BKG
2320 - 2330	> 1000	270	.120		BKG	BKG
2330 - 2340	> 1000	335	.140		BKG	BKG
2340 - 2350	> 1000	410	.165		BKG	BKG
2350 - 2400	> 1000	478	.185		BKG	BKG
0000 - 0010	> 1000	554	.200		BKG	BKG
0010 - 0020	> 1000	630	.215		BKG	BKG
0020 - 0030	> 1000	700	.230		BKG	BKG
0030 - 0040	> 1000	770	.245		BKG	BKG
0040 - 0050	> 1000	834	.250		BKG	BKG
0050 - 0100	> 1000	920	.260		BKG	BKG
0100 - 0110	> 1000	1000	.270		BKG	BKG
0110 - 0120	> 1000	>1000	.275		BKG	BKG
0120 - 0130	> 1000	920	.240		BKG	BKG
0130 - 0140	> 1000	860	.200		BKG	BKG
0140 - 0150	> 1000	820	.165		BKG	BKG
0150 - 0200	> 1000	790	.125		BKG	BKG
0200 - 0210	> 1000	770	.100		BKG	BKG
0210 - 0220	> 1000	760	.080		BKG	BKG
0220 - 0230	> 1000	750	.050		BKG	BKG
0230 - 0240	> 1000	740	.040		BKG	BKG

ATTACHMENT 2

ZONE 4

- Data listed below applies to Zone 4 on the 335' elevation while PASS sampling is in progress.
- T = 0 represents the sampling start time.
- Sampling is expected to be concluded within three hours.

<u>Time (Minutes)</u>	<u>Dose Rates (R/hr)</u>
T = 0	.040
T = 10	.120
T = 20	.600
T = 30	1.0
T = 40	1.5
T = 50	2.0
T = 60	2.25
T = 70	2.5
T = 80	2.8
T = 90	3.0
T = 100	3.2
T = 110	3.3
T = 120	3.5
T = 130	3.5
T = 140	3.6
T = 150	3.6
T = 160	3.6
T = 170	3.6
T = 180	3.8

ATTACHMENT 3

PASS Building

- Data listed below applies to the PASS Building while sampling is in progress.
- T = 0 represents the sampling start time.
- Sampling is expected to be concluded within 3 hours. When sampling is terminated, all readings will revert to their "as read" status.

<u>Time (minutes)</u>	<u>Zone A (R/hr)</u>	<u>Zone B (R/hr)</u>
T = 0	1.7	.002
T = 10	8.2	.010
T = 20	26.4	.030
T = 30	135	.125
T = 40	245	.230
T = 50	350	.350
T = 60	435	.420
T = 70	500	.500
T = 80	575	.570
T = 90	630	.625
T = 100	675	.675
T = 120	710	.710
T = 130	770	.760
T = 140	790	.800
T = 150	815	.820
T = 160	820	.820
T = 170	830	.830
T = 180	840	.840
T = 190	850	.850

ATTACHMENT 4

Page 1 of 2

Reactor Building Area Monitors

<u>Time</u>	<u>Monitor Readings (R/hr)</u>
1410	0.3
1420	0.6
1430	0.9
1440	1.2
1450	1.5
1500	1.8
1510	2.1
1520	2.4
1530	2.7
1540	2.9
1550	3.2
1600	3.5
1610	3.7
1620	4.0
1630	4.2
1640	4.5
1650	4.7
1700	5.0
1710	5.2
1720	5.4
1730	5.7
1740	5.9
1750	6.1
1800	6.3
1810	6.5
1820	6.7
1830	7.0
1840	7.2
1850	7.4
1900	7.6
1910	7.7
1920	8.0
1930	8.1
1940	9.9
1950	10.1
2000	10.3
2010	10.5
2020	10.7
2030	10.9
2040	11.1
2050	11.3
2100	11.5
2110	11.7
2120	11.9
2130	12.1
2140	12.3
2150	4735
2200 - 0230	>10,000

ATTACHMENT 4

Page 2 of 2

AREA RADIATION MONITORS

<u>Number</u>	<u>Detector Location</u>	<u>*Zone for Corresponding Detector Data with Time</u>
2RITS-8900	Stairway Vestibule Area, Elev. 317'	2
2RITS-8901	Stairway Vestibule Area, Elev. 335'	3
2RITS-8902	Controlled Areaway, Elev. 335'	3
2RITS-8903	Controlled Areaway, Elev. 354'	5
2RITS-8904	Radwaste Tanks Access Area, Elev. 354'	5
2RITS-8906	Stairway Vestibule Area, Elev. 372'	5
2RITS-8907	Controlled Areaway, Elev. 372'	5
2RITS-8908	SRW Shipping Area, Elev. 335'	5
2RITS-8910	Stairway Vestibule Area, Elev. 386'	5
2RITS-8911	Health Physics Room Area, Elev. 386'	5
2RITS-8913	Protective Panel 2C15 Area, Elev. 404'	Out of Service
2RITS-8914	Cask Washdown Area, Elev. 404'	5
2RITS-8915	New Fuel Storage Area, Elev. 404'	5
2RITS-8916	Spent Fuel Pool Area, Elev. 404'	5
2RITS-8917	Sample Room Area, Elev. 354'	5
2RITS-8918	Hot Machine Shop Areaway, Elev. 354'	5
2RITS-8919	SSRW Cask Proximity, Area Elev. 335'	Out of Service
2RITS-8920	SRW Cask Surface Area, Elev. 335'	Out of Service
2RITS-8922	Hot Machine Shop Area, Elev. 354'	5
2RITS-8924	Regen. Waste Areaway Elev. 354'	5

*Use Attachment 1 to obtain detector data.

ATTACHMENT 5

AIR SAMPLE DATA

- All in-plant air sample results will be as read with the exception of elevation 317'.
- Airborne activity for elevation 317' is provided in this attachment. It is not anticipated, however, that a survey team would be dispatched to that area in view of the extremely high dose rates that would be encountered.

Scenario 85

Aux Air 317'

(uCi/cc)

TIME	AUX AIR Kr-85m	Kr-85	Kr-87	Kr-88	Xe-131m	Xe-133m	Xe-133	Xe-135
14:00								
14:10								
14:20								
14:30								
14:40								
14:50								
15:00								
15:10								
15:20								
15:30								
15:40								
15:50								
16:00								
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21:10								
21:20								
21:30								
21:40								
21:50								
22:00								
22:10								
22:20								
22:30								
22:40	3.264E-02	1.668E-02	8.274E-03	5.181E-02	2.338E-03	1.639E-02	7.071E-01	8.817E-01

AUX AIR

IME	Kr-85m	Kr-85	Kr-87	Kr-88	Xe-131m	Xe-133m	Xe-133	Xe-135
22:50	6.979E-02	1.554E-01	7.036E-02	4.632E-01	2.178E-02	1.527E-01	6.595E+00	8.132E+00
23:00	1.081E-01	2.980E-01	1.232E-01	8.526E-01	4.178E-02	2.927E-01	1.266E+01	1.543E+01
23:10	1.454E-01	4.398E-01	1.660E-01	1.207E+00	6.165E-02	4.318E-01	1.869E+01	2.254E+01
23:20	1.805E-01	5.775E-01	1.989E-01	1.521E+00	8.094E-02	5.668E-01	2.456E+01	2.929E+01
23:30	2.126E-01	7.092E-01	2.230E-01	1.793E+00	9.940E-02	6.958E-01	3.019E+01	3.560E+01
23:40	2.414E-01	8.337E-01	2.393E-01	2.022E+00	1.168E-01	8.178E-01	3.552E+01	4.143E+01
23:50	2.668E-01	9.504E-01	2.490E-01	2.212E+00	1.332E-01	9.321E-01	4.054E+01	4.675E+01
24:00	2.889E-01	1.059E+00	2.533E-01	2.366E+00	1.484E-01	1.039E+00	4.522E+01	5.158E+01
00:10	3.077E-01	1.160E+00	2.533E-01	2.486E+00	1.626E-01	1.138E+00	4.958E+01	5.593E+01
00:20	3.236E-01	1.253E+00	2.498E-01	2.578E+00	1.757E-01	1.229E+00	5.363E+01	5.983E+01
00:30	3.367E-01	1.339E+00	2.437E-01	2.643E+00	1.877E-01	1.313E+00	5.737E+01	6.330E+01
00:40	3.473E-01	1.419E+00	2.356E-01	2.686E+00	1.988E-01	1.391E+00	6.082E+01	6.637E+01
00:50	3.557E-01	1.491E+00	2.260E-01	2.710E+00	2.090E-01	1.462E+00	6.400E+01	6.907E+01
01:00	3.621E-01	1.558E+00	2.156E-01	2.716E+00	2.183E-01	1.527E+00	6.693E+01	7.144E+01
01:10	3.666E-01	1.619E+00	2.045E-01	2.708E+00	2.268E-01	1.587E+00	6.963E+01	7.350E+01
01:20	2.626E-01	1.190E+00	1.372E-01	1.910E+00	1.666E-01	1.163E+00	5.112E+01	5.333E+01
01:30	1.881E-01	8.741E-01	9.201E-02	1.347E+00	1.224E-01	8.532E-01	3.753E+01	3.870E+01
01:40	1.347E-01	6.424E-01	6.172E-02	9.497E-01	8.991E-02	6.256E-01	2.756E+01	2.809E+01
01:50	9.649E-02	4.721E-01	4.140E-02	6.697E-01	6.604E-02	4.588E-01	2.023E+01	2.038E+01
02:00	6.911E-02	3.469E-01	2.777E-02	4.722E-01	4.851E-02	3.364E-01	1.485E+01	1.479E+01
02:10	4.950E-02	2.549E-01	1.863E-02	3.330E-01	3.564E-02	2.467E-01	1.091E+01	1.073E+01
02:20	3.545E-02	1.873E-01	1.250E-02	2.348E-01	2.618E-02	1.809E-01	8.007E+00	7.788E+00
02:30	2.539E-02	1.377E-01	8.384E-03	1.656E-01	1.923E-02	1.327E-01	5.879E+00	5.651E+00
02:40	1.819E-02	1.012E-01	5.624E-03	1.168E-01	1.413E-02	9.728E-02	4.316E+00	4.101E+00
02:50	1.303E-02	7.434E-02	3.772E-03	8.234E-02	1.038E-02	7.134E-02	3.169E+00	2.976E+00
03:00	9.330E-03	5.463E-02	2.531E-03	5.806E-02	7.622E-03	5.231E-02	2.327E+00	2.160E+00

Scenario 85

Aux Air 317'

(uCi/cc)

TIME	I-131	I-132	I-133	I-134	I-135	Rb-88	Cs-134	Cs-137	Cs-138
14:00									
14:10									
14:20									
14:30									
14:40									
14:50									
15:00									
15:10									
15:20									
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21:30									
21:40									
21:50									
22:00									
22:10									
22:20									
22:30									
22:40	3.961E-03	3.319E-03	6.803E-03	1.802E-04	3.556E-03	1.840E-05	4.949E-05	4.188E-05	1.483E-06

TIME	I-131	I-132	I-133	I-134	I-135	Rb-88	Cs-134	Cs-137	Cs-138
22:50	8.683E-03	6.922E-03	1.484E-02	3.468E-04	7.668E-03	2.874E-05	1.086E-04	9.187E-05	2.643E-06
23:00	1.379E-02	1.046E-02	2.346E-02	4.836E-04	1.198E-02	3.302E-05	1.725E-04	1.460E-04	3.413E-06
23:10	1.903E-02	1.372E-02	3.221E-02	5.857E-04	1.625E-02	3.344E-05	2.382E-04	2.016E-04	3.829E-06
23:20	2.422E-02	1.662E-02	4.079E-02	6.545E-04	2.034E-02	3.174E-05	3.034E-04	2.567E-04	3.962E-06
23:30	2.925E-02	1.909E-02	4.903E-02	6.941E-04	2.417E-02	2.904E-05	3.666E-04	3.102E-04	3.891E-06
23:40	3.405E-02	2.114E-02	5.680E-02	7.094E-04	2.767E-02	2.604E-05	4.271E-04	3.614E-04	3.684E-06
23:50	3.859E-02	2.279E-02	6.405E-02	7.058E-04	3.084E-02	2.311E-05	4.843E-04	4.098E-04	3.394E-06
24:00	4.284E-02	2.407E-02	7.076E-02	6.879E-04	3.367E-02	2.044E-05	5.379E-04	4.552E-04	3.063E-06
00:10	4.679E-02	2.500E-02	7.691E-02	6.596E-04	3.617E-02	1.807E-05	5.879E-04	4.975E-04	2.721E-06
00:20	5.046E-02	2.565E-02	8.252E-02	6.244E-04	3.836E-02	1.603E-05	6.343E-04	5.367E-04	2.385E-06
00:30	5.383E-02	2.603E-02	8.762E-02	5.849E-04	4.025E-02	1.427E-05	6.772E-04	5.730E-04	2.069E-06
00:40	5.694E-02	2.619E-02	9.223E-02	5.432E-04	4.187E-02	1.276E-05	7.167E-04	6.065E-04	1.780E-06
00:50	5.980E-02	2.616E-02	9.638E-02	5.008E-04	4.325E-02	1.146E-05	7.531E-04	6.372E-04	1.519E-06
01:00	6.241E-02	2.597E-02	1.001E-01	4.589E-04	4.439E-02	1.034E-05	7.864E-04	6.655E-04	1.289E-06
01:10	6.480E-02	2.565E-02	1.034E-01	4.183E-04	4.533E-02	9.363E-06	8.171E-04	6.914E-04	1.089E-06
01:20	6.759E-02	1.792E-02	7.559E-02	2.697E-04	3.274E-02	4.661E-06	6.004E-04	5.081E-04	6.500E-07
01:30	3.495E-02	1.252E-02	5.524E-02	1.739E-04	2.365E-02	2.321E-06	4.412E-04	3.734E-04	3.882E-07
01:40	2.567E-02	8.747E-03	4.037E-02	1.121E-04	1.708E-02	1.155E-06	3.242E-04	2.744E-04	2.318E-07
01:50	1.885E-02	6.111E-03	2.950E-02	7.230E-05	1.234E-02	5.751E-07	2.383E-04	2.016E-04	1.384E-07
02:00	1.385E-02	4.269E-03	2.156E-02	4.662E-05	8.913E-03	2.863E-07	1.751E-04	1.482E-04	8.265E-08
02:10	1.017E-02	2.982E-03	1.576E-02	3.006E-05	6.438E-03	1.425E-07	1.287E-04	1.089E-04	4.935E-08
02:20	7.469E-03	2.084E-03	1.152E-02	1.938E-05	4.650E-03	7.097E-08	9.456E-05	8.002E-05	2.947E-08
02:30	5.485E-03	1.456E-03	8.417E-03	1.250E-05	3.359E-03	3.533E-08	6.949E-05	5.880E-05	1.760E-08
02:40	4.028E-03	1.017E-03	6.152E-03	8.057E-06	2.426E-03	1.759E-08	5.106E-05	4.321E-05	1.051E-08
02:50	2.959E-03	7.104E-04	4.496E-03	5.195E-06	1.752E-03	8.756E-09	3.752E-05	3.175E-05	6.275E-09
03:00	2.173E-03	4.963E-04	3.286E-03	3.350E-06	1.266E-03	4.359E-09	2.758E-05	2.333E-05	3.747E-09

ATTACHMENT 6

ZONE MAPS

- This attachment contains Auxiliary Building area maps which define the affected zones. Radiological conditions for each zone are provided in the preceding sections.

SURVEY BY _____ TYPE _____
DATE _____ TIME _____ PWR _____ JA 317'
INST _____ SER _____

ZONE 1

HPST PUMP

HPST PUMP

Sturtevant Cooling HX

Sturtevant Cooling HX

HPST PUMP

HPST PUMP

HPST PUMP

HPST PUMP

WASTE TANK

WASTE TANK

ZONE 2

PUMP

WASTE TANK

WASTE TANK

SURVEY BY _____

TYPE _____

DATE _____

TIME _____

PWR _____

AREA **335'**

INST _____

SER _____

CAL DUE _____

B F _____

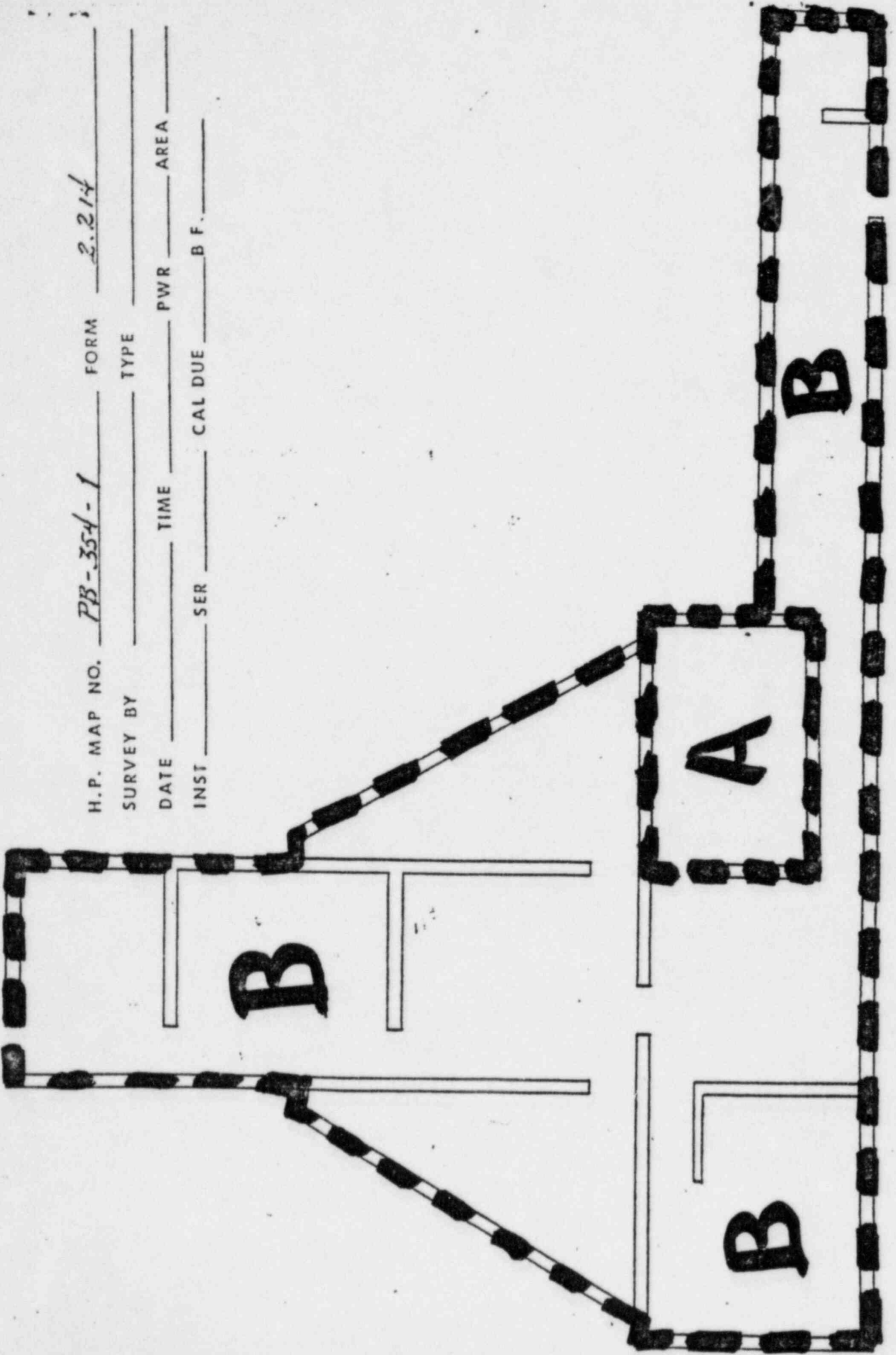
REV 1

ZONE 4

ZONE 3

Zone 5

- Zone 5 is defined as all areas of the Auxiliary Building not included in the preceding area maps.



H.P. MAP NO. PB-354-1 FORM 2.214
SURVEY BY _____ TYPE _____
DATE _____ TIME _____ PWR _____ AREA _____
INST _____ SER _____ CAL DUE _____ B F. _____

APPENDIX C
POST ACCIDENT SAMPLING DATA
AND
RADIOLOGICAL RELEASE PARAMETERS

TIME	I-131	I-132	I-133	I-134	I-135	Rb-88	Cs-134	Cs-137	Cs-138
14:00									
14:10	3.792E-04	1.292E-03	1.217E-03	1.733E-03	1.361E-03	1.695E-04	2.430E-06	4.309E-06	2.206E-04
14:20	3.785E-04	1.258E-03	1.211E-03	1.624E-03	1.348E-03	1.419E-04	2.427E-06	4.303E-06	1.996E-04
14:30	3.779E-04	1.226E-03	1.206E-03	1.525E-03	1.334E-03	1.202E-04	2.423E-06	4.297E-06	1.813E-04
14:40	3.772E-04	1.194E-03	1.201E-03	1.433E-03	1.321E-03	1.031E-04	2.420E-06	4.290E-06	1.651E-04
14:50	3.765E-04	1.164E-03	1.196E-03	1.348E-03	1.308E-03	8.937E-05	2.416E-06	4.284E-06	1.510E-04
15:00	3.759E-04	1.134E-03	1.191E-03	1.270E-03	1.295E-03	7.829E-05	2.413E-06	4.278E-06	1.385E-04
15:10	3.752E-04	1.105E-03	1.186E-03	1.199E-03	1.282E-03	6.925E-05	2.409E-06	4.271E-06	1.274E-04
15:20	3.745E-04	1.078E-03	1.181E-03	1.133E-03	1.269E-03	6.180E-05	2.406E-06	4.265E-06	1.176E-04
15:30	3.739E-04	1.051E-03	1.176E-03	1.071E-03	1.257E-03	5.561E-05	2.402E-06	4.259E-06	1.089E-04
15:40	3.732E-04	1.025E-03	1.171E-03	1.015E-03	1.244E-03	5.041E-05	2.398E-06	4.253E-06	1.011E-04
15:50	3.726E-04	1.000E-03	1.166E-03	9.625E-04	1.232E-03	4.601E-05	2.395E-06	4.246E-06	9.418E-05
16:00	3.719E-04	9.757E-04	1.161E-03	9.140E-04	1.220E-03	4.224E-05	2.391E-06	4.240E-06	8.796E-05
16:10	3.712E-04	9.522E-04	1.157E-03	8.689E-04	1.208E-03	3.900E-05	2.388E-06	4.234E-06	8.236E-05
16:20	3.706E-04	9.294E-04	1.152E-03	8.271E-04	1.196E-03	3.619E-05	2.384E-06	4.228E-06	7.731E-05
16:30	3.699E-04	9.073E-04	1.147E-03	7.882E-04	1.184E-03	3.372E-05	2.381E-06	4.222E-06	7.275E-05
16:40	3.693E-04	8.859E-04	1.142E-03	7.520E-04	1.173E-03	3.155E-05	2.378E-06	4.215E-06	6.862E-05
16:50	3.686E-04	8.652E-04	1.137E-03	7.183E-04	1.161E-03	2.963E-05	2.374E-06	4.209E-06	6.486E-05
17:00	3.680E-04	8.451E-04	1.132E-03	6.868E-04	1.150E-03	2.791E-05	2.371E-06	4.203E-06	6.144E-05
17:10	3.673E-04	8.256E-04	1.128E-03	6.574E-04	1.139E-03	2.637E-05	2.367E-06	4.197E-06	5.831E-05
17:20	3.667E-04	8.067E-04	1.123E-03	6.299E-04	1.128E-03	2.499E-05	2.364E-06	4.191E-06	5.545E-05
17:30	3.660E-04	7.884E-04	1.118E-03	6.042E-04	1.117E-03	2.373E-05	2.360E-06	4.185E-06	5.282E-05
17:40	3.654E-04	7.707E-04	1.114E-03	5.801E-04	1.106E-03	2.259E-05	2.357E-06	4.179E-06	5.040E-05
17:50	3.648E-04	7.535E-04	1.109E-03	5.575E-04	1.095E-03	2.154E-05	2.353E-06	4.173E-06	4.816E-05
18:00	3.641E-04	7.368E-04	1.104E-03	5.363E-04	1.085E-03	2.059E-05	2.350E-06	4.167E-06	4.610E-05
18:10	3.635E-04	7.206E-04	1.100E-03	5.163E-04	1.074E-03	1.971E-05	2.346E-06	4.161E-06	4.419E-05
18:20	3.628E-04	7.049E-04	1.095E-03	4.975E-04	1.064E-03	1.889E-05	2.343E-06	4.155E-06	4.241E-05
18:30	3.622E-04	6.896E-04	1.090E-03	4.798E-04	1.054E-03	1.814E-05	2.340E-06	4.148E-06	4.075E-05
18:40	3.616E-04	6.748E-04	1.086E-03	4.632E-04	1.044E-03	1.744E-05	2.336E-06	4.142E-06	3.921E-05
18:50	3.609E-04	6.604E-04	1.081E-03	4.474E-04	1.034E-03	1.679E-05	2.333E-06	4.136E-06	3.777E-05
19:00	3.603E-04	6.465E-04	1.077E-03	4.325E-04	1.024E-03	1.618E-05	2.330E-06	4.130E-06	3.642E-05
19:10	3.597E-04	6.329E-04	1.072E-03	4.185E-04	1.014E-03	1.561E-05	2.326E-06	4.124E-06	3.516E-05
19:20	3.590E-04	6.197E-04	1.068E-03	4.051E-04	1.004E-03	1.508E-05	2.323E-06	4.119E-06	3.397E-05
19:30	3.584E-04	6.070E-04	1.063E-03	3.925E-04	9.949E-04	1.458E-05	2.319E-06	4.113E-06	3.285E-05
19:40	3.558E-04	6.771E-04	1.065E-03	5.509E-04	1.021E-03	3.407E-05	2.300E-06	4.079E-06	5.586E-05
19:50	1.008E-03	2.832E-03	3.153E-03	3.237E-03	3.344E-03	2.151E-03	4.709E-05	8.350E-05	3.368E-03
20:00	1.493E-03	4.240E-03	4.686E-03	4.639E-03	4.998E-03	2.531E-03	8.043E-05	1.426E-04	4.746E-03
20:10	1.866E-03	5.166E-03	5.848E-03	5.287E-03	6.211E-03	2.275E-03	1.062E-04	1.882E-04	5.116E-03
20:20	2.161E-03	5.767E-03	6.753E-03	5.486E-03	7.116E-03	1.843E-03	1.266E-04	2.244E-04	4.970E-03
20:30	2.399E-03	6.142E-03	7.472E-03	5.416E-03	7.800E-03	1.414E-03	1.431E-04	2.537E-04	4.574E-03
20:40	2.596E-03	6.357E-03	8.050E-03	5.189E-03	8.320E-03	1.051E-03	1.568E-04	2.779E-04	4.075E-03
20:50	2.760E-03	6.455E-03	8.522E-03	4.873E-03	8.715E-03	7.643E-04	1.682E-04	2.982E-04	3.556E-03
21:00	2.898E-03	6.468E-03	8.909E-03	4.514E-03	9.013E-03	5.480E-04	1.779E-04	3.154E-04	3.058E-03
21:10	3.016E-03	6.419E-03	9.230E-03	4.140E-03	9.235E-03	3.887E-04	1.862E-04	3.301E-04	2.602E-03
21:20	3.118E-03	6.324E-03	9.497E-03	3.768E-03	9.397E-03	2.736E-04	1.934E-04	3.428E-04	2.196E-03
21:30	3.205E-03	6.195E-03	9.719E-03	3.410E-03	9.509E-03	1.914E-04	1.996E-04	3.539E-04	1.843E-03
21:40	3.282E-03	6.042E-03	9.905E-03	3.071E-03	9.582E-03	1.332E-04	2.051E-04	3.636E-04	1.539E-03
21:50	5.130E+00	5.253E+00	8.991E+00	3.954E-01	4.930E+00	1.048E+00	6.394E-01	5.412E-01	4.519E-02
22:00	2.424E+01	2.361E+01	4.227E+01	1.632E+00	2.289E+01	3.391E+00	3.024E+00	2.559E+00	1.699E-01
22:10	8.284E+01	7.672E+01	1.437E+02	4.891E+00	7.691E+01	7.942E+00	1.034E+01	8.749E+00	4.699E-01
22:20	4.133E+02	3.641E+02	7.134E+02	2.142E+01	3.773E+02	2.686E+01	5.161E+01	4.367E+01	1.903E+00
22:30	7.843E+02	6.573E+02	1.347E+03	3.568E+01	7.043E+02	3.644E+01	9.802E+01	8.294E+01	2.937E+00
22:40	1.144E+03	9.116E+02	1.955E+03	4.567E+01	1.010E+03	3.878E+01	1.430E+02	1.210E+02	3.481E+00
22:50	1.468E+03	1.113E+03	2.497E+03	5.148E+01	1.275E+03	3.705E+01	1.837E+02	1.554E+02	3.634E+00
23:00	1.762E+03	1.271E+03	2.983E+03	5.425E+01	1.505E+03	3.368E+01	2.206E+02	1.867E+02	3.546E+00

Scenario 85 Containment Sump (uCi/ml)

TIME	I-131	I-132	I-133	I-134	I-135	Rb-88	Cs-134	Cs-137	Cs-138
23:10	2.029E+03	1.392E+03	3.417E+03	5.483E+01	1.704E+03	2.987E+01	2.541E+02	2.150E+02	3.319E+00
23:20	2.270E+03	1.482E+03	3.805E+03	5.387E+01	1.876E+03	2.622E+01	2.846E+02	2.408E+02	3.020E+00
23:30	2.490E+03	1.546E+03	4.153E+03	5.187E+01	2.023E+03	2.294E+01	3.123E+02	2.642E+02	2.693E+00
23:40	2.689E+03	1.588E+03	4.464E+03	4.919E+01	2.149E+03	2.010E+01	3.375E+02	2.856E+02	2.365E+00
23:50	2.871E+03	1.613E+03	4.742E+03	4.610E+01	2.256E+03	1.768E+01	3.605E+02	3.050E+02	2.053E+00
24:00	3.036E+03	1.622E+03	4.990E+03	4.280E+01	2.347E+03	1.564E+01	3.814E+02	3.228E+02	1.765E+00
00:10	3.186E+03	1.620E+03	5.211E+03	3.943E+01	2.422E+03	1.392E+01	4.005E+02	3.389E+02	1.506E+00
00:20	3.323E+03	1.607E+03	5.408E+03	3.610E+01	2.484E+03	1.245E+01	4.180E+02	3.537E+02	1.277E+00
00:30	3.447E+03	1.585E+03	5.583E+03	3.288E+01	2.535E+03	1.120E+01	4.338E+02	3.671E+02	1.077E+00
00:40	3.560E+03	1.558E+03	5.738E+03	2.981E+01	2.575E+03	1.012E+01	4.483E+02	3.794E+02	9.046E-01
00:50	3.663E+03	1.524E+03	5.874E+03	2.693E+01	2.605E+03	9.175E+00	4.615E+02	3.905E+02	7.567E-01
01:00	3.756E+03	1.487E+03	5.994E+03	2.424E+01	2.627E+03	8.350E+00	4.736E+02	4.007E+02	6.309E-01
01:10	3.858E+03	1.453E+03	6.127E+03	2.186E+01	2.654E+03	7.646E+00	4.867E+02	4.119E+02	5.269E-01
01:20	3.952E+03	1.415E+03	6.245E+03	1.966E+01	2.674E+03	7.010E+00	4.988E+02	4.221E+02	4.388E-01
01:30	4.037E+03	1.376E+03	6.350E+03	1.764E+01	2.687E+03	6.435E+00	5.100E+02	4.315E+02	3.645E-01
01:40	4.116E+03	1.334E+03	6.442E+03	1.578E+01	2.694E+03	5.912E+00	5.202E+02	4.402E+02	3.022E-01
01:50	4.188E+03	1.291E+03	6.522E+03	1.410E+01	2.696E+03	5.437E+00	5.296E+02	4.482E+02	2.500E-01
02:00	4.254E+03	1.248E+03	6.592E+03	1.257E+01	2.693E+03	5.005E+00	5.383E+02	4.555E+02	2.065E-01
02:10	4.314E+03	1.204E+03	6.653E+03	1.119E+01	2.686E+03	4.610E+00	5.462E+02	4.622E+02	1.702E-01
02:20	4.369E+03	1.159E+03	6.704E+03	9.952E+00	2.675E+03	4.248E+00	5.534E+02	4.683E+02	1.402E-01
02:30	4.418E+03	1.115E+03	6.747E+03	8.837E+00	2.661E+03	3.918E+00	5.601E+02	4.739E+02	1.153E-01
02:40	4.463E+03	1.072E+03	6.783E+03	7.837E+00	2.644E+03	3.615E+00	5.661E+02	4.790E+02	9.467E-02
02:50	4.504E+03	1.029E+03	6.811E+03	6.943E+00	2.624E+03	3.337E+00	5.716E+02	4.837E+02	7.768E-02
03:00	4.541E+03	9.866E+02	6.833E+03	6.145E+00	2.601E+03	3.082E+00	5.766E+02	4.879E+02	6.367E-02

TIME	Kr-85m	Kr-85	Kr-87	Kr-88	Xe-131m	Xe-133m	Xe-133	Xe-135
14:00								
14:10	3.170E-02		4.413E-02	4.954E-02		6.791E-03	3.677E-01	1.246E-01
14:20	3.125E-02		4.214E-02	4.847E-02		6.774E-03	3.670E-01	1.236E-01
14:30	3.081E-02		4.027E-02	4.742E-02		6.757E-03	3.663E-01	1.226E-01
14:40	3.038E-02		3.850E-02	4.641E-02		6.740E-03	3.656E-01	1.217E-01
14:50	2.995E-02		3.684E-02	4.542E-02		6.723E-03	3.649E-01	1.208E-01
15:00	2.954E-02		3.527E-02	4.446E-02		6.706E-03	3.641E-01	1.198E-01
15:10	2.912E-02		3.379E-02	4.352E-02		6.689E-03	3.635E-01	1.189E-01
15:20	2.872E-02		3.239E-02	4.261E-02		6.672E-03	3.628E-01	1.180E-01
15:30	2.832E-02		3.107E-02	4.172E-02		6.655E-03	3.621E-01	1.171E-01
15:40	2.793E-02		2.982E-02	4.085E-02		6.638E-03	3.614E-01	1.162E-01
15:50	2.755E-02		2.864E-02	4.001E-02		6.621E-03	3.607E-01	1.153E-01
16:00	2.717E-02		2.753E-02	3.919E-02		6.605E-03	3.600E-01	1.144E-01
16:10	2.680E-02		2.647E-02	3.839E-02		6.588E-03	3.593E-01	1.135E-01
16:20	2.643E-02		2.547E-02	3.762E-02		6.571E-03	3.586E-01	1.127E-01
16:30	2.607E-02		2.453E-02	3.686E-02		6.555E-03	3.579E-01	1.118E-01
16:40	2.572E-02		2.363E-02	3.612E-02		6.538E-03	3.572E-01	1.110E-01
16:50	2.537E-02		2.278E-02	3.540E-02		6.521E-03	3.565E-01	1.101E-01
17:00	2.503E-02		2.197E-02	3.470E-02		6.505E-03	3.559E-01	1.093E-01
17:10	2.470E-02		2.120E-02	3.402E-02		6.488E-03	3.552E-01	1.084E-01
17:20	2.436E-02		2.047E-02	3.336E-02		6.472E-03	3.545E-01	1.076E-01
17:30	2.404E-02		1.978E-02	3.271E-02		6.456E-03	3.538E-01	1.068E-01
17:40	2.372E-02		1.912E-02	3.208E-02		6.439E-03	3.531E-01	1.060E-01
17:50	2.341E-02		1.849E-02	3.146E-02		6.423E-03	3.525E-01	1.052E-01
18:00	2.310E-02		1.789E-02	3.086E-02		6.407E-03	3.518E-01	1.044E-01
18:10	2.279E-02		1.733E-02	3.028E-02		6.390E-03	3.511E-01	1.036E-01
18:20	2.249E-02		1.678E-02	2.971E-02		6.374E-03	3.504E-01	1.028E-01
18:30	2.220E-02		1.627E-02	2.915E-02		6.358E-03	3.498E-01	1.021E-01
18:40	2.191E-02		1.578E-02	2.861E-02		6.342E-03	3.491E-01	1.013E-01
18:50	2.162E-02		1.530E-02	2.808E-02		6.326E-03	3.484E-01	1.005E-01
19:00	2.134E-02		1.486E-02	2.756E-02		6.310E-03	3.478E-01	9.977E-02
19:10	2.107E-02		1.443E-02	2.706E-02		6.294E-03	3.471E-01	9.902E-02
19:20	2.080E-02		1.402E-02	2.657E-02		6.278E-03	3.464E-01	9.828E-02
19:30	2.053E-02		1.362E-02	2.609E-02		6.262E-03	3.458E-01	9.754E-02
19:40	2.148E-02		1.708E-02	2.838E-02		6.235E-03	3.435E-01	9.913E-02
19:50	1.856E-02		1.418E-02	2.430E-02		5.466E-03	3.014E-01	8.643E-02
20:00	1.636E-02		1.197E-02	2.120E-02		4.890E-03	2.698E-01	7.694E-02
20:10	1.463E-02		1.024E-02	1.877E-02		4.441E-03	2.453E-01	6.960E-02
20:20	1.323E-02		8.844E-03	1.679E-02		4.082E-03	2.256E-01	6.375E-02
20:30	1.208E-02		7.695E-03	1.516E-02		3.788E-03	2.095E-01	5.898E-02
20:40	1.110E-02		6.736E-03	1.378E-02		3.542E-03	1.961E-01	5.502E-02
20:50	1.027E-02		5.924E-03	1.261E-02		3.333E-03	1.847E-01	5.170E-02
21:00	9.550E-03		5.232E-03	1.158E-02		3.154E-03	1.750E-01	4.886E-02
21:10	8.917E-03		4.636E-03	1.069E-02		2.998E-03	1.665E-01	4.641E-02
21:20	8.358E-03		4.119E-03	9.894E-03		2.862E-03	1.590E-01	4.429E-02
21:30	7.858E-03		3.669E-03	9.188E-03		2.741E-03	1.525E-01	4.242E-02
21:40	7.409E-03		3.274E-03	8.555E-03		2.633E-03	1.466E-01	4.078E-02
21:50	5.260E-01	2.393E-01	1.739E-01	8.848E-01	3.358E-02	2.390E-01	1.029E+01	1.329E+01
22:00	2.400E+00	1.132E+00	7.410E-01	3.988E+00	1.589E-01	1.120E+00	4.817E+01	6.203E+01
22:10	7.981E+00	3.871E+00	2.307E+00	1.307E+01	5.430E-01	3.818E+00	1.643E+02	2.095E+02
22:20	3.881E+01	1.932E+01	1.050E+01	6.257E+01	2.709E+00	1.900E+01	8.187E+02	1.032E+03
22:30	7.182E+01	3.669E+01	1.821E+01	1.140E+02	5.145E+00	3.607E+01	1.556E+03	1.940E+03
22:40	1.021E+02	5.353E+01	2.424E+01	1.596E+02	7.506E+00	5.262E+01	2.273E+03	2.802E+03
22:50	1.279E+02	6.877E+01	2.843E+01	1.967E+02	9.643E+00	6.762E+01	2.923E+03	3.566E+03
23:00	1.497E+02	8.259E+01	3.117E+01	2.267E+02	1.158E+01	8.122E+01	3.515E+03	4.241E+03

Scenerio 85 Containment Sump (uCi/ml)

TIME	Kr-85m	Kr-85	Kr-87	Kr-88	Xe-131m	Xe-133m	Xe-133	Xe-135
23:10	1.680E+02	9.513E+01	3.277E+01	2.506E+02	1.334E+01	9.358E+01	4.055E+03	4.839E+03
23:20	1.834E+02	1.065E+02	3.350E+01	2.693E+02	1.494E+01	1.048E+02	4.547E+03	5.367E+03
23:30	1.961E+02	1.169E+02	3.356E+01	2.836E+02	1.639E+01	1.150E+02	4.996E+03	5.833E+03
23:40	2.066E+02	1.264E+02	3.311E+01	2.941E+02	1.772E+01	1.244E+02	5.407E+03	6.243E+03
23:50	2.151E+02	1.350E+02	3.228E+01	3.014E+02	1.893E+01	1.329E+02	5.783E+03	6.604E+03
24:00	2.218E+02	1.428E+02	3.118E+01	3.061E+02	2.003E+01	1.406E+02	6.127E+03	6.921E+03
00:10	2.270E+02	1.500E+02	2.989E+01	3.084E+02	2.103E+01	1.477E+02	6.442E+03	7.197E+03
00:20	2.309E+02	1.565E+02	2.847E+01	3.088E+02	2.195E+01	1.541E+02	6.731E+03	7.437E+03
00:30	2.336E+02	1.624E+02	2.697E+01	3.076E+02	2.278E+01	1.600E+02	6.996E+03	7.644E+03
00:40	2.353E+02	1.679E+02	2.545E+01	3.050E+02	2.354E+01	1.653E+02	7.238E+03	7.822E+03
00:50	2.361E+02	1.728E+02	2.391E+01	3.013E+02	2.424E+01	1.702E+02	7.460E+03	7.974E+03
01:00	2.361E+02	1.773E+02	2.240E+01	2.967E+02	2.487E+01	1.747E+02	7.663E+03	8.101E+03
01:10	2.365E+02	1.822E+02	2.101E+01	2.926E+02	2.556E+01	1.795E+02	7.885E+03	8.244E+03
01:20	2.363E+02	1.868E+02	1.966E+01	2.877E+02	2.620E+01	1.840E+02	8.090E+03	8.365E+03
01:30	2.354E+02	1.909E+02	1.835E+01	2.823E+02	2.678E+01	1.881E+02	8.280E+03	8.467E+03
01:40	2.341E+02	1.948E+02	1.708E+01	2.763E+02	2.732E+01	1.918E+02	8.455E+03	8.551E+03
01:50	2.323E+02	1.983E+02	1.588E+01	2.699E+02	2.782E+01	1.953E+02	8.617E+03	8.618E+03
02:00	2.301E+02	2.015E+02	1.473E+01	2.633E+02	2.827E+01	1.985E+02	8.767E+03	8.671E+03
02:10	2.275E+02	2.045E+02	1.364E+01	2.563E+02	2.869E+01	2.014E+02	8.904E+03	8.710E+03
02:20	2.247E+02	2.072E+02	1.262E+01	2.492E+02	2.907E+01	2.040E+02	9.031E+03	8.736E+03
02:30	2.216E+02	2.097E+02	1.166E+01	2.420E+02	2.941E+01	2.064E+02	9.148E+03	8.750E+03
02:40	2.184E+02	2.120E+02	1.076E+01	2.348E+02	2.973E+01	2.086E+02	9.255E+03	8.755E+03
02:50	2.149E+02	2.140E+02	9.913E+00	2.275E+02	3.002E+01	2.105E+02	9.353E+03	8.749E+03
03:00	2.113E+02	2.159E+02	9.128E+00	2.202E+02	3.028E+01	2.123E+02	9.443E+03	8.735E+03

TIME	Kr-85m	Kr-85	Kr-87	Kr-88	Xe-131m	Xe-133m	Xe-133	Xe-135
14:00								
14:10	3.214E-06		4.473E-06	5.022E-06		6.885E-07	3.727E-05	1.263E-05
14:20	6.337E-06		8.543E-06	9.827E-06		1.373E-06	7.440E-05	2.506E-05
14:30	9.371E-06		1.225E-05	1.442E-05		2.055E-06	1.114E-04	3.730E-05
14:40	1.232E-05		1.561E-05	1.882E-05		2.733E-06	1.482E-04	4.934E-05
14:50	1.518E-05		1.867E-05	2.302E-05		3.408E-06	1.849E-04	6.121E-05
15:00	1.797E-05		2.145E-05	2.704E-05		4.079E-06	2.215E-04	7.288E-05
15:10	2.067E-05		2.398E-05	3.088E-05		4.747E-06	2.579E-04	8.437E-05
15:20	2.329E-05		2.627E-05	3.455E-05		5.411E-06	2.942E-04	9.569E-05
15:30	2.584E-05		2.835E-05	3.806E-05		6.072E-06	3.303E-04	1.068E-04
15:40	2.832E-05		3.023E-05	4.142E-05		6.729E-06	3.663E-04	1.178E-04
15:50	3.072E-05		3.194E-05	4.462E-05		7.384E-06	4.022E-04	1.286E-04
16:00	3.305E-05		3.349E-05	4.768E-05		8.035E-06	4.379E-04	1.392E-04
16:10	3.532E-05		3.489E-05	5.060E-05		8.682E-06	4.735E-04	1.496E-04
16:20	3.751E-05		3.615E-05	5.339E-05		9.326E-06	5.089E-04	1.599E-04
16:30	3.965E-05		3.729E-05	5.605E-05		9.967E-06	5.442E-04	1.700E-04
16:40	4.172E-05		3.832E-05	5.859E-05		1.060E-05	5.794E-04	1.800E-04
16:50	4.373E-05		3.925E-05	6.101E-05		1.124E-05	6.144E-04	1.898E-04
17:00	4.568E-05		4.008E-05	6.333E-05		1.187E-05	6.493E-04	1.994E-04
17:10	4.757E-05		4.083E-05	6.553E-05		1.250E-05	6.841E-04	2.089E-04
17:20	4.940E-05		4.150E-05	6.763E-05		1.312E-05	7.187E-04	2.182E-04
17:30	5.118E-05		4.210E-05	6.963E-05		1.374E-05	7.532E-04	2.274E-04
17:40	5.290E-05		4.264E-05	7.154E-05		1.436E-05	7.876E-04	2.364E-04
17:50	5.457E-05		4.312E-05	7.336E-05		1.498E-05	8.218E-04	2.453E-04
18:00	5.619E-05		4.354E-05	7.509E-05		1.559E-05	8.559E-04	2.540E-04
18:10	5.776E-05		4.391E-05	7.673E-05		1.620E-05	8.898E-04	2.626E-04
18:20	5.929E-05		4.424E-05	7.830E-05		1.680E-05	9.237E-04	2.710E-04
18:30	6.076E-05		4.453E-05	7.978E-05		1.740E-05	9.574E-04	2.793E-04
18:40	6.219E-05		4.478E-05	8.120E-05		1.800E-05	9.909E-04	2.875E-04
18:50	6.357E-05		4.499E-05	8.254E-05		1.860E-05	1.024E-03	2.955E-04
19:00	6.491E-05		4.518E-05	8.382E-05		1.919E-05	1.058E-03	3.034E-04
19:10	6.621E-05		4.534E-05	8.503E-05		1.978E-05	1.091E-03	3.112E-04
19:20	6.747E-05		4.547E-05	8.618E-05		2.037E-05	1.124E-03	3.188E-04
19:30	6.868E-05		4.558E-05	8.727E-05		2.095E-05	1.157E-03	3.263E-04
19:40	6.989E-05		4.567E-05	8.831E-05		2.150E-05	1.189E-03	3.336E-04
19:50	7.109E-05		4.575E-05	8.930E-05		2.203E-05	1.220E-03	3.407E-04
20:00	7.228E-05		4.582E-05	9.024E-05		2.255E-05	1.250E-03	3.476E-04
20:10	7.346E-05		4.588E-05	9.113E-05		2.306E-05	1.279E-03	3.543E-04
20:20	7.463E-05		4.593E-05	9.200E-05		2.356E-05	1.308E-03	3.608E-04
20:30	7.579E-05		4.597E-05	9.282E-05		2.405E-05	1.336E-03	3.672E-04
20:40	7.694E-05		4.600E-05	9.360E-05		2.453E-05	1.364E-03	3.734E-04
20:50	7.808E-05		4.602E-05	9.434E-05		2.500E-05	1.391E-03	3.795E-04
21:00	7.921E-05		4.603E-05	9.504E-05		2.546E-05	1.417E-03	3.854E-04
21:10	8.033E-05		4.603E-05	9.570E-05		2.591E-05	1.443E-03	3.912E-04
21:20	8.144E-05		4.602E-05	9.632E-05		2.635E-05	1.468E-03	3.968E-04
21:30	8.254E-05		4.600E-05	9.690E-05		2.678E-05	1.492E-03	4.023E-04
21:40	8.363E-05		4.597E-05	9.744E-05		2.720E-05	1.515E-03	4.076E-04
21:50	8.471E-05		4.593E-05	9.794E-05		2.761E-05	1.537E-03	4.128E-04
22:00	8.578E-05	3.065E-03	4.588E-05	9.840E-05	4.301E-04	2.801E-05	1.559E-03	4.178E-04
22:10	8.684E-05	1.526E-02	4.582E-05	9.882E-05	2.142E-03	1.510E-02	6.495E-01	8.363E-01
22:20	8.789E-05	5.481E-02	4.575E-05	9.920E-05	7.688E-03	5.406E-02	2.327E+00	2.967E+00
22:30	8.893E-05	2.866E-01	4.567E-05	9.954E-05	4.019E-02	2.819E-01	1.215E+01	1.531E+01
22:40	8.996E-05	5.691E-01	4.558E-05	9.982E-05	7.980E-02	5.595E-01	2.413E+01	3.009E+01
22:50	9.098E-05	8.645E-01	4.547E-05	1.000E-04	1.212E-01	8.499E-01	3.670E+01	4.526E+01
23:00	9.199E-05	1.154E+00	4.534E-05	1.002E-04	1.618E-01	1.135E+00	4.906E+01	5.984E+01
23:10	9.299E-05	1.438E+00	4.520E-05	1.004E-04	2.017E-01	1.414E+00	6.122E+01	7.385E+01

Scenerio 85 Containment Air (uCi/cc)

TIME	Kr-85m	Kr-85	Kr-87	Kr-88	Xe-131m	Xe-133m	Xe-133	Xe-135
23:10	3.032E+00	1.717E+00	5.914E-01	4.522E+00	2.407E-01	1.689E+00	7.317E+01	8.731E+01
23:20	3.425E+00	1.990E+00	6.257E-01	5.030E+00	2.790E-01	1.958E+00	8.492E+01	1.002E+02
23:30	3.788E+00	2.258E+00	6.480E-01	5.476E+00	3.166E-01	2.221E+00	9.648E+01	1.126E+02
23:40	4.121E+00	2.520E+00	6.604E-01	5.866E+00	3.534E-01	2.480E+00	1.078E+02	1.245E+02
23:50	4.427E+00	2.778E+00	6.644E-01	6.204E+00	3.895E-01	2.734E+00	1.190E+02	1.359E+02
24:00	4.707E+00	3.030E+00	6.616E-01	6.494E+00	4.250E-01	2.983E+00	1.300E+02	1.468E+02
00:10	4.963E+00	3.278E+00	6.533E-01	6.741E+00	4.597E-01	3.227E+00	1.408E+02	1.572E+02
00:20	5.195E+00	3.521E+00	6.405E-01	6.948E+00	4.938E-01	3.466E+00	1.514E+02	1.672E+02
00:30	5.406E+00	3.759E+00	6.242E-01	7.118E+00	5.272E-01	3.700E+00	1.618E+02	1.768E+02
00:40	5.596E+00	3.992E+00	6.052E-01	7.254E+00	5.599E-01	3.930E+00	1.721E+02	1.859E+02
00:50	5.767E+00	4.221E+00	5.841E-01	7.360E+00	5.920E-01	4.156E+00	1.821E+02	1.946E+02
01:00	5.920E+00	4.446E+00	5.616E-01	7.438E+00	6.235E-01	4.377E+00	1.920E+02	2.030E+02
01:10	6.056E+00	4.666E+00	5.380E-01	7.491E+00	6.544E-01	4.593E+00	2.017E+02	2.109E+02
01:20	6.175E+00	4.882E+00	5.138E-01	7.521E+00	6.846E-01	4.805E+00	2.113E+02	2.184E+02
01:30	6.280E+00	5.093E+00	4.894E-01	7.530E+00	7.143E-01	5.013E+00	2.207E+02	2.256E+02
01:40	6.370E+00	5.301E+00	4.649E-01	7.520E+00	7.434E-01	5.217E+00	2.299E+02	2.325E+02
01:50	6.447E+00	5.504E+00	4.407E-01	7.493E+00	7.720E-01	5.416E+00	2.390E+02	2.389E+02
02:00	6.511E+00	5.704E+00	4.168E-01	7.451E+00	7.999E-01	5.611E+00	2.479E+02	2.451E+02
02:10	6.564E+00	5.899E+00	3.936E-01	7.395E+00	8.274E-01	5.803E+00	2.566E+02	2.509E+02
02:20	6.606E+00	6.091E+00	3.709E-01	7.327E+00	8.543E-01	5.990E+00	2.652E+02	2.565E+02
02:30	6.637E+00	6.279E+00	3.491E-01	7.248E+00	8.806E-01	6.174E+00	2.736E+02	2.617E+02
02:40	6.659E+00	6.464E+00	3.280E-01	7.159E+00	9.065E-01	6.354E+00	2.819E+02	2.666E+02
02:50	6.672E+00	6.645E+00	3.078E-01	7.062E+00	9.318E-01	6.530E+00	2.901E+02	2.713E+02
03:00	6.676E+00	6.822E+00	2.885E-01	6.958E+00	9.567E-01	6.702E+00	2.981E+02	2.756E+02

Scenario 85 Containment Air (uCi/cc)

TIME	I-131	I-132	I-133	I-134	I-135	Rb-88	Cs-134	Cs-137	Cs-138
14:00									
14:10	4.271E-10	1.456E-09	1.370E-09	1.952E-09	1.534E-09	1.909E-11	2.738E-13	4.854E-13	2.485E-11
14:20	8.527E-10	2.835E-09	2.729E-09	3.659E-09	3.036E-09	3.196E-11	5.467E-13	9.693E-13	4.497E-11
14:30	1.277E-09	4.142E-09	4.077E-09	5.152E-09	4.509E-09	4.063E-11	8.189E-13	1.452E-12	6.125E-11
14:40	1.699E-09	5.380E-09	5.413E-09	6.455E-09	5.952E-09	4.645E-11	1.090E-12	1.933E-12	7.441E-11
14:50	2.121E-09	6.554E-09	6.737E-09	7.593E-09	7.366E-09	5.033E-11	1.361E-12	2.413E-12	8.503E-11
15:00	2.540E-09	7.665E-09	8.051E-09	8.586E-09	8.751E-09	5.291E-11	1.631E-12	2.891E-12	9.358E-11
15:10	2.958E-09	8.716E-09	9.353E-09	9.452E-09	1.011E-08	5.460E-11	1.899E-12	3.368E-12	1.005E-10
15:20	3.375E-09	9.712E-09	1.064E-08	1.021E-08	1.144E-08	5.569E-11	2.168E-12	3.843E-12	1.060E-10
15:30	3.790E-09	1.065E-08	1.192E-08	1.086E-08	1.274E-08	5.637E-11	2.435E-12	4.317E-12	1.104E-10
15:40	4.204E-09	1.155E-08	1.319E-08	1.143E-08	1.402E-08	5.678E-11	2.702E-12	4.790E-12	1.139E-10
15:50	4.616E-09	1.239E-08	1.445E-08	1.193E-08	1.527E-08	5.700E-11	2.967E-12	5.261E-12	1.167E-10
16:00	5.027E-09	1.319E-08	1.570E-08	1.235E-08	1.649E-08	5.710E-11	3.232E-12	5.731E-12	1.189E-10
16:10	5.436E-09	1.394E-08	1.694E-08	1.272E-08	1.769E-08	5.711E-11	3.497E-12	6.200E-12	1.206E-10
16:20	5.844E-09	1.466E-08	1.816E-08	1.304E-08	1.886E-08	5.706E-11	3.760E-12	6.667E-12	1.219E-10
16:30	6.250E-09	1.533E-08	1.938E-08	1.332E-08	2.001E-08	5.698E-11	4.023E-12	7.133E-12	1.229E-10
16:40	6.655E-09	1.597E-08	2.058E-08	1.355E-08	2.114E-08	5.686E-11	4.285E-12	7.597E-12	1.237E-10
16:50	7.059E-09	1.657E-08	2.178E-08	1.375E-08	2.224E-08	5.674E-11	4.546E-12	8.060E-12	1.242E-10
17:00	7.461E-09	1.713E-08	2.296E-08	1.393E-08	2.332E-08	5.659E-11	4.806E-12	8.522E-12	1.246E-10
17:10	7.862E-09	1.767E-08	2.413E-08	1.407E-08	2.437E-08	5.645E-11	5.066E-12	8.982E-12	1.248E-10
17:20	8.261E-09	1.817E-08	2.530E-08	1.419E-08	2.541E-08	5.629E-11	5.325E-12	9.441E-12	1.249E-10
17:30	8.659E-09	1.865E-08	2.645E-08	1.429E-08	2.642E-08	5.613E-11	5.583E-12	9.899E-12	1.249E-10
17:40	9.055E-09	1.910E-08	2.759E-08	1.438E-08	2.741E-08	5.597E-11	5.840E-12	1.036E-11	1.249E-10
17:50	9.450E-09	1.952E-08	2.873E-08	1.444E-08	2.838E-08	5.581E-11	6.097E-12	1.081E-11	1.248E-10
18:00	9.843E-09	1.992E-08	2.985E-08	1.450E-08	2.933E-08	5.565E-11	6.353E-12	1.126E-11	1.246E-10
18:10	1.024E-08	2.029E-08	3.096E-08	1.454E-08	3.025E-08	5.549E-11	6.608E-12	1.172E-11	1.244E-10
18:20	1.063E-08	2.064E-08	3.207E-08	1.457E-08	3.116E-08	5.533E-11	6.862E-12	1.217E-11	1.242E-10
18:30	1.102E-08	2.097E-08	3.316E-08	1.459E-08	3.205E-08	5.517E-11	7.116E-12	1.262E-11	1.239E-10
18:40	1.140E-08	2.128E-08	3.425E-08	1.461E-08	3.292E-08	5.501E-11	7.368E-12	1.306E-11	1.237E-10
18:50	1.179E-08	2.157E-08	3.532E-08	1.461E-08	3.377E-08	5.485E-11	7.620E-12	1.351E-11	1.234E-10
19:00	1.218E-08	2.185E-08	3.638E-08	1.462E-08	3.460E-08	5.468E-11	7.872E-12	1.396E-11	1.231E-10
19:10	1.256E-08	2.210E-08	3.744E-08	1.461E-08	3.541E-08	5.452E-11	8.122E-12	1.440E-11	1.228E-10
19:20	1.294E-08	2.234E-08	3.849E-08	1.460E-08	3.621E-08	5.436E-11	8.372E-12	1.485E-11	1.225E-10
19:30	1.332E-08	2.256E-08	3.952E-08	1.459E-08	3.698E-08	5.420E-11	8.621E-12	1.529E-11	1.221E-10
19:40	1.590E-08	3.025E-08	4.760E-08	2.461E-08	4.563E-08	1.522E-10	1.028E-11	1.822E-11	2.496E-10
19:50	5.261E-08	1.478E-07	1.646E-07	1.690E-07	1.745E-07	1.123E-08	2.458E-10	4.358E-10	1.758E-08
20:00	1.911E-08	2.531E-07	2.797E-07	2.769E-07	2.984E-07	1.511E-08	4.802E-10	8.514E-10	2.833E-08
20:10	1.254E-07	3.472E-07	3.931E-07	3.554E-07	4.174E-07	1.529E-08	7.135E-10	1.265E-09	3.439E-08
20:20	1.615E-07	4.309E-07	5.046E-07	4.099E-07	5.317E-07	1.377E-08	9.456E-10	1.677E-09	3.713E-08
20:30	1.973E-07	5.051E-07	6.144E-07	4.454E-07	6.413E-07	1.163E-08	1.177E-09	2.086E-09	3.761E-08
20:40	2.329E-07	5.704E-07	7.224E-07	4.656E-07	7.466E-07	9.428E-09	1.407E-09	2.494E-09	3.657E-08
20:50	2.684E-07	6.277E-07	8.287E-07	4.739E-07	8.475E-07	7.433E-09	1.636E-09	2.900E-09	3.458E-08
21:00	3.036E-07	6.775E-07	9.333E-07	4.729E-07	9.442E-07	5.740E-09	1.863E-09	3.304E-09	3.203E-08
21:10	3.386E-07	7.206E-07	1.036E-06	4.647E-07	1.037E-06	4.364E-09	2.090E-09	3.706E-09	2.921E-08
21:20	3.734E-07	7.574E-07	1.137E-06	4.513E-07	1.125E-06	3.277E-09	2.316E-09	4.106E-09	2.631E-08
21:30	4.080E-07	7.885E-07	1.237E-06	4.340E-07	1.210E-06	2.436E-09	2.540E-09	4.504E-09	2.346E-08
21:40	4.424E-07	8.144E-07	1.335E-06	4.140E-07	1.292E-06	1.796E-09	2.764E-09	4.901E-09	2.074E-08
21:50	7.300E-04	7.476E-04	1.279E-03	5.626E-05	7.015E-04	1.491E-05	9.099E-06	7.702E-06	6.431E-07
22:00	3.632E-03	3.537E-03	6.332E-03	2.445E-04	3.429E-03	5.080E-05	4.530E-05	3.834E-05	2.545E-06
22:10	1.303E-02	1.207E-02	2.261E-02	7.695E-04	1.210E-02	1.249E-04	1.627E-04	1.376E-04	7.393E-06
22:20	6.812E-02	6.001E-02	1.176E-01	3.530E-03	6.219E-02	4.427E-04	8.508E-04	7.199E-04	3.137E-05
22:30	1.352E-01	1.133E-01	2.322E-01	6.150E-03	1.214E-01	6.280E-04	1.689E-03	1.429E-03	5.061E-05
22:40	2.052E-01	1.636E-01	3.508E-01	8.196E-03	1.812E-01	6.956E-04	2.566E-03	2.171E-03	6.246E-05
22:50	2.738E-01	2.076E-01	4.657E-01	9.601E-03	2.378E-01	6.902E-04	3.426E-03	2.899E-03	6.776E-05
23:00	3.410E-01	2.459E-01	5.771E-01	1.050E-02	2.912E-01	6.503E-04	4.269E-03	3.612E-03	6.861E-05

TIME	I-131	I-132	I-133	I-134	I-135	Rb-88	Cs-134	Cs-137	Cs-138
23:10	4.067E-01	2.791E-01	6.851E-01	1.099E-02	3.417E-01	5.969E-04	5.095E-03	4.311E-03	6.655E-05
23:20	4.712E-01	3.075E-01	7.898E-01	1.118E-02	3.893E-01	5.412E-04	5.906E-03	4.997E-03	6.268E-05
23:30	5.343E-01	3.317E-01	8.911E-01	1.113E-02	4.341E-01	4.886E-04	6.700E-03	5.670E-03	5.779E-05
23:40	5.961E-01	3.520E-01	9.893E-01	1.090E-02	4.763E-01	4.411E-04	7.480E-03	6.329E-03	5.242E-05
23:50	6.566E-01	3.688E-01	1.084E+00	1.054E-02	5.160E-01	3.995E-04	8.244E-03	6.976E-03	4.695E-05
24:00	7.158E-01	3.825E-01	1.177E+00	1.009E-02	5.533E-01	3.633E-04	8.993E-03	7.610E-03	4.162E-05
00:10	7.738E-01	3.934E-01	1.266E+00	9.577E-03	5.883E-01	3.320E-04	9.728E-03	8.232E-03	3.658E-05
00:20	8.307E-01	4.016E-01	1.352E+00	9.025E-03	6.211E-01	3.048E-04	1.045E-02	8.841E-03	3.193E-05
00:30	8.863E-01	4.076E-01	1.435E+00	8.454E-03	6.517E-01	2.811E-04	1.116E-02	9.439E-03	2.770E-05
00:40	9.408E-01	4.116E-01	1.516E+00	7.879E-03	6.804E-01	2.602E-04	1.185E-02	1.003E-02	2.390E-05
00:50	9.941E-01	4.137E-01	1.594E+00	7.309E-03	7.071E-01	2.417E-04	1.253E-02	1.060E-02	2.054E-05
01:00	1.046E+00	4.142E-01	1.670E+00	6.754E-03	7.320E-01	2.251E-04	1.319E-02	1.116E-02	1.758E-05
01:10	1.098E+00	4.133E-01	1.743E+00	6.220E-03	7.551E-01	2.102E-04	1.385E-02	1.172E-02	1.499E-05
01:20	1.148E+00	4.111E-01	1.814E+00	5.710E-03	7.765E-01	1.966E-04	1.449E-02	1.226E-02	1.274E-05
01:30	1.197E+00	4.077E-01	1.882E+00	5.227E-03	7.963E-01	1.841E-04	1.511E-02	1.279E-02	1.080E-05
01:40	1.245E+00	4.034E-01	1.948E+00	4.773E-03	8.146E-01	1.726E-04	1.573E-02	1.331E-02	9.138E-06
01:50	1.292E+00	3.982E-01	2.012E+00	4.349E-03	8.314E-01	1.619E-04	1.633E-02	1.382E-02	7.710E-06
02:00	1.338E+00	3.923E-01	2.073E+00	3.954E-03	8.468E-01	1.521E-04	1.693E-02	1.432E-02	6.492E-06
02:10	1.383E+00	3.858E-01	2.132E+00	3.588E-03	8.609E-01	1.429E-04	1.751E-02	1.481E-02	5.457E-06
02:20	1.427E+00	3.787E-01	2.190E+00	3.251E-03	8.737E-01	1.343E-04	1.808E-02	1.530E-02	4.578E-06
02:30	1.470E+00	3.711E-01	2.245E+00	2.940E-03	8.853E-01	1.262E-04	1.863E-02	1.577E-02	3.835E-06
02:40	1.512E+00	3.632E-01	2.298E+00	2.656E-03	8.958E-01	1.187E-04	1.918E-02	1.623E-02	3.208E-06
02:50	1.554E+00	3.549E-01	2.350E+00	2.395E-03	9.051E-01	1.116E-04	1.972E-02	1.669E-02	2.680E-06
03:00	1.594E+00	3.464E-01	2.399E+00	2.158E-03	9.134E-01	1.050E-04	2.024E-02	1.713E-02	2.236E-06

TIME	SPING		Monitor		Data	
	Noble Gas Ci/sec	Noble Gas uCi/cc	Iodine Ci/sec	Iodine uCi/cc	Partic. Ci/sec	Partic. uCi/cc
14:00						
14:10						
14:20						
14:30						
14:40						
14:50						
15:00						
15:10						
15:20						
15:30						
15:40						
15:50						
16:00						
16:10						
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16:40						
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17:10						
17:20						
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20:30						
20:40						
20:50						
21:00						
21:10						
21:20						
21:30						
21:40						
21:50						
22:00						
22:10						
22:20						
22:30						
22:40						

TIME	SPING		Monitor		Data	
	Noble Gas Ci/sec	Noble Gas uCi/cc	Iodine Ci/sec	Iodine uCi/cc	Partic. Ci/sec	Partic. uCi/cc
22:50	1.540E+00	5.438E-02	1.682E-04	5.940E-06	1.050E-06	3.709E-08
23:00	1.404E+01	4.959E-01	3.630E-04	1.282E-05	2.188E-06	7.728E-08
23:10	2.673E+01	9.439E-01	5.679E-04	2.006E-05	3.351E-06	1.183E-07
23:20	3.917E+01	1.383E+00	7.721E-04	2.726E-05	4.503E-06	1.590E-07
23:30	5.109E+01	1.804E+00	9.687E-04	3.421E-05	5.623E-06	1.986E-07
23:40	6.234E+01	2.202E+00	1.154E-03	4.074E-05	6.699E-06	2.366E-07
23:50	7.283E+01	2.572E+00	1.325E-03	4.679E-05	7.723E-06	2.727E-07
24:00	8.253E+01	2.914E+00	1.482E-03	5.233E-05	8.689E-06	3.069E-07
00:10	9.143E+01	3.229E+00	1.624E-03	5.734E-05	9.595E-06	3.389E-07
00:20	9.956E+01	3.516E+00	1.751E-03	6.185E-05	1.044E-05	3.687E-07
00:30	1.069E+02	3.777E+00	1.865E-03	6.587E-05	1.123E-05	3.965E-07
00:40	1.136E+02	4.013E+00	1.966E-03	6.944E-05	1.195E-05	4.222E-07
00:50	1.197E+02	4.226E+00	2.056E-03	7.259E-05	1.263E-05	4.459E-07
01:00	1.251E+02	4.418E+00	2.134E-03	7.536E-05	1.325E-05	4.678E-07
01:10	1.300E+02	4.591E+00	2.202E-03	7.778E-05	1.381E-05	4.879E-07
01:20	1.344E+02	4.745E+00	2.262E-03	7.988E-05	1.434E-05	5.063E-07
01:30	9.800E+01	3.461E+00	1.643E-03	5.804E-05	1.051E-05	3.713E-07
01:40	7.148E+01	2.524E+00	1.194E-03	4.218E-05	7.715E-06	2.724E-07
01:50	5.214E+01	1.841E+00	8.682E-04	3.066E-05	5.663E-06	2.000E-07
02:00	3.804E+01	1.343E+00	6.313E-04	2.229E-05	4.159E-06	1.469E-07
02:10	2.775E+01	9.799E-01	4.591E-04	1.621E-05	3.055E-06	1.079E-07
02:20	2.024E+01	7.149E-01	3.339E-04	1.179E-05	2.244E-06	7.925E-08
02:30	1.477E+01	5.216E-01	2.429E-04	8.580E-06	1.649E-06	5.822E-08
02:40	1.078E+01	3.806E-01	1.768E-04	6.243E-06	1.211E-06	4.278E-08
02:50	7.865E+00	2.777E-01	1.287E-04	4.544E-06	8.901E-07	3.143E-08
03:00	5.739E+00	2.027E-01	9.366E-05	3.307E-06	6.541E-07	2.310E-08

	RWA VENT		uCi/sec						
ME	Kr-85m	Kr-85	Kr-87	Kr-88	Xe-131m	Xe-133m	Xe-133	Xe-135	
22:50	2.927E-02	1.495E-02	7.420E-03	4.646E-02	2.097E-03	1.470E-02	6.341E-01	7.906E-01	
23:00	6.258E-02	1.393E-01	6.310E-02	4.153E-01	1.953E-02	1.369E-01	5.913E+00	7.292E+00	
23:10	9.693E-02	2.672E-01	1.105E-01	7.645E-01	3.746E-02	2.625E-01	1.135E+01	1.384E+01	
23:20	1.304E-01	3.944E-01	1.488E-01	1.083E+00	5.528E-02	3.872E-01	1.676E+01	2.021E+01	
23:30	1.619E-01	5.179E-01	1.784E-01	1.364E+00	7.258E-02	5.082E-01	2.203E+01	2.626E+01	
23:40	1.907E-01	6.359E-01	2.000E-01	1.607E+00	8.913E-02	6.239E-01	2.707E+01	3.192E+01	
23:50	2.165E-01	7.476E-01	2.146E-01	1.813E+00	1.048E-01	7.333E-01	3.185E+01	3.715E+01	
24:00	2.393E-01	8.523E-01	2.233E-01	1.984E+00	1.194E-01	8.359E-01	3.635E+01	4.192E+01	
00:10	2.590E-01	9.498E-01	2.272E-01	2.121E+00	1.331E-01	9.314E-01	4.055E+01	4.625E+01	
00:20	2.759E-01	1.040E+00	2.271E-01	2.230E+00	1.458E-01	1.020E+00	4.446E+01	5.015E+01	
00:30	2.902E-01	1.124E+00	2.240E-01	2.312E+00	1.575E-01	1.102E+00	4.809E+01	5.365E+01	
00:40	3.019E-01	1.201E+00	2.185E-01	2.370E+00	1.683E-01	1.178E+00	5.144E+01	5.676E+01	
00:50	3.115E-01	1.272E+00	2.112E-01	2.409E+00	1.783E-01	1.247E+00	5.454E+01	5.951E+01	
01:00	3.190E-01	1.337E+00	2.027E-01	2.430E+00	1.874E-01	1.311E+00	5.739E+01	6.194E+01	
01:10	3.247E-01	1.397E+00	1.933E-01	2.436E+00	1.957E-01	1.369E+00	6.002E+01	6.406E+01	
01:20	3.288E-01	1.451E+00	1.833E-01	2.429E+00	2.034E-01	1.423E+00	6.244E+01	6.591E+01	
01:30	2.355E-01	1.067E+00	1.230E-01	1.713E+00	1.494E-01	1.043E+00	4.584E+01	4.783E+01	
01:40	1.687E-01	7.839E-01	8.250E-02	1.208E+00	1.098E-01	7.651E-01	3.366E+01	3.471E+01	
01:50	1.208E-01	5.760E-01	5.534E-02	8.516E-01	8.062E-02	5.610E-01	2.471E+01	2.518E+01	
02:00	8.652E-02	4.233E-01	3.713E-02	6.005E-01	5.922E-02	4.114E-01	1.814E+01	1.828E+01	
02:10	6.197E-02	3.111E-01	2.490E-02	4.235E-01	4.350E-02	3.017E-01	1.332E+01	1.326E+01	
02:20	4.438E-02	2.286E-01	1.671E-02	2.986E-01	3.196E-02	2.212E-01	9.780E+00	9.624E+00	
02:30	3.179E-02	1.680E-01	1.121E-02	2.106E-01	2.347E-02	1.622E-01	7.180E+00	6.984E+00	
02:40	2.277E-02	1.234E-01	7.518E-03	1.485E-01	1.724E-02	1.190E-01	5.272E+00	5.068E+00	
02:50	1.631E-02	9.072E-02	5.043E-03	1.047E-01	1.267E-02	8.723E-02	3.870E+00	3.677E+00	
03:00	1.168E-02	6.667E-02	3.383E-03	7.384E-02	9.304E-03	6.397E-02	2.842E+00	2.669E+00	

(uCi/sec)

[illegible]

	4E	I-131	I-132	I-133	I-134	I-135	Rb-88	Cs-134	Cs-137	Cr-138
22:50	3.738E-05	3.133E-05	6.422E-05	1.701E-06	3.357E-05	1.737E-07	4.672E-07	3.953E-07	1.400E-08	
23:00	8.196E-05	6.534E-05	1.401E-04	3.274E-06	7.238E-05	2.713E-07	1.025E-06	8.672E-07	2.495E-08	
23:10	1.302E-04	9.871E-05	2.214E-04	4.565E-06	1.131E-04	3.117E-07	1.629E-06	1.378E-06	3.222E-08	
23:20	1.796E-04	1.295E-04	3.040E-04	5.529E-06	1.534E-04	3.157E-07	2.248E-06	1.902E-06	3.614E-08	
23:30	2.286E-04	1.568E-04	3.850E-04	6.178E-06	1.920E-04	2.995E-07	2.863E-06	2.423E-06	3.740E-08	
23:40	2.761E-04	1.802E-04	4.628E-04	6.551E-06	2.281E-04	2.741E-07	3.460E-06	2.928E-06	3.673E-08	
23:50	3.214E-04	1.996E-04	5.362E-04	6.696E-06	2.612E-04	2.458E-07	4.031E-06	3.411E-06	3.477E-08	
24:00	3.643E-04	2.151E-04	6.046E-04	6.662E-06	2.911E-04	2.182E-07	4.571E-06	3.868E-06	3.204E-08	
00:10	4.044E-04	2.272E-04	6.679E-04	6.493E-06	3.178E-04	1.929E-07	5.077E-06	4.296E-06	2.391E-08	
00:20	4.417E-04	2.360E-04	7.260E-04	6.226E-06	3.414E-04	1.706E-07	5.549E-06	4.696E-06	2.568E-08	
00:30	4.762E-04	2.421E-04	7.789E-04	5.894E-06	3.621E-04	1.513E-07	5.987E-06	5.066E-06	2.251E-08	
00:40	5.081E-04	2.457E-04	8.270E-04	5.521E-06	3.799E-04	1.347E-07	6.392E-06	5.409E-06	1.953E-08	
00:50	5.375E-04	2.472E-04	8.705E-04	5.127E-06	3.952E-04	1.204E-07	6.765E-06	5.724E-06	1.680E-08	
01:00	5.644E-04	2.469E-04	9.097E-04	4.727E-06	4.082E-04	1.082E-07	7.108E-06	6.015E-06	1.434E-08	
01:10	5.891E-04	2.452E-04	9.448E-04	4.331E-06	4.190E-04	9.758E-08	7.423E-06	6.282E-06	1.217E-08	
01:20	6.117E-04	2.421E-04	9.762E-04	3.948E-06	4.279E-04	8.838E-08	7.712E-06	6.526E-06	1.027E-08	
01:30	4.492E-04	1.692E-04	7.134E-04	2.546E-06	3.091E-04	4.400E-08	5.667E-06	4.796E-06	6.135E-09	
01:40	3.299E-04	1.182E-04	5.214E-04	1.641E-06	2.232E-04	2.190E-08	4.165E-06	3.524E-06	3.664E-09	
01:50	2.423E-04	8.256E-05	3.811E-04	1.058E-06	1.612E-04	1.090E-08	3.061E-06	2.590E-06	2.188E-09	
02:00	1.780E-04	5.768E-05	2.785E-04	6.824E-07	1.165E-04	5.429E-09	2.249E-06	1.903E-06	1.306E-09	
02:10	1.307E-04	4.030E-05	2.035E-04	4.400E-07	8.413E-05	2.703E-09	1.653E-06	1.399E-06	7.801E-10	
02:20	9.599E-05	2.815E-05	1.488E-04	2.837E-07	6.077E-05	1.346E-09	1.215E-06	1.028E-06	4.659E-10	
02:30	7.050E-05	1.967E-05	1.087E-04	1.829E-07	4.389E-05	6.698E-10	8.925E-07	7.553E-07	2.782E-10	
02:40	5.177E-05	1.374E-05	7.945E-05	1.179E-07	3.170E-05	3.335E-10	6.559E-07	5.550E-07	1.661E-10	
02:50	3.802E-05	9.599E-06	5.807E-05	7.605E-08	2.290E-05	1.660E-10	4.820E-07	4.079E-07	9.920E-11	
03:00	2.793E-05	6.706E-06	4.244E-05	4.904E-08	1.654E-05	8.265E-11	3.542E-07	2.997E-07	5.923E-11	

Scenerio 85

Aux Air 317'

(uCi/cc)

ME	AUX AIR Kr-85m	Kr-85	Kr-87	Kr-88	Xe-131m	Xe-133m	Xe-133	Xe-135
14:00								
14:10								
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22:40	3.264E-02	1.668E-02	8.274E-03	5.181E-02	2.338E-03	1.639E-02	7.071E-01	8.817E-01

AUX AIR

IE	Kr-85m	Kr-85	Kr-87	Kr-88	Xe-131m	Xe-133m	Xe-133	Xe-135
22:50	6.979E-02	1.554E-01	7.036E-02	4.632E-01	2.178E-02	1.527E-01	6.595E+00	8.132E+00
23:00	1.081E-01	2.980E-01	1.232E-01	8.526E-01	4.178E-02	2.927E-01	1.266E+01	1.543E+01
23:10	1.454E-01	4.398E-01	1.660E-01	1.207E+00	6.165E-02	4.318E-01	1.869E+01	2.254E+01
23:20	1.805E-01	5.775E-01	1.989E-01	1.521E+00	8.094E-02	5.668E-01	2.456E+01	2.929E+01
23:30	2.126E-01	7.092E-01	2.230E-01	1.793E+00	9.940E-02	6.958E-01	3.019E+01	3.560E+01
23:40	2.414E-01	8.337E-01	2.393E-01	2.022E+00	1.168E-01	8.178E-01	3.552E+01	4.143E+01
23:50	2.668E-01	9.504E-01	2.490E-01	2.212E+00	1.332E-01	9.321E-01	4.054E+01	4.675E+01
24:00	2.889E-01	1.059E+00	2.533E-01	2.366E+00	1.484E-01	1.039E+00	4.522E+01	5.158E+01
00:10	3.077E-01	1.160E+00	2.533E-01	2.486E+00	1.626E-01	1.138E+00	4.958E+01	5.593E+01
00:20	3.236E-01	1.253E+00	2.498E-01	2.578E+00	1.757E-01	1.229E+00	5.363E+01	5.983E+01
00:30	3.367E-01	1.339E+00	2.437E-01	2.643E+00	1.877E-01	1.313E+00	5.737E+01	6.330E+01
00:40	3.473E-01	1.419E+00	2.356E-01	2.686E+00	1.988E-01	1.391E+00	6.082E+01	6.637E+01
00:50	3.557E-01	1.491E+00	2.260E-01	2.710E+00	2.090E-01	1.462E+00	6.400E+01	6.907E+01
01:00	3.621E-01	1.558E+00	2.156E-01	2.716E+00	2.183E-01	1.527E+00	6.693E+01	7.144E+01
01:10	3.666E-01	1.619E+00	2.045E-01	2.708E+00	2.268E-01	1.587E+00	6.963E+01	7.350E+01
01:20	2.626E-01	1.190E+00	1.372E-01	1.910E+00	1.666E-01	1.163E+00	5.112E+01	5.333E+01
01:30	1.881E-01	8.741E-01	9.201E-02	1.347E+00	1.224E-01	8.532E-01	3.753E+01	3.870E+01
01:40	1.347E-01	6.424E-01	6.172E-02	9.497E-01	8.991E-02	6.256E-01	2.756E+01	2.809E+01
01:50	9.649E-02	4.721E-01	4.140E-02	6.697E-01	6.604E-02	4.588E-01	2.023E+01	2.038E+01
02:00	6.911E-02	3.469E-01	2.777E-02	4.722E-01	4.851E-02	3.364E-01	1.485E+01	1.479E+01
02:10	4.950E-02	2.549E-01	1.863E-02	3.330E-01	3.564E-02	2.467E-01	1.091E+01	1.073E+01
02:20	3.545E-02	1.873E-01	1.250E-02	2.348E-01	2.618E-02	1.809E-01	8.007E+00	7.788E+00
02:30	2.539E-02	1.377E-01	8.384E-03	1.656E-01	1.923E-02	1.327E-01	5.879E+00	5.651E+00
02:40	1.819E-02	1.012E-01	5.624E-03	1.168E-01	1.413E-02	9.728E-02	4.316E+00	4.101E+00
22:50	1.303E-02	7.434E-02	3.772E-03	8.234E-02	1.038E-02	7.134E-02	3.169E+00	2.976E+00
23:00	9.330E-03	5.463E-02	2.531E-03	5.806E-02	7.622E-03	5.231E-02	2.327E+00	2.160E+00

Scenerio 85

Aux Air 317'

(uCi/cc)

ME	I-131	I-132	I-133	I-134	I-135	Rb-88	Cs-134	Cs-137	Cs-138
14:00									
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22:40	3.961E-03	3.319E-03	6.803E-03	1.802E-04	3.556E-03	1.840E-05	4.949E-05	4.188E-05	1.483E-06

ME	I-131	I-132	I-133	I-134	I-135	Rb-88	Cs-134	Cs-137	Cs-138
22:50	8.683E-03	6.922E-03	1.484E-02	3.468E-04	7.668E-03	2.874E-05	1.086E-04	9.187E-05	2.643E-06
23:00	1.379E-02	1.046E-02	2.346E-02	4.836E-04	1.198E-02	3.302E-05	1.725E-04	1.460E-04	3.413E-06
23:10	1.903E-02	1.372E-02	3.221E-02	5.857E-04	1.625E-02	3.344E-05	2.382E-04	2.016E-04	3.829E-06
23:20	2.422E-02	1.662E-02	4.079E-02	6.545E-04	2.034E-02	3.174E-05	3.034E-04	2.567E-04	3.962E-06
23:30	2.925E-02	1.909E-02	4.903E-02	6.941E-04	2.417E-02	2.904E-05	3.666E-04	3.102E-04	3.891E-06
23:40	3.405E-02	2.114E-02	5.680E-02	7.094E-04	2.767E-02	2.604E-05	4.271E-04	3.614E-04	3.684E-06
23:50	3.859E-02	2.279E-02	6.405E-02	7.058E-04	3.084E-02	2.311E-05	4.843E-04	4.098E-04	3.394E-06
24:00	4.284E-02	2.407E-02	7.076E-02	6.879E-04	3.367E-02	2.044E-05	5.379E-04	4.552E-04	3.063E-06
00:10	4.679E-02	2.500E-02	7.691E-02	6.596E-04	3.617E-02	1.807E-05	5.879E-04	4.975E-04	2.721E-06
00:20	5.046E-02	2.565E-02	8.252E-02	6.244E-04	3.836E-02	1.603E-05	6.343E-04	5.367E-04	2.385E-06
00:30	5.383E-02	2.603E-02	8.762E-02	5.849E-04	4.025E-02	1.427E-05	6.772E-04	5.730E-04	2.069E-06
00:40	5.694E-02	2.619E-02	9.223E-02	5.432E-04	4.187E-02	1.276E-05	7.167E-04	6.065E-04	1.780E-06
00:50	5.980E-02	2.616E-02	9.638E-02	5.008E-04	4.325E-02	1.146E-05	7.531E-04	6.372E-04	1.519E-06
01:00	6.241E-02	2.597E-02	1.001E-01	4.589E-04	4.439E-02	1.034E-05	7.864E-04	6.655E-04	1.289E-06
01:10	6.480E-02	2.565E-02	1.034E-01	4.183E-04	4.533E-02	9.363E-06	8.171E-04	6.914E-04	1.089E-06
01:20	6.759E-02	1.792E-02	7.559E-02	2.697E-04	3.274E-02	4.661E-06	6.004E-04	5.081E-04	6.500E-07
01:30	3.495E-02	1.252E-02	5.524E-02	1.739E-04	2.365E-02	2.321E-06	4.412E-04	3.734E-04	3.882E-07
01:40	2.567E-02	8.747E-03	4.037E-02	1.121E-04	1.708E-02	1.155E-06	3.242E-04	2.744E-04	2.318E-07
01:50	1.885E-02	6.111E-03	2.950E-02	7.230E-05	1.234E-02	5.751E-07	2.383E-04	2.016E-04	1.384E-07
02:00	1.385E-02	4.269E-03	2.156E-02	4.662E-05	8.913E-03	2.863E-07	1.751E-04	1.482E-04	8.265E-08
02:10	1.017E-02	2.982E-03	1.576E-02	3.006E-05	6.438E-03	1.425E-07	1.287E-04	1.089E-04	4.935E-08
02:20	7.469E-03	2.084E-03	1.152E-02	1.938E-05	4.650E-03	7.097E-08	9.456E-05	8.002E-05	2.947E-08
02:30	5.485E-03	1.456E-03	8.417E-03	1.250E-05	3.359E-03	3.533E-08	6.949E-05	5.880E-05	1.760E-08
02:40	4.028E-03	1.017E-03	6.152E-03	8.057E-06	2.426E-03	1.759E-08	5.106E-05	4.321E-05	1.051E-08
02:50	2.959E-03	7.104E-04	4.496E-03	5.195E-06	1.752E-03	8.756E-09	3.752E-05	3.175E-05	6.275E-09
03:00	2.173E-03	4.963E-04	3.286E-03	3.350E-06	1.266E-03	4.359E-09	2.758E-05	2.333E-05	3.747E-09

TIME	Kr-85m	Kr-85	Kr-87	Kr-88	Xe-131m	Xe-133m	Xe-133	Xe-135
14:00	5.032E-02		7.004E-02	7.864E-02		1.078E-02	5.836E-01	1.977E-01
14:10	5.017E-02		6.983E-02	7.841E-02		1.075E-02	5.819E-01	1.971E-01
14:20	5.003E-02		6.963E-02	7.818E-02		1.072E-02	5.802E-01	1.965E-01
14:30	4.988E-02		6.943E-02	7.795E-02		1.069E-02	5.785E-01	1.960E-01
14:40	4.973E-02		6.922E-02	7.772E-02		1.065E-02	5.768E-01	1.954E-01
14:50	4.959E-02		6.902E-02	7.749E-02		1.062E-02	5.751E-01	1.948E-01
15:00	4.944E-02		6.882E-02	7.727E-02		1.059E-02	5.734E-01	1.942E-01
15:10	4.930E-02		6.861E-02	7.704E-02		1.056E-02	5.717E-01	1.937E-01
15:20	4.915E-02		6.841E-02	7.681E-02		1.053E-02	5.700E-01	1.931E-01
15:30	4.901E-02		6.821E-02	7.659E-02		1.050E-02	5.684E-01	1.925E-01
15:40	4.886E-02		6.801E-02	7.636E-02		1.047E-02	5.667E-01	1.920E-01
15:50	4.872E-02		6.781E-02	7.614E-02		1.044E-02	5.650E-01	1.914E-01
16:00	4.858E-02		6.761E-02	7.591E-02		1.041E-02	5.634E-01	1.908E-01
16:10	4.843E-02		6.741E-02	7.569E-02		1.038E-02	5.617E-01	1.903E-01
16:20	4.829E-02		6.722E-02	7.547E-02		1.035E-02	5.601E-01	1.897E-01
16:30	4.815E-02		6.702E-02	7.525E-02		1.032E-02	5.584E-01	1.892E-01
16:40	4.801E-02		6.682E-02	7.503E-02		1.028E-02	5.568E-01	1.886E-01
16:50	4.787E-02		6.663E-02	7.481E-02		1.025E-02	5.552E-01	1.881E-01
17:00	4.773E-02		6.643E-02	7.459E-02		1.022E-02	5.535E-01	1.875E-01
17:10	4.759E-02		6.624E-02	7.437E-02		1.019E-02	5.519E-01	1.870E-01
17:20	4.745E-02		6.604E-02	7.415E-02		1.016E-02	5.503E-01	1.864E-01
17:30	4.731E-02		6.585E-02	7.393E-02		1.013E-02	5.487E-01	1.859E-01
17:40	4.717E-02		6.565E-02	7.372E-02		1.010E-02	5.471E-01	1.853E-01
17:50	4.703E-02		6.546E-02	7.350E-02		1.008E-02	5.455E-01	1.848E-01
18:00	4.689E-02		6.527E-02	7.328E-02		1.005E-02	5.438E-01	1.842E-01
18:10	4.675E-02		6.508E-02	7.307E-02		1.002E-02	5.423E-01	1.837E-01
18:20	4.662E-02		6.489E-02	7.285E-02		9.987E-03	5.407E-01	1.832E-01
18:30	4.648E-02		6.470E-02	7.264E-02		9.958E-03	5.391E-01	1.826E-01
18:40	4.634E-02		6.451E-02	7.243E-02		9.928E-03	5.375E-01	1.821E-01
18:50	4.621E-02		6.432E-02	7.221E-02		9.899E-03	5.359E-01	1.815E-01
19:00	4.607E-02		6.413E-02	7.200E-02		9.870E-03	5.343E-01	1.810E-01
19:10	4.594E-02		6.394E-02	7.179E-02		9.841E-03	5.328E-01	1.805E-01
19:20	4.580E-02		6.375E-02	7.158E-02		9.812E-03	5.312E-01	1.800E-01
19:30	4.567E-02		6.357E-02	7.137E-02		9.783E-03	5.297E-01	1.794E-01
19:40	4.430E-02		5.775E-02	6.816E-02		9.717E-03	5.267E-01	1.824E-01
19:50	4.297E-02		5.247E-02	6.510E-02		9.650E-03	5.237E-01	1.855E-01
20:00	4.169E-02		4.767E-02	6.217E-02		9.584E-03	5.208E-01	1.886E-01
20:10	4.044E-02		4.331E-02	5.938E-02		9.519E-03	5.179E-01	1.917E-01
20:20	3.923E-02		3.935E-02	5.671E-02		9.454E-03	5.149E-01	1.949E-01
20:30	3.806E-02		3.575E-02	5.416E-02		9.389E-03	5.121E-01	1.982E-01
20:40	3.692E-02		3.248E-02	5.173E-02		9.325E-03	5.092E-01	2.015E-01
20:50	3.581E-02		2.951E-02	4.940E-02		9.261E-03	5.063E-01	2.049E-01
21:00	3.474E-02		2.681E-02	4.718E-02		9.198E-03	5.035E-01	2.083E-01
21:10	3.370E-02		2.436E-02	4.506E-02		9.135E-03	5.006E-01	2.118E-01
21:20	3.269E-02		2.213E-02	4.304E-02		9.073E-03	4.978E-01	2.153E-01
21:30	3.171E-02		2.010E-02	4.110E-02		9.011E-03	4.950E-01	2.189E-01
21:40	9.837E+01	4.534E+01	3.242E+01	1.662E+02	6.364E+00	4.482E+01	1.924E+03	2.511E+03
21:50	3.816E+02	1.805E+02	1.177E+02	6.347E+02	2.533E+01	1.782E+02	7.661E+03	9.887E+03
22:00	1.205E+03	5.851E+02	3.484E+02	1.974E+03	8.208E+01	5.769E+02	2.483E+04	3.167E+04
22:10	6.888E+03	3.430E+03	1.864E+03	1.111E+04	4.810E+02	3.373E+03	1.453E+05	1.832E+05
22:20	8.181E+03	4.180E+03	2.074E+03	1.299E+04	5.863E+02	4.117E+03	1.776E+05	2.215E+05
22:30	8.338E+03	4.371E+03	1.979E+03	1.303E+04	6.133E+02	4.314E+03	1.863E+05	2.300E+05
22:40	7.969E+03	4.286E+03	1.772E+03	1.226E+04	6.017E+02	4.242E+03	1.834E+05	2.241E+05
22:50	7.616E+03	4.203E+03	1.586E+03	1.154E+04	5.903E+02	4.172E+03	1.805E+05	2.184E+05
23:00	7.279E+03	4.121E+03	1.420E+03	1.086E+04	5.792E+02	4.102E+03	1.777E+05	2.128E+05

Scenerio 85 Reactor Coolant (uCi/ml)

TIME	Kr-85m	Kr-85	Kr-87	Kr-88	Xe-131m	Xe-133m	Xe-133	Xe-135
23:10	6.956E+03	4.041E+03	1.271E+03	1.021E+04	5.682E+02	4.033E+03	1.749E+05	2.073E+05
23:20	6.648E+03	3.963E+03	1.137E+03	9.612E+03	5.575E+02	3.965E+03	1.721E+05	2.019E+05
1:30	6.354E+03	3.886E+03	1.018E+03	9.044E+03	5.469E+02	3.899E+03	1.694E+05	1.967E+05
23:40	6.073E+03	3.810E+03	9.113E+02	8.510E+03	5.366E+02	3.833E+03	1.667E+05	1.916E+05
23:50	5.804E+03	3.736E+03	8.157E+02	8.007E+03	5.264E+02	3.768E+03	1.641E+05	1.866E+05
24:00	5.547E+03	3.664E+03	7.301E+02	7.534E+03	5.165E+02	3.704E+03	1.614E+05	1.818E+05
00:10	5.301E+03	3.592E+03	6.536E+02	7.089E+03	5.067E+02	3.641E+03	1.589E+05	1.770E+05
00:20	5.067E+03	3.523E+03	5.850E+02	6.671E+03	4.971E+02	3.579E+03	1.563E+05	1.724E+05
00:30	4.842E+03	3.454E+03	5.236E+02	6.277E+03	4.877E+02	3.518E+03	1.538E+05	1.678E+05
00:40	4.628E+03	3.387E+03	4.687E+02	5.906E+03	4.785E+02	3.458E+03	1.513E+05	1.634E+05
00:50	4.423E+03	3.321E+03	4.195E+02	5.557E+03	4.694E+02	3.399E+03	1.489E+05	1.591E+05
01:00	4.227E+03	3.257E+03	3.755E+02	5.229E+03	4.606E+02	3.341E+03	1.465E+05	1.549E+05
01:10	4.040E+03	3.194E+03	3.361E+02	4.920E+03	4.518E+02	3.283E+03	1.441E+05	1.508E+05
01:20	3.861E+03	3.132E+03	3.009E+02	4.630E+03	4.433E+02	3.227E+03	1.418E+05	1.468E+05
01:30	3.690E+03	3.071E+03	2.678E+02	4.356E+03	4.349E+02	3.171E+03	1.394E+05	1.429E+05
01:40	3.527E+03	3.011E+03	2.411E+02	4.099E+03	4.267E+02	3.116E+03	1.372E+05	1.391E+05
01:50	3.371E+03	2.953E+03	2.158E+02	3.857E+03	4.186E+02	3.062E+03	1.349E+05	1.354E+05
02:00	3.221E+03	2.895E+03	1.931E+02	3.629E+03	4.107E+02	3.009E+03	1.327E+05	1.318E+05
02:10	3.079E+03	2.839E+03	1.729E+02	3.415E+03	4.029E+02	2.957E+03	1.305E+05	1.283E+05
02:20	2.942E+03	2.784E+03	1.548E+02	3.213E+03	3.953E+02	2.905E+03	1.284E+05	1.248E+05
02:30	2.812E+03	2.730E+03	1.385E+02	3.024E+03	3.878E+02	2.854E+03	1.263E+05	1.215E+05
02:40	2.688E+03	2.677E+03	1.240E+02	2.845E+03	3.804E+02	2.805E+03	1.242E+05	1.182E+05
02:50	2.569E+03	2.625E+03	1.110E+02	2.677E+03	3.732E+02	2.755E+03	1.221E+05	1.150E+05
03:00	2.455E+03	2.574E+03	9.934E+01	2.519E+03	3.662E+02	2.707E+03	1.201E+05	1.119E+05

TIME	I-131	I-132	I-133	I-134	I-135	Rb-88	Cs-134	Cs-137	Cs-138
14:00	5.417E-02	1.846E-01	1.738E-01	2.476E-01	1.945E-01	2.421E-01	3.472E-03	6.156E-03	3.152E-01
14:10	5.401E-02	1.841E-01	1.733E-01	2.469E-01	1.939E-01	2.414E-01	3.462E-03	6.138E-03	3.143E-01
14:20	5.385E-02	1.835E-01	1.728E-01	2.461E-01	1.934E-01	2.407E-01	3.452E-03	6.120E-03	3.134E-01
14:30	5.369E-02	1.830E-01	1.723E-01	2.454E-01	1.928E-01	2.400E-01	3.442E-03	6.102E-03	3.124E-01
14:40	5.354E-02	1.824E-01	1.718E-01	2.447E-01	1.922E-01	2.393E-01	3.431E-03	6.084E-03	3.115E-01
14:50	5.338E-02	1.819E-01	1.713E-01	2.440E-01	1.917E-01	2.386E-01	3.421E-03	6.066E-03	3.106E-01
15:00	5.322E-02	1.814E-01	1.708E-01	2.433E-01	1.911E-01	2.379E-01	3.411E-03	6.048E-03	3.097E-01
15:10	5.307E-02	1.808E-01	1.703E-01	2.426E-01	1.905E-01	2.372E-01	3.401E-03	6.031E-03	3.088E-01
15:20	5.291E-02	1.803E-01	1.698E-01	2.418E-01	1.900E-01	2.365E-01	3.391E-03	6.013E-03	3.079E-01
15:30	5.276E-02	1.798E-01	1.693E-01	2.411E-01	1.894E-01	2.358E-01	3.381E-03	5.995E-03	3.070E-01
15:40	5.260E-02	1.793E-01	1.688E-01	2.404E-01	1.889E-01	2.351E-01	3.371E-03	5.978E-03	3.061E-01
15:50	5.245E-02	1.787E-01	1.683E-01	2.397E-01	1.883E-01	2.344E-01	3.362E-03	5.960E-03	3.052E-01
16:00	5.229E-02	1.782E-01	1.678E-01	2.390E-01	1.878E-01	2.337E-01	3.352E-03	5.943E-03	3.043E-01
16:10	5.214E-02	1.777E-01	1.673E-01	2.383E-01	1.872E-01	2.330E-01	3.342E-03	5.925E-03	3.034E-01
16:20	5.199E-02	1.772E-01	1.668E-01	2.376E-01	1.867E-01	2.323E-01	3.332E-03	5.908E-03	3.025E-01
16:30	5.183E-02	1.766E-01	1.663E-01	2.369E-01	1.861E-01	2.317E-01	3.322E-03	5.890E-03	3.016E-01
16:40	5.168E-02	1.761E-01	1.658E-01	2.362E-01	1.856E-01	2.310E-01	3.312E-03	5.873E-03	3.007E-01
16:50	5.153E-02	1.756E-01	1.653E-01	2.355E-01	1.850E-01	2.303E-01	3.303E-03	5.856E-03	2.998E-01
17:00	5.138E-02	1.751E-01	1.648E-01	2.348E-01	1.845E-01	2.296E-01	3.293E-03	5.839E-03	2.990E-01
17:10	5.123E-02	1.746E-01	1.644E-01	2.342E-01	1.839E-01	2.290E-01	3.283E-03	5.822E-03	2.981E-01
17:20	5.108E-02	1.741E-01	1.639E-01	2.335E-01	1.834E-01	2.283E-01	3.274E-03	5.805E-03	2.972E-01
17:30	5.093E-02	1.736E-01	1.634E-01	2.328E-01	1.829E-01	2.276E-01	3.264E-03	5.788E-03	2.963E-01
17:40	5.078E-02	1.730E-01	1.629E-01	2.321E-01	1.823E-01	2.269E-01	3.255E-03	5.771E-03	2.955E-01
17:50	5.063E-02	1.725E-01	1.624E-01	2.314E-01	1.818E-01	2.263E-01	3.245E-03	5.754E-03	2.946E-01
18:00	5.048E-02	1.720E-01	1.620E-01	2.307E-01	1.813E-01	2.256E-01	3.236E-03	5.737E-03	2.937E-01
18:10	5.033E-02	1.715E-01	1.615E-01	2.301E-01	1.807E-01	2.249E-01	3.226E-03	5.720E-03	2.929E-01
18:20	5.018E-02	1.710E-01	1.610E-01	2.294E-01	1.802E-01	2.243E-01	3.217E-03	5.703E-03	2.920E-01
18:30	5.004E-02	1.705E-01	1.605E-01	2.287E-01	1.797E-01	2.236E-01	3.207E-03	5.686E-03	2.912E-01
18:40	4.989E-02	1.700E-01	1.601E-01	2.280E-01	1.791E-01	2.230E-01	3.198E-03	5.670E-03	2.903E-01
18:50	4.974E-02	1.695E-01	1.596E-01	2.274E-01	1.786E-01	2.223E-01	3.188E-03	5.653E-03	2.894E-01
19:00	4.960E-02	1.690E-01	1.591E-01	2.267E-01	1.781E-01	2.217E-01	3.179E-03	5.636E-03	2.886E-01
19:10	4.945E-02	1.685E-01	1.587E-01	2.260E-01	1.776E-01	2.210E-01	3.170E-03	5.620E-03	2.877E-01
19:20	4.931E-02	1.680E-01	1.582E-01	2.254E-01	1.770E-01	2.204E-01	3.160E-03	5.603E-03	2.869E-01
19:30	4.916E-02	1.675E-01	1.577E-01	2.247E-01	1.765E-01	2.197E-01	3.151E-03	5.587E-03	2.861E-01
19:40	4.890E-02	1.585E-01	1.561E-01	1.962E-01	1.727E-01	1.481E-01	3.136E-03	5.561E-03	2.314E-01
19:50	4.864E-02	1.500E-01	1.545E-01	1.714E-01	1.689E-01	9.989E-02	3.121E-03	5.534E-03	1.871E-01
20:00	4.838E-02	1.419E-01	1.530E-01	1.497E-01	1.653E-01	6.735E-02	3.107E-03	5.508E-03	1.513E-01
20:10	4.813E-02	1.343E-01	1.514E-01	1.307E-01	1.617E-01	4.541E-02	3.092E-03	5.482E-03	1.224E-01
20:20	4.787E-02	1.271E-01	1.499E-01	1.141E-01	1.582E-01	3.062E-02	3.077E-03	5.456E-03	9.898E-02
20:30	4.762E-02	1.202E-01	1.483E-01	9.966E-02	1.547E-01	2.065E-02	3.063E-03	5.431E-03	8.005E-02
20:40	4.736E-02	1.137E-01	1.468E-01	8.703E-02	1.514E-01	1.392E-02	3.048E-03	5.405E-03	6.474E-02
20:50	4.711E-02	1.076E-01	1.453E-01	7.600E-02	1.481E-01	9.387E-03	3.034E-03	5.380E-03	5.236E-02
21:00	4.686E-02	1.018E-01	1.439E-01	6.637E-02	1.449E-01	6.329E-03	3.020E-03	5.354E-03	4.235E-02
21:10	4.661E-02	9.635E-02	1.424E-01	5.796E-02	1.417E-01	4.268E-03	3.005E-03	5.329E-03	3.425E-02
21:20	4.637E-02	9.117E-02	1.410E-01	5.062E-02	1.386E-01	2.877E-03	2.991E-03	5.304E-03	2.770E-02
21:30	4.612E-02	8.626E-02	1.395E-01	4.420E-02	1.356E-01	1.940E-03	2.977E-03	5.279E-03	2.240E-02
21:40	9.716E+02	9.945E+02	1.702E+03	7.444E+01	9.325E+02	1.985E+02	1.211E+02	1.025E+02	8.339E+00
21:50	3.865E+03	3.763E+03	6.738E+03	2.599E+02	3.648E+03	5.420E+02	4.821E+02	4.080E+02	2.693E+01
22:00	1.252E+04	1.160E+04	2.172E+04	7.391E+02	1.162E+04	1.206E+03	1.563E+03	1.322E+03	7.091E+01
22:10	7.337E+04	6.464E+04	1.266E+05	3.802E+03	6.698E+04	4.768E+03	9.163E+03	7.754E+03	3.378E+02
22:20	8.935E+04	7.487E+04	1.535E+05	4.065E+03	8.022E+04	4.369E+03	1.117E+04	9.448E+03	3.345E+02
22:30	9.337E+04	7.443E+04	1.596E+05	3.729E+03	8.245E+04	3.597E+03	1.168E+04	9.879E+03	2.842E+02
22:40	9.150E+04	6.938E+04	1.556E+05	3.209E+03	7.947E+04	2.916E+03	1.145E+04	9.687E+03	2.264E+02
22:50	8.967E+04	6.468E+04	1.518E+05	2.761E+03	7.660E+04	2.433E+03	1.123E+04	9.499E+03	1.804E+02
23:00	8.788E+04	6.029E+04	1.480E+05	2.375E+03	7.382E+04	2.083E+03	1.101E+04	9.315E+03	1.438E+02

Scenerio 85 Reactor Coolant (uCi/ml)

TIME	I-131	I-132	I-133	I-134	I-135	Rb-88	Cs-134	Cs-137	Cs-138
23:10	8.612E+04	5.621E+04	1.443E+05	2.043E+03	7.115E+04	1.822E+03	1.079E+04	9.134E+03	1.146E+02
23:20	8.440E+04	5.240E+04	1.408E+05	1.758E+03	6.858E+04	1.623E+03	1.058E+04	8.956E+03	9.128E+01
1:30	8.271E+04	4.884E+04	1.373E+05	1.513E+03	6.610E+04	1.467E+03	1.038E+04	8.782E+03	7.273E+01
23:40	8.105E+04	4.553E+04	1.339E+05	1.301E+03	6.371E+04	1.340E+03	1.018E+04	8.612E+03	5.795E+01
23:50	7.943E+04	4.245E+04	1.306E+05	1.120E+03	6.140E+04	1.234E+03	9.979E+03	8.444E+03	4.618E+01
24:00	7.784E+04	3.957E+04	1.273E+05	9.633E+02	5.918E+04	1.143E+03	9.786E+03	8.280E+03	3.680E+01
00:10	7.628E+04	3.688E+04	1.242E+05	8.288E+02	5.704E+04	1.064E+03	9.595E+03	8.120E+03	2.932E+01
00:20	7.476E+04	3.438E+04	1.211E+05	7.131E+02	5.497E+04	9.935E+02	9.409E+03	7.962E+03	2.336E+01
00:30	7.326E+04	3.205E+04	1.181E+05	6.135E+02	5.298E+04	9.296E+02	9.226E+03	7.807E+03	1.861E+01
00:40	7.180E+04	2.988E+04	1.151E+05	5.279E+02	5.107E+04	8.712E+02	9.047E+03	7.656E+03	1.483E+01
00:50	7.036E+04	2.785E+04	1.123E+05	4.542E+02	4.922E+04	8.175E+02	8.871E+03	7.507E+03	1.182E+01
01:00	6.895E+04	2.597E+04	1.095E+05	3.907E+02	4.744E+04	7.677E+02	8.699E+03	7.361E+03	9.417E+00
01:10	6.757E+04	2.421E+04	1.068E+05	3.362E+02	4.572E+04	7.213E+02	8.530E+03	7.218E+03	7.504E+00
01:20	6.622E+04	2.256E+04	1.041E+05	2.892E+02	4.407E+04	6.781E+02	8.364E+03	7.078E+03	5.979E+00
01:30	6.490E+04	2.103E+04	1.016E+05	2.489E+02	4.247E+04	6.376E+02	8.202E+03	6.940E+03	4.764E+00
01:40	6.360E+04	1.961E+04	9.904E+04	2.141E+02	4.094E+04	5.996E+02	8.042E+03	6.806E+03	3.796E+00
01:50	6.232E+04	1.828E+04	9.659E+04	1.842E+02	3.946E+04	5.640E+02	7.886E+03	6.673E+03	3.025E+00
02:00	6.108E+04	1.704E+04	9.419E+04	1.585E+02	3.803E+04	5.306E+02	7.733E+03	6.544E+03	2.410E+00
02:10	5.986E+04	1.588E+04	9.185E+04	1.364E+02	3.665E+04	4.992E+02	7.583E+03	6.417E+03	1.920E+00
02:20	5.866E+04	1.481E+04	8.958E+04	1.173E+02	3.533E+04	4.696E+02	7.435E+03	6.292E+03	1.530E+00
02:30	5.748E+04	1.380E+04	8.735E+04	1.009E+02	3.405E+04	4.418E+02	7.291E+03	6.170E+03	1.219E+00
02:40	5.633E+04	1.287E+04	8.519E+04	8.684E+01	3.282E+04	4.157E+02	7.149E+03	6.050E+03	9.715E-01
02:50	5.521E+04	1.200E+04	8.308E+04	7.472E+01	3.163E+04	3.912E+02	7.010E+03	5.932E+03	7.741E-01
03:00	5.410E+04	1.118E+04	8.102E+04	6.428E+01	3.048E+04	3.680E+02	6.874E+03	5.817E+03	6.168E-01

Scenario 85 Pressurizer Gas Space (uCi/ml)

TIME	Kr-85m	Kr-85	Kr-87	Kr-88	Xe-131m	Xe-133m	Xe-133	Xe-135
14:00	3.170E-01		4.413E-01	4.954E-01		6.791E-02	3.677E+00	1.246E+00
14:10	3.161E-01		4.400E-01	4.940E-01		6.771E-02	3.666E+00	1.242E+00
14:20	3.152E-01		4.387E-01	4.925E-01		6.752E-02	3.655E+00	1.238E+00
14:30	3.142E-01		4.374E-01	4.911E-01		6.732E-02	3.644E+00	1.235E+00
14:40	3.133E-01		4.361E-01	4.896E-01		6.712E-02	3.634E+00	1.231E+00
14:50	3.124E-01		4.348E-01	4.882E-01		6.692E-02	3.623E+00	1.227E+00
15:00	3.115E-01		4.335E-01	4.868E-01		6.673E-02	3.612E+00	1.224E+00
15:10	3.106E-01		4.323E-01	4.853E-01		6.653E-02	3.602E+00	1.220E+00
15:20	3.096E-01		4.310E-01	4.839E-01		6.634E-02	3.591E+00	1.217E+00
15:30	3.087E-01		4.297E-01	4.825E-01		6.614E-02	3.581E+00	1.213E+00
15:40	3.078E-01		4.285E-01	4.811E-01		6.595E-02	3.570E+00	1.209E+00
15:50	3.069E-01		4.272E-01	4.797E-01		6.575E-02	3.560E+00	1.206E+00
16:00	3.060E-01		4.260E-01	4.783E-01		6.556E-02	3.549E+00	1.202E+00
16:10	3.051E-01		4.247E-01	4.769E-01		6.537E-02	3.539E+00	1.199E+00
16:20	3.042E-01		4.235E-01	4.755E-01		6.518E-02	3.528E+00	1.195E+00
16:30	3.033E-01		4.222E-01	4.741E-01		6.498E-02	3.518E+00	1.192E+00
16:40	3.025E-01		4.210E-01	4.727E-01		6.479E-02	3.508E+00	1.188E+00
16:50	3.016E-01		4.197E-01	4.713E-01		6.460E-02	3.497E+00	1.185E+00
17:00	3.007E-01		4.185E-01	4.699E-01		6.441E-02	3.487E+00	1.181E+00
17:10	2.998E-01		4.173E-01	4.685E-01		6.423E-02	3.477E+00	1.178E+00
17:20	2.989E-01		4.161E-01	4.671E-01		6.404E-02	3.467E+00	1.174E+00
17:30	2.980E-01		4.148E-01	4.658E-01		6.385E-02	3.457E+00	1.171E+00
17:40	2.972E-01		4.136E-01	4.644E-01		6.366E-02	3.446E+00	1.168E+00
17:50	2.963E-01		4.124E-01	4.630E-01		6.347E-02	3.436E+00	1.164E+00
18:00	2.954E-01		4.112E-01	4.617E-01		6.329E-02	3.426E+00	1.161E+00
18:10	2.946E-01		4.100E-01	4.603E-01		6.310E-02	3.416E+00	1.157E+00
18:20	2.937E-01		4.088E-01	4.590E-01		6.292E-02	3.406E+00	1.154E+00
18:30	2.928E-01		4.076E-01	4.576E-01		6.273E-02	3.396E+00	1.150E+00
18:40	2.920E-01		4.064E-01	4.563E-01		6.255E-02	3.386E+00	1.147E+00
18:50	2.911E-01		4.052E-01	4.550E-01		6.236E-02	3.376E+00	1.144E+00
19:00	2.903E-01		4.040E-01	4.536E-01		6.218E-02	3.366E+00	1.140E+00
19:10	2.894E-01		4.028E-01	4.523E-01		6.200E-02	3.356E+00	1.137E+00
19:20	2.886E-01		4.016E-01	4.510E-01		6.182E-02	3.347E+00	1.134E+00
19:30	2.877E-01		4.005E-01	4.496E-01		6.164E-02	3.337E+00	1.130E+00
19:40	4.430E-02		5.775E-02	6.816E-02		9.717E-03	5.267E-01	1.824E-01
19:50	4.297E-02		5.247E-02	6.510E-02		9.650E-03	5.237E-01	1.855E-01
20:00	4.169E-02		4.767E-02	6.217E-02		9.584E-03	5.208E-01	1.886E-01
20:10	4.044E-02		4.331E-02	5.938E-02		9.519E-03	5.179E-01	1.917E-01
20:20	3.923E-02		3.935E-02	5.671E-02		9.454E-03	5.149E-01	1.949E-01
20:30	3.806E-02		3.575E-02	5.416E-02		9.389E-03	5.121E-01	1.982E-01
20:40	3.692E-02		3.248E-02	5.173E-02		9.325E-03	5.092E-01	2.015E-01
20:50	3.581E-02		2.951E-02	4.940E-02		9.261E-03	5.063E-01	2.049E-01
21:00	3.474E-02		2.681E-02	4.718E-02		9.198E-03	5.035E-01	2.083E-01
21:10	3.370E-02		2.436E-02	4.506E-02		9.135E-03	5.006E-01	2.118E-01
21:20	3.269E-02		2.213E-02	4.304E-02		9.073E-03	4.978E-01	2.153E-01
21:30	3.171E-02		2.010E-02	4.110E-02		9.011E-03	4.950E-01	2.189E-01
21:40	9.837E+01	4.534E+01	3.242E+01	1.662E+02	6.364E+00	4.482E+01	1.924E+03	2.511E+03
21:50	3.816E+02	1.805E+02	1.177E+02	6.347E+02	2.533E+01	1.782E+02	7.661E+03	9.887E+03
22:00	1.205E+03	5.851E+02	3.484E+02	1.974E+03	8.208E+01	5.769E+02	2.483E+04	3.167E+04
22:10	6.888E+03	3.430E+03	1.864E+03	1.111E+04	4.810E+02	3.373E+03	1.453E+05	1.832E+05
22:20	8.181E+03	4.180E+03	2.074E+03	1.299E+04	5.863E+02	4.117E+03	1.776E+05	2.215E+05
22:30	8.338E+03	4.371E+03	1.979E+03	1.303E+04	6.133E+02	4.314E+03	1.863E+05	2.300E+05
22:40	7.969E+03	4.286E+03	1.772E+03	1.226E+04	6.017E+02	4.242E+03	1.834E+05	2.241E+05
22:50	7.616E+03	4.203E+03	1.586E+03	1.154E+04	5.903E+02	4.172E+03	1.805E+05	2.184E+05
23:00	7.279E+03	4.121E+03	1.420E+03	1.086E+04	5.792E+02	4.102E+03	1.777E+05	2.128E+05

Scenerio 85 Pressurizer Gas Space (uCi/ml)

TIME	Kr-85m	Kr-85	Kr-87	Kr-88	Xe-131m	Xe-133m	Xe-133	Xe-135
23:10	6.956E+03	4.041E+03	1.271E+03	1.021E+04	5.682E+02	4.033E+03	1.749E+05	2.073E+05
23:20	6.648E+03	3.963E+03	1.137E+03	9.612E+03	5.575E+02	3.965E+03	1.721E+05	2.019E+05
23:30	6.354E+03	3.886E+03	1.018E+03	9.044E+03	5.469E+02	3.899E+03	1.694E+05	1.967E+05
23:40	6.073E+03	3.810E+03	9.113E+02	8.510E+03	5.366E+02	3.833E+03	1.667E+05	1.916E+05
23:50	5.804E+03	3.736E+03	8.157E+02	8.007E+03	5.264E+02	3.768E+03	1.641E+05	1.866E+05
24:00	5.547E+03	3.664E+03	7.301E+02	7.534E+03	5.165E+02	3.704E+03	1.614E+05	1.818E+05
00:10	5.301E+03	3.592E+03	6.536E+02	7.089E+03	5.067E+02	3.641E+03	1.589E+05	1.770E+05
00:20	5.067E+03	3.523E+03	5.850E+02	6.671E+03	4.971E+02	3.579E+03	1.563E+05	1.724E+05
00:30	4.842E+03	3.454E+03	5.236E+02	6.277E+03	4.877E+02	3.518E+03	1.538E+05	1.678E+05
00:40	4.628E+03	3.387E+03	4.687E+02	5.906E+03	4.785E+02	3.458E+03	1.513E+05	1.634E+05
00:50	4.423E+03	3.321E+03	4.195E+02	5.557E+03	4.694E+02	3.399E+03	1.489E+05	1.591E+05
01:00	4.227E+03	3.257E+03	3.755E+02	5.229E+03	4.606E+02	3.341E+03	1.465E+05	1.549E+05
01:10	4.040E+03	3.194E+03	3.361E+02	4.920E+03	4.518E+02	3.283E+03	1.441E+05	1.508E+05
01:20	3.861E+03	3.132E+03	3.009E+02	4.630E+03	4.433E+02	3.227E+03	1.418E+05	1.468E+05
01:30	3.690E+03	3.071E+03	2.693E+02	4.356E+03	4.349E+02	3.171E+03	1.394E+05	1.429E+05
01:40	3.527E+03	3.011E+03	2.411E+02	4.099E+03	4.267E+02	3.116E+03	1.372E+05	1.391E+05
01:50	3.371E+03	2.953E+03	2.158E+02	3.857E+03	4.186E+02	3.062E+03	1.349E+05	1.354E+05
02:00	3.221E+03	2.895E+03	1.931E+02	3.629E+03	4.107E+02	3.009E+03	1.327E+05	1.318E+05
02:10	3.079E+03	2.839E+03	1.729E+02	3.415E+03	4.029E+02	2.957E+03	1.305E+05	1.283E+05
02:20	2.942E+03	2.784E+03	1.548E+02	3.213E+03	3.953E+02	2.905E+03	1.284E+05	1.248E+05
02:30	2.812E+03	2.730E+03	1.385E+02	3.024E+03	3.878E+02	2.854E+03	1.263E+05	1.215E+05
02:40	2.688E+03	2.677E+03	1.240E+02	2.845E+03	3.804E+02	2.805E+03	1.242E+05	1.182E+05
02:50	2.569E+03	2.625E+03	1.110E+02	2.677E+03	3.732E+02	2.755E+03	1.221E+05	1.150E+05
03:00	2.455E+03	2.574E+03	9.934E+01	2.519E+03	3.662E+02	2.707E+03	1.201E+05	1.119E+05

Scenario 85 Pressurizer Gas Space (uCi/ml)

TIME	I-131	I-132	I-133	I-134	I-135	Rb-88	Cs-134	Cs-137	Cs-138
14:00	3.792E-03	1.292E-02	1.217E-02	1.733E-02	1.362E-02	1.695E-03	2.430E-05	4.309E-05	2.206E-03
14:10	3.781E-03	1.288E-02	1.213E-02	1.728E-02	1.358E-02	1.690E-03	2.423E-05	4.297E-05	2.200E-03
14:20	3.770E-03	1.285E-02	1.209E-02	1.723E-02	1.354E-02	1.685E-03	2.416E-05	4.284E-05	2.193E-03
14:30	3.759E-03	1.281E-02	1.206E-02	1.718E-02	1.350E-02	1.680E-03	2.409E-05	4.271E-05	2.187E-03
14:40	3.748E-03	1.277E-02	1.202E-02	1.713E-02	1.346E-02	1.675E-03	2.402E-05	4.259E-05	2.181E-03
14:50	3.737E-03	1.273E-02	1.199E-02	1.708E-02	1.342E-02	1.670E-03	2.395E-05	4.246E-05	2.174E-03
15:00	3.726E-03	1.270E-02	1.195E-02	1.703E-02	1.338E-02	1.665E-03	2.388E-05	4.234E-05	2.168E-03
15:10	3.715E-03	1.266E-02	1.192E-02	1.698E-02	1.334E-02	1.660E-03	2.381E-05	4.221E-05	2.161E-03
15:20	3.704E-03	1.262E-02	1.188E-02	1.693E-02	1.330E-02	1.655E-03	2.374E-05	4.209E-05	2.155E-03
15:30	3.693E-03	1.258E-02	1.185E-02	1.688E-02	1.326E-02	1.650E-03	2.367E-05	4.197E-05	2.149E-03
15:40	3.682E-03	1.255E-02	1.181E-02	1.683E-02	1.322E-02	1.646E-03	2.360E-05	4.184E-05	2.142E-03
15:50	3.671E-03	1.251E-02	1.178E-02	1.678E-02	1.318E-02	1.641E-03	2.353E-05	4.172E-05	2.136E-03
16:00	3.660E-03	1.247E-02	1.174E-02	1.673E-02	1.314E-02	1.636E-03	2.346E-05	4.160E-05	2.130E-03
16:10	3.650E-03	1.244E-02	1.171E-02	1.668E-02	1.310E-02	1.631E-03	2.339E-05	4.148E-05	2.124E-03
16:20	3.639E-03	1.240E-02	1.168E-02	1.663E-02	1.307E-02	1.626E-03	2.332E-05	4.135E-05	2.117E-03
16:30	3.628E-03	1.236E-02	1.164E-02	1.658E-02	1.303E-02	1.622E-03	2.326E-05	4.123E-05	2.111E-03
16:40	3.618E-03	1.233E-02	1.161E-02	1.654E-02	1.299E-02	1.617E-03	2.319E-05	4.111E-05	2.105E-03
16:50	3.607E-03	1.229E-02	1.157E-02	1.649E-02	1.295E-02	1.612E-03	2.312E-05	4.099E-05	2.099E-03
17:00	3.596E-03	1.226E-02	1.154E-02	1.644E-02	1.291E-02	1.607E-03	2.305E-05	4.087E-05	2.093E-03
17:10	3.586E-03	1.222E-02	1.151E-02	1.639E-02	1.288E-02	1.603E-03	2.298E-05	4.075E-05	2.087E-03
17:20	3.575E-03	1.218E-02	1.147E-02	1.634E-02	1.284E-02	1.598E-03	2.292E-05	4.063E-05	2.080E-03
17:30	3.565E-03	1.215E-02	1.144E-02	1.629E-02	1.280E-02	1.593E-03	2.285E-05	4.051E-05	2.074E-03
17:40	3.554E-03	1.211E-02	1.140E-02	1.625E-02	1.276E-02	1.589E-03	2.278E-05	4.039E-05	2.068E-03
17:50	3.544E-03	1.208E-02	1.137E-02	1.620E-02	1.272E-02	1.584E-03	2.272E-05	4.028E-05	2.062E-03
18:00	3.534E-03	1.204E-02	1.134E-02	1.615E-02	1.269E-02	1.579E-03	2.265E-05	4.016E-05	2.056E-03
18:10	3.523E-03	1.201E-02	1.130E-02	1.610E-02	1.265E-02	1.575E-03	2.258E-05	4.004E-05	2.050E-03
18:20	3.513E-03	1.197E-02	1.127E-02	1.606E-02	1.261E-02	1.570E-03	2.252E-05	3.992E-05	2.044E-03
18:30	3.503E-03	1.194E-02	1.124E-02	1.601E-02	1.258E-02	1.565E-03	2.245E-05	3.980E-05	2.038E-03
18:40	3.492E-03	1.190E-02	1.120E-02	1.596E-02	1.254E-02	1.561E-03	2.238E-05	3.969E-05	2.032E-03
18:50	3.482E-03	1.187E-02	1.117E-02	1.592E-02	1.250E-02	1.556E-03	2.232E-05	3.957E-05	2.026E-03
19:00	3.472E-03	1.183E-02	1.114E-02	1.587E-02	1.247E-02	1.552E-03	2.225E-05	3.945E-05	2.020E-03
19:10	3.462E-03	1.180E-02	1.111E-02	1.582E-02	1.243E-02	1.547E-03	2.219E-05	3.934E-05	2.014E-03
19:20	3.452E-03	1.176E-02	1.107E-02	1.578E-02	1.239E-02	1.543E-03	2.212E-05	3.922E-05	2.008E-03
19:30	3.441E-03	1.173E-02	1.104E-02	1.573E-02	1.236E-02	1.538E-03	2.206E-05	3.911E-05	2.002E-03
19:40	4.890E-02	1.585E-01	1.561E-01	1.962E-01	1.727E-01	1.481E-01	3.136E-03	5.561E-03	2.314E-01
19:50	4.864E-02	1.500E-01	1.545E-01	1.714E-01	1.689E-01	9.989E-02	3.121E-03	5.534E-03	1.871E-01
20:00	4.838E-02	1.419E-01	1.530E-01	1.497E-01	1.653E-01	6.735E-02	3.107E-03	5.508E-03	1.513E-01
20:10	4.813E-02	1.343E-01	1.514E-01	1.307E-01	1.617E-01	4.541E-02	3.092E-03	5.482E-03	1.224E-01
20:20	4.787E-02	1.271E-01	1.499E-01	1.141E-01	1.582E-01	3.062E-02	3.077E-03	5.456E-03	9.898E-02
20:30	4.762E-02	1.202E-01	1.483E-01	9.966E-02	1.547E-01	2.065E-02	3.063E-03	5.431E-03	8.005E-02
20:40	4.736E-02	1.137E-01	1.468E-01	8.703E-02	1.514E-01	1.392E-02	3.048E-03	5.405E-03	6.474E-02
20:50	4.711E-02	1.076E-01	1.453E-01	7.600E-02	1.481E-01	9.387E-03	3.034E-03	5.380E-03	5.236E-02
21:00	4.686E-02	1.018E-01	1.439E-01	6.637E-02	1.449E-01	6.329E-03	3.020E-03	5.354E-03	4.235E-02
21:10	4.661E-02	9.635E-02	1.424E-01	5.796E-02	1.417E-01	4.268E-03	3.005E-03	5.329E-03	3.425E-02
21:20	4.637E-02	9.117E-02	1.410E-01	5.062E-02	1.386E-01	2.877E-03	2.991E-03	5.304E-03	2.770E-02
21:30	4.612E-02	8.626E-02	1.395E-01	4.420E-02	1.356E-01	1.940E-03	2.977E-03	5.279E-03	2.240E-02
21:40	9.716E+02	9.945E+02	1.702E+03	7.444E+01	9.325E+02	1.985E+02	1.211E+02	1.025E+02	8.339E+00
21:50	3.865E+03	3.763E+03	6.738E+03	2.599E+02	3.648E+03	5.420E+02	4.821E+02	4.080E+02	2.693E+01
22:00	1.252E+04	1.160E+04	2.172E+04	7.391E+02	1.162E+04	1.206E+03	1.563E+03	1.322E+03	7.091E+01
22:10	7.337E+04	6.464E+04	1.266E+05	3.802E+03	6.698E+04	4.768E+03	9.163E+03	7.754E+03	3.378E+02
22:20	8.935E+04	7.487E+04	1.535E+05	4.065E+03	8.022E+04	4.369E+03	1.117E+04	9.448E+03	3.345E+02
22:30	9.337E+04	7.443E+04	1.596E+05	3.729E+03	8.245E+04	3.597E+03	1.168E+04	9.879E+03	2.842E+02
22:40	9.150E+04	6.938E+04	1.556E+05	3.209E+03	7.947E+04	2.916E+03	1.145E+04	9.687E+03	2.264E+02
22:50	8.967E+04	6.468E+04	1.518E+05	2.761E+03	7.660E+04	2.433E+03	1.123E+04	9.499E+03	1.804E+02
23:00	8.788E+04	6.029E+04	1.480E+05	2.375E+03	7.382E+04	2.083E+03	1.101E+04	9.315E+03	1.438E+02

Scenario 85 Pressurizer Gas Space (uCi/ml)

TIME	I-131	I-132	I-133	I-134	I-135	Rb-88	Cs-134	Cs-137	Cs-138
23:10	8.612E+04	5.621E+04	1.443E+05	2.043E+03	7.115E+04	1.822E+03	1.079E+04	9.134E+03	1.146E+02
23:20	8.440E+04	5.240E+04	1.406E+05	1.758E+03	6.858E+04	1.623E+03	1.058E+04	8.956E+03	9.128E+01
23:30	8.271E+04	4.884E+04	1.373E+05	1.513E+03	6.610E+04	1.467E+03	1.038E+04	8.782E+03	7.273E+01
23:40	8.105E+04	4.553E+04	1.339E+05	1.301E+03	6.371E+04	1.340E+03	1.018E+04	8.612E+03	5.795E+01
23:50	7.943E+04	4.245E+04	1.306E+05	1.120E+03	6.140E+04	1.234E+03	9.979E+03	8.444E+03	4.618E+01
24:00	7.784E+04	3.957E+04	1.273E+05	9.633E+02	5.918E+04	1.143E+03	9.786E+03	8.280E+03	3.680E+01
00:10	7.628E+04	3.688E+04	1.242E+05	8.288E+02	5.704E+04	1.064E+03	9.595E+03	8.120E+03	2.932E+01
00:20	7.476E+04	3.438E+04	1.211E+05	7.131E+02	5.497E+04	9.935E+02	9.409E+03	7.962E+03	2.336E+01
00:30	7.326E+04	3.205E+04	1.181E+05	6.135E+02	5.298E+04	9.296E+02	9.226E+03	7.807E+03	1.861E+01
00:40	7.180E+04	2.988E+04	1.151E+05	5.279E+02	5.107E+04	8.712E+02	9.047E+03	7.656E+03	1.483E+01
00:50	7.036E+04	2.785E+04	1.123E+05	4.542E+02	4.922E+04	8.175E+02	8.871E+03	7.507E+03	1.182E+01
01:00	6.895E+04	2.597E+04	1.095E+05	3.907E+02	4.744E+04	7.677E+02	8.699E+03	7.361E+03	9.417E+00
01:10	6.757E+04	2.421E+04	1.068E+05	3.362E+02	4.572E+04	7.213E+02	8.530E+03	7.218E+03	7.504E+00
01:20	6.622E+04	2.256E+04	1.041E+05	2.892E+02	4.407E+04	6.781E+02	8.364E+03	7.078E+03	5.979E+00
01:30	6.490E+04	2.103E+04	1.016E+05	2.489E+02	4.247E+04	6.376E+02	8.202E+03	6.940E+03	4.764E+00
01:40	6.360E+04	1.961E+04	9.904E+04	2.141E+02	4.094E+04	5.996E+02	8.042E+03	6.806E+03	3.796E+00
01:50	6.232E+04	1.828E+04	9.659E+04	1.842E+02	3.946E+04	5.640E+02	7.886E+03	6.673E+03	3.025E+00
02:00	6.108E+04	1.704E+04	9.419E+04	1.585E+02	3.803E+04	5.306E+02	7.733E+03	6.544E+03	2.410E+00
02:10	5.986E+04	1.588E+04	9.185E+04	1.364E+02	3.665E+04	4.992E+02	7.583E+03	6.417E+03	1.920E+00
02:20	5.866E+04	1.481E+04	8.958E+04	1.173E+02	3.533E+04	4.696E+02	7.435E+03	6.292E+03	1.530E+00
02:30	5.748E+04	1.380E+04	8.735E+04	1.009E+02	3.405E+04	4.418E+02	7.291E+03	6.170E+03	1.219E+00
02:40	5.633E+04	1.287E+04	8.519E+04	8.684E+01	3.282E+04	4.157E+02	7.149E+03	6.050E+03	9.715E-01
02:50	5.521E+04	1.200E+04	8.308E+04	7.472E+01	3.163E+04	3.912E+02	7.010E+03	5.932E+03	7.741E-01
03:00	5.410E+04	1.118E+04	8.102E+04	6.428E+01	3.048E+04	3.680E+02	6.874E+03	5.817E+03	6.168E-01

WP850246

RADIOLOGICAL RELEASE PARAMETERS

TIME	SPING		MONITOR		DATA		Liquid Ci*MeV/mI
	Noble Gas Ci/sec	Noble Gas uCi/cc	Iodine Ci/sec.	Iodine uCi/cc	Partic. Ci/sec	Partic. uCi/cc	
22:50	1. 540E+00	5. 438E-02	1. 682E-04	5. 940E-06	1. 050E-06	3. 709E-08	8. 726E-03
23:00	1. 404E+01	4. 959E-01	3. 630E-04	1. 282E-05	2. 188E-06	7. 728E-08	1. 021E-02
23:10	2. 673E+01	9. 439E-01	5. 679E-04	2. 006E-05	3. 351E-06	1. 183E-07	1. 148E-02
23:20	3. 917E+01	1. 383E+00	7. 721E-04	2. 726E-05	4. 503E-06	1. 590E-07	1. 255E-02
23:30	5. 109E+01	1. 804E+00	9. 687E-04	3. 421E-05	5. 623E-06	1. 986E-07	1. 345E-02
23:40	6. 234E+01	2. 202E+00	1. 154E-03	4. 074E-05	6. 699E-06	2. 366E-07	1. 420E-02
23:50	7. 283E+01	2. 572E+00	1. 325E-03	4. 679E-05	7. 723E-06	2. 727E-07	1. 483E-02
24:00	8. 253E+01	2. 914E+00	1. 482E-03	5. 233E-05	8. 689E-06	3. 069E-07	1. 535E-02
00:10	9. 143E+01	3. 229E+00	1. 624E-03	5. 734E-05	9. 595E-06	3. 389E-07	1. 578E-02
00:20	9. 956E+01	3. 516E+00	1. 751E-03	6. 185E-05	1. 004E-05	3. 687E-07	1. 613E-02
00:30	1. 069E+02	3. 777E+00	1. 865E-03	6. 587E-05	1. 123E-05	3. 965E-07	1. 640E-02
00:40	1. 136E+02	4. 013E+00	1. 966E-03	6. 944E-05	1. 195E-05	4. 222E-07	1. 661E-02
00:50	1. 197E+02	4. 226E+00	2. 056E-03	7. 259E-05	1. 263E-05	4. 459E-07	1. 676E-02
01:00	1. 251E+02	4. 418E+00	2. 134E-03	7. 536E-05	1. 325E-05	4. 678E-07	1. 686E-02
01:10	1. 300E+02	4. 591E+00	2. 202E-03	7. 778E-05	1. 381E-05	4. 879E-07	1. 686E-02
01:20	1. 344E+02	4. 745E+00	2. 262E-03	7. 988E-05	1. 434E-05	5. 063E-07	1. 686E-02
01:30	9. 800E+01	3. 461E+00	1. 643E-03	5. 804E-05	1. 051E-05	3. 713E-07	1. 686E-02
01:40	7. 148E+01	2. 524E+00	1. 194E-03	4. 218E-05	7. 715E-06	2. 724E-07	1. 686E-02
01:50	5. 214E+01	1. 841E+00	8. 682E-04	3. 066E-05	5. 663E-06	2. 000E-07	1. 686E-02
02:00	3. 804E+01	1. 343E+00	6. 313E-04	2. 229E-05	4. 159E-06	1. 469E-07	1. 686E-02
02:10	2. 775E+01	9. 799E-01	4. 591E-04	1. 621E-05	3. 055E-06	1. 079E-07	1. 686E-02
02:20	2. 024E+01	7. 149E-01	3. 339E-04	1. 179E-05	2. 244E-06	7. 925E-08	1. 686E-02
02:30	1. 477E+01	5. 216E-01	2. 429E-04	8. 580E-06	1. 649E-06	5. 822E-08	1. 686E-02
02:40	1. 078E+01	3. 806E-01	1. 768E-04	6. 243E-06	1. 211E-06	4. 278E-08	1. 686E-02
02:50	7. 865E+00	2. 777E-01	1. 287E-04	4. 544E-06	8. 901E-07	3. 143E-08	1. 686E-02
03:00	5. 739E+00	2. 027E-01	9. 366E-05	3. 307E-06	6. 541E-07	2. 310E-08	1. 686E-02

APPENDIX D
METEOROLOGICAL DATA

NATIONAL WEATHER SERVICE 24-HOUR FORECAST

Arkansas Zones 4, 5, 7

1200 Noon CST Wednesday, April 24, 1985

This afternoon . . . cloudy with a high in the 60's.
Easterly wind 5-10 mph.

Tonight . . . cloudy with low of 55.
Southeasterly wind 5-10 mph.

Tomorrow . . . partly cloudy, high near 70.
Southeasterly wind around 5 mph.

METEROLOGICAL DATA

<u>TIME</u>	<u>LOWER WINDSPEED (MPH)</u>	<u>LOWER WIND DIRECTION (DEGREES)</u>	<u>$\sigma \theta$</u>	<u>ΔT</u>
6:00	7.33	115	6	-0.69
6:10	7.42	117	7	-0.83
6:20	7.27	116	6	-0.98
6:30	7.93	115	4	-0.98
6:40	7.40	117	3	-0.97
6:50	7.42	118	4	-0.97
7:00	8.01	118	5	-1.00
7:10	7.62	116	5	-1.08
7:20	7.32	119	4	-1.07
7:30	7.32	122	5	-1.05
7:40	6.66	126	5	-1.06
7:50	6.78	128	5	-1.11
8:00	5.68	134	6	-1.05
8:10	5.95	131	8	-1.16
8:20	5.51	128	7	-1.20
8:30	5.37	125	5	-1.17
8:40	6.03	120	5	-1.04
8:50	5.59	118	5	-0.91
9:00	5.12	113	5	-0.89
9:10	5.12	115	6	-0.79
9:20	4.00	119	8	-0.83
9:30	4.34	113	7	-1.19

METEROLOGICAL DATA

<u>TIME</u>	<u>LOWER WINDSPEED (MPH)</u>	<u>LOWER WIND DIRECTION (DEGREES)</u>	<u>$\sigma \theta$</u>	<u>ΔT</u>
9:40	4.54	112	8	-1.33
9:50	4.07	117	7	-1.19
10:00	4.81	123	5	-0.99
10:10	5.61	114	6	-0.56
10:20	5.88	120	6	-0.54
10:30	5.83	121	4	-0.51
10:40	5.39	119	4	-0.56
10:50	4.76	125	7	-0.80
11:00	5.37	122	5	-0.74
11:10	4.96	119	5	-0.72
11:20	5.10	118	6	-0.83
11:30	4.93	123	6	-0.73
11:40	4.59	122	3	-0.22
11:50	4.88	128	2	-0.17
12:00	5.35	128	2	-0.12
12:10	5.95	123	3	-0.22
12:20	5.00	116	6	-0.45
12:30	5.17	119	7	-0.69
12:40	5.12	124	7	-1.15
12:50	5.22	120	5	-1.30
1:00	4.90	120	4	-1.40
1:10	5.54	118	3	-1.74

METEROLOGICAL DATA

<u>TIME</u>	<u>LOWER WINDSPEED (MPH)</u>	<u>LOWER WIND DIRECTION (DEGREES)</u>	<u>σ θ</u>	<u>ΔT</u>
1:20	5.44	115	4	-1.76
1:30	4.90	116	5	-1.90
1:40	4.42	112	6	-1.36
1:50	3.78	121	8	-1.11
2:00	4.63	125	6	-1.05
2:10	5.27	128	5	-1.13
2:20	5.71	127	6	-1.16
2:30	4.81	132	5	-1.56
2:40	4.56	124	5	-1.04
2:50	5.76	123	5	-1.09
3:00	6.15	124	5	-1.09

APPENDIX E
OFFSITE MONITORING DATA



CENTER-
 LINE
 POINT
 A

WHOLE
 BODY
 ME/AM
 3.75

THICKNESS
 ME/AM
 1.254-1

WEIGHT
 ME/AM
 1.254-1

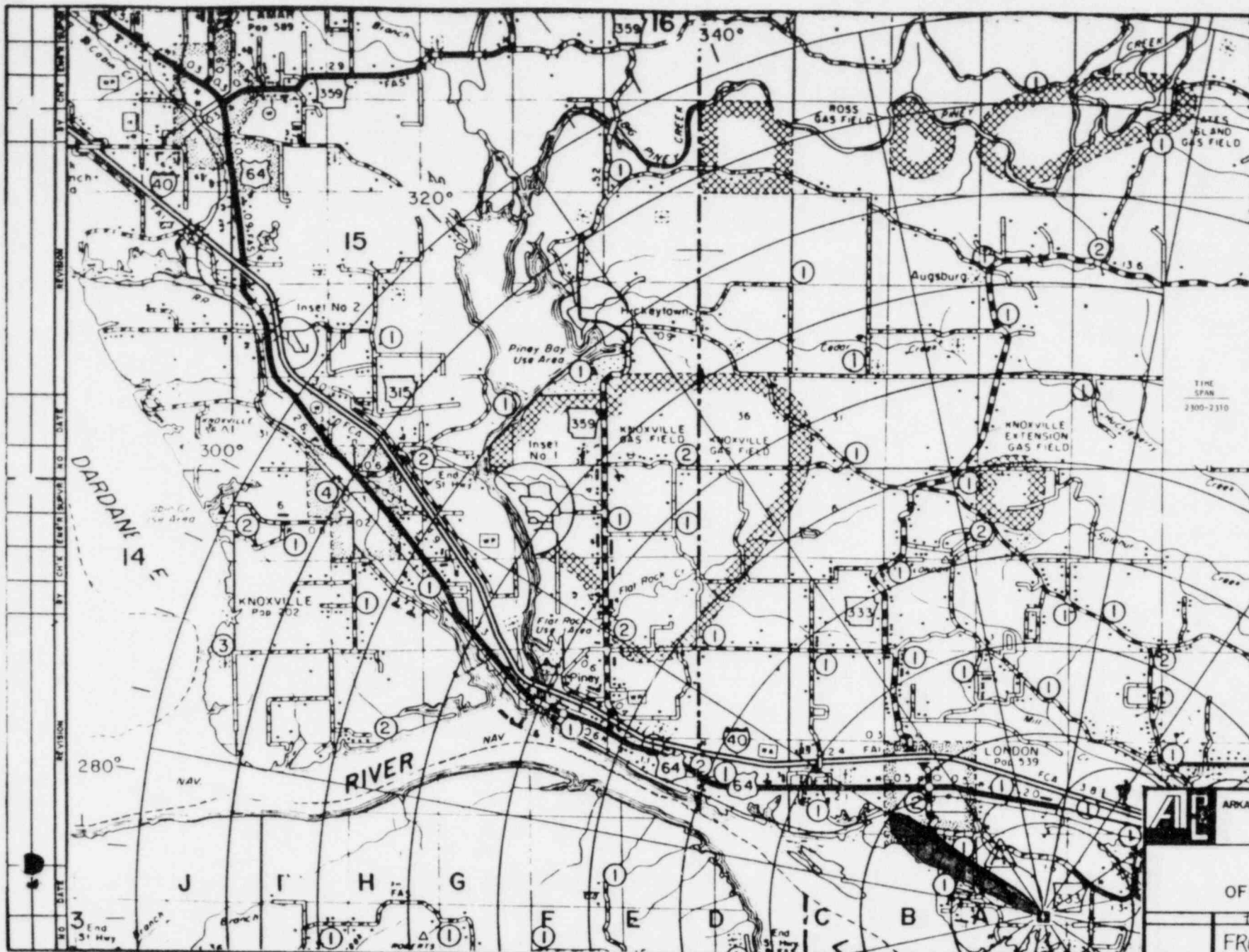
WEIGHT
 ME/AM
 1.254-1

WEIGHT
 ME/AM
 1.254-1


TIME
 SPAN
 2250-2300

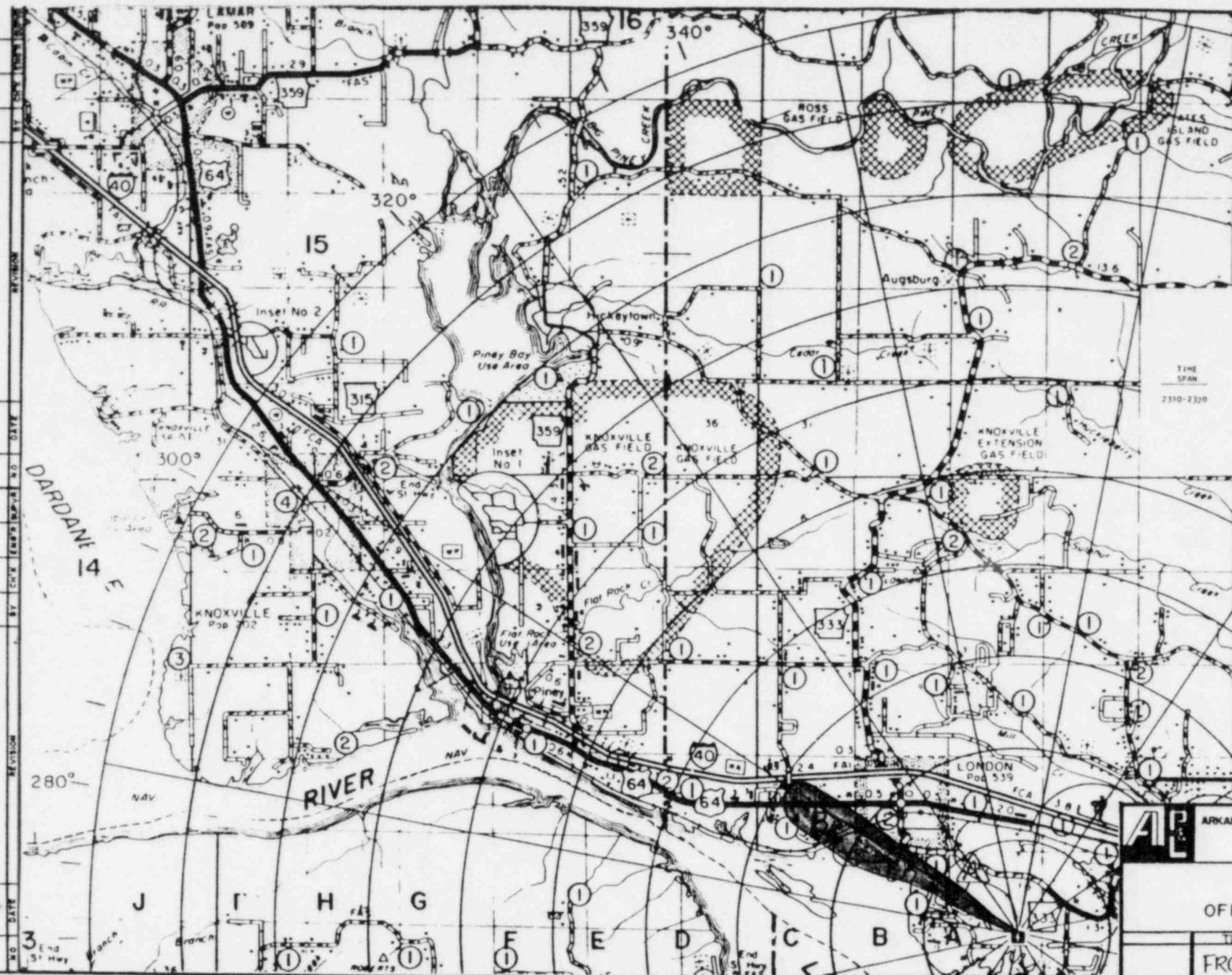
ARKANSAS POWER & LIGHT COMPANY
 B

REX 1985
 OFFSITE DOSE MAP
 TIME
 FROM 2250 To 2300




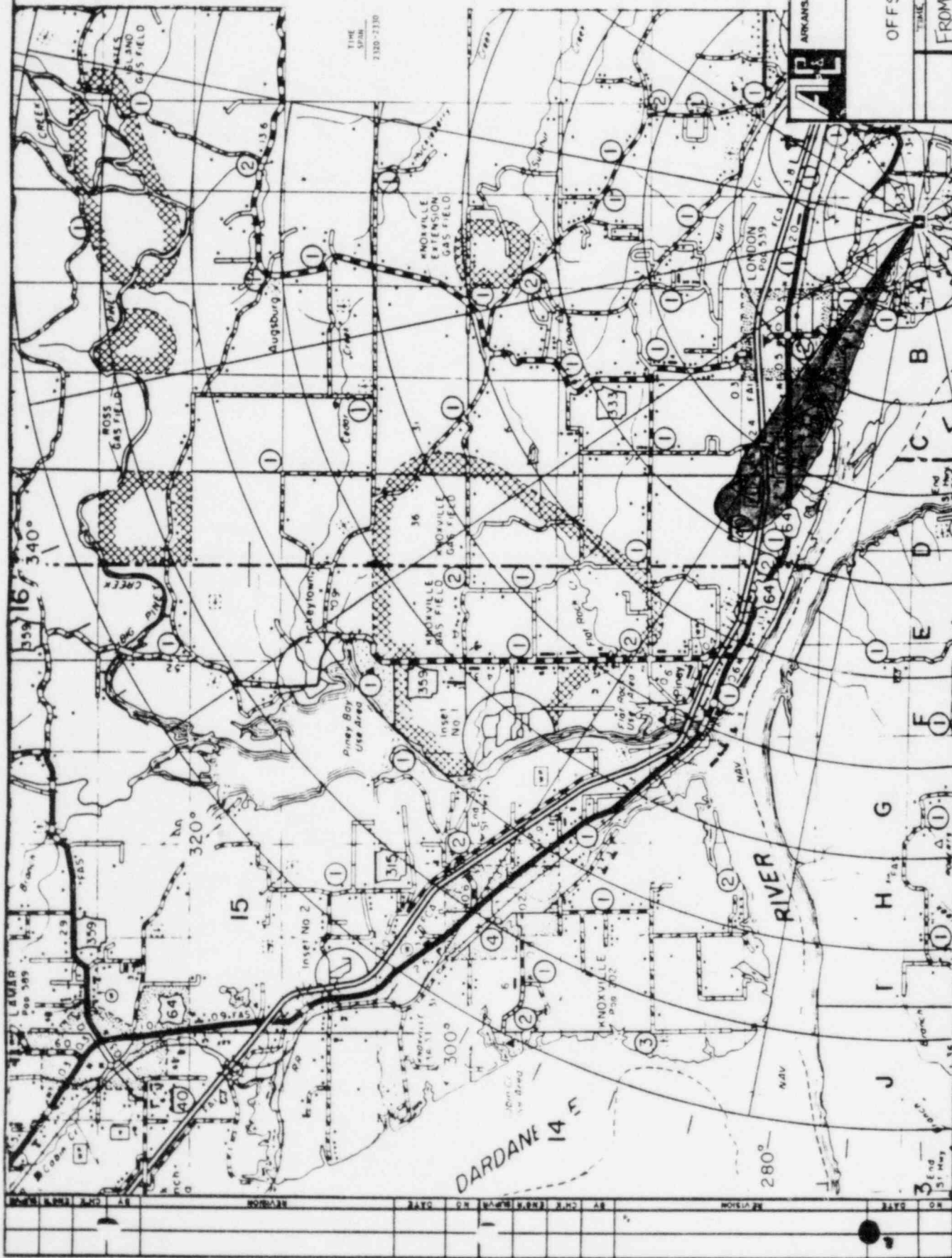
TIME	CENTER- LINE POINT	WIND DIR./HR	THYROID HR./HR	GROSS Rn-14 CPM For 750 LITER ZEO-LITE FILTER
2300-2310	A	4.27	1.18E-1	79

 ARKANSAS POWER & LIGHT COMPANY	SIZE B
	REX 1985 OFFSITE DOSE MAP
TIME FROM 2300 TO 2310	



TIME SPAN	CENTER- LINE POINT	WHOLE BODY MR/HR	THYROID MR/HR	CROSS RM-14 CPM for 750 LITER ZEOLITE FILTER
2310-2320	A	7.95	2.84E-1	98
	B	21.2	7.82E-1	172

 ARKANSAS POWER & LIGHT COMPANY		SIZE B
REX 1985 OFFSITE DOSE MAP		
TIME FROM 2310 TO 2320		



CENTER- LINE POINT	WHOLE BODY MIL/MI	THYROID MIL/MI	GROSS MIL/IN CPM AND LITER 200 LTR FILTER	
			MIL/MI	CPM
A	8.5A	2.25E-1	89	
B	8.1A	1.36	284	
C	19.3	7.5E-3	175	

TIME
SPAN
2320-2330

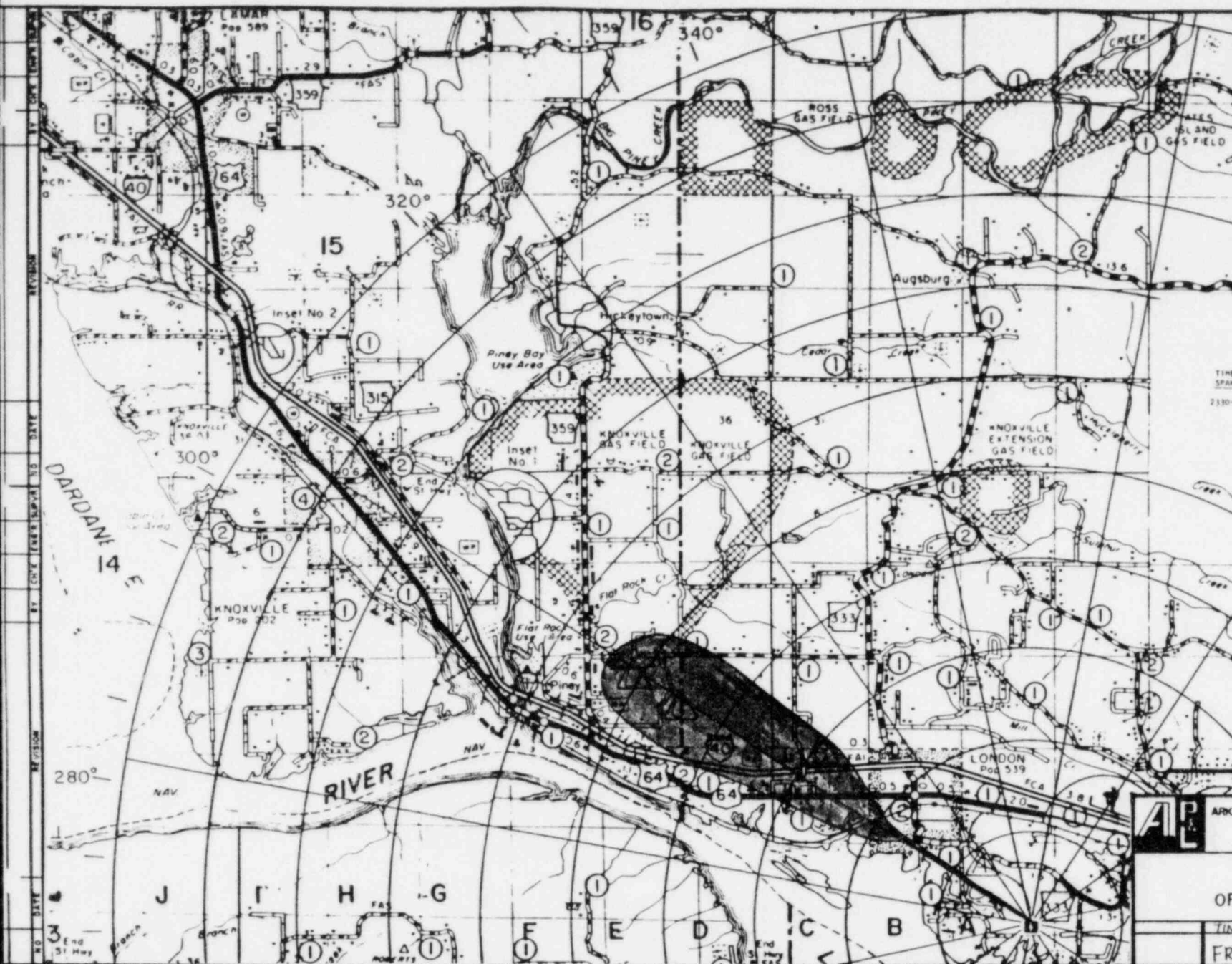
AL

ARKANSAS POWER & LIGHT COMPANY


SIZE
B

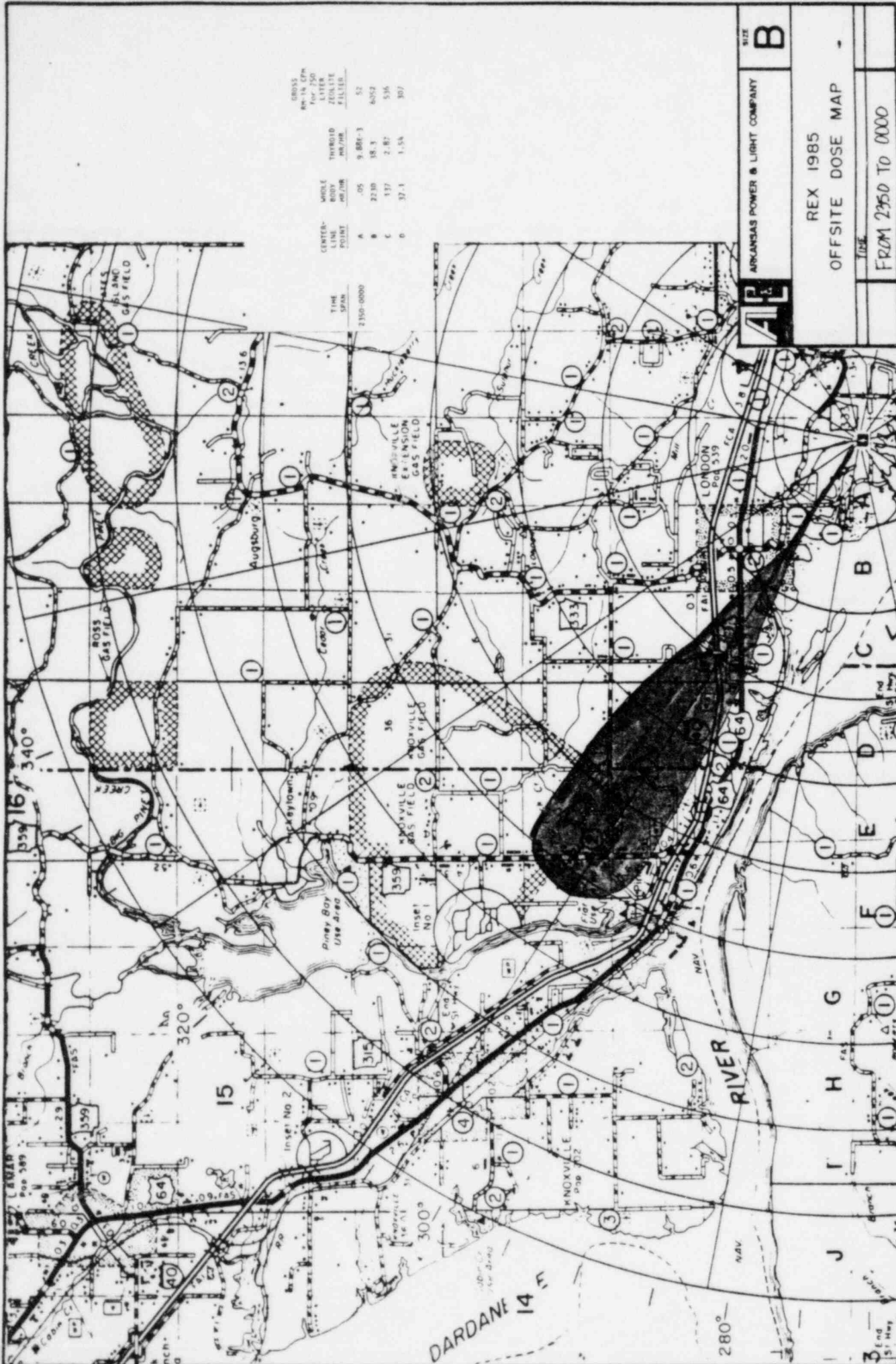
REX 1985
OFFSITE DOSE MAP

TIME
FROM 2320 TO 2330



TIME SPAN	CENTER LINE POINT	WHOLE BODY HR/HR	THYROID HR/HR	GROSS Rn-14 CPM For 750 LITER ZEOLITE FILTER
2330-2350	A	.05	9.88E-3	12
	B	391	8.34	1518
	C	29.2	1.11	235
	D	21.0	.89	203

 ARKANSAS POWER & LIGHT COMPANY	SIZE B
	REX 1985 OFFSITE DOSE MAP
TIME FROM 2330 TO 2350	



GR055
Rev 14, CPM
For 750
LAYER
ZECULITE
FILLER

CENTER- LINE POINT	WHOLE BODY PER/HR	THYROID PER/HR
A	.05	9.88E-3
B	22.10	18.3
C	137	2.87
D	37.1	1.5A

TIME
SPAN
2350-0000

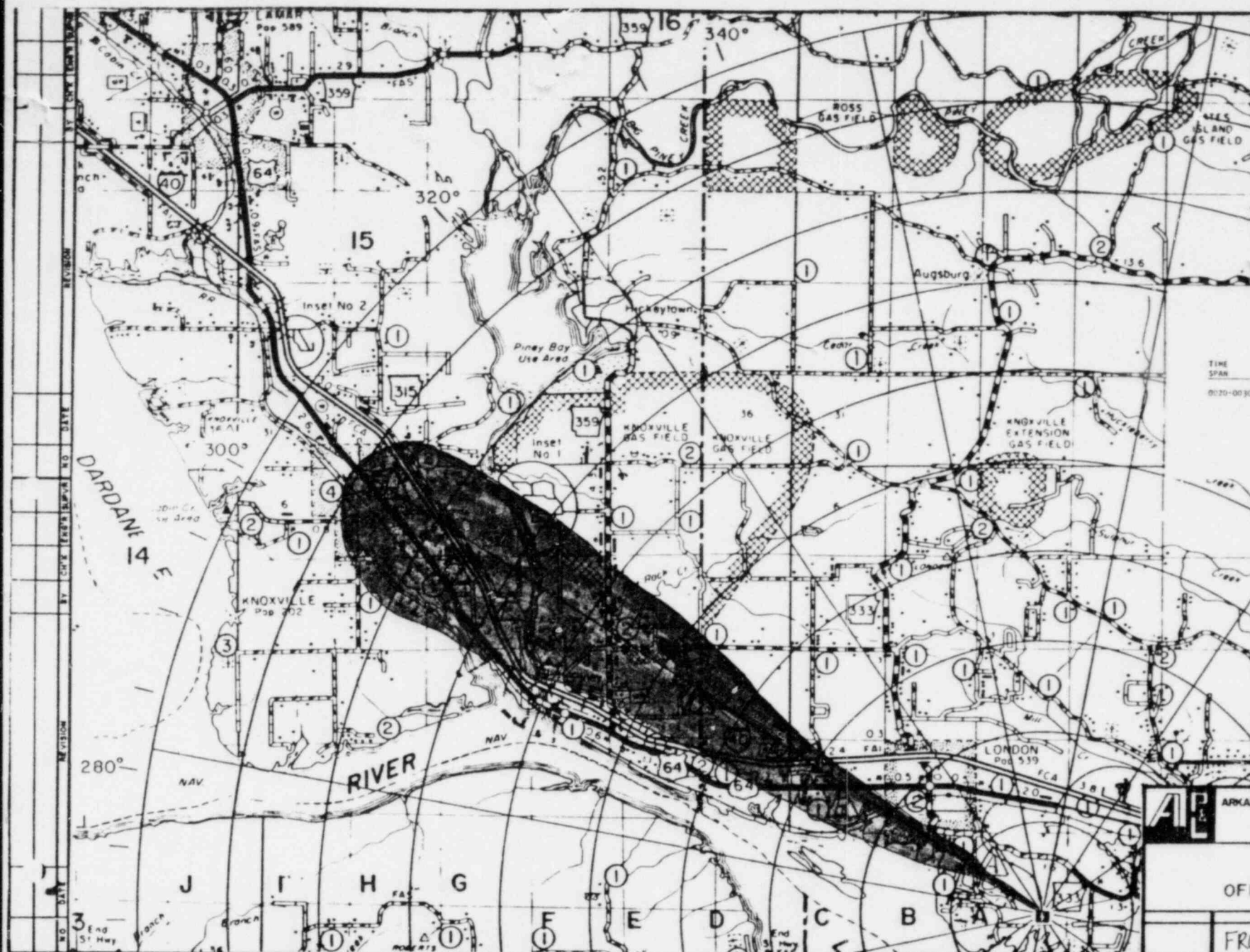
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ARKANSAS POWER & LIGHT COMPANY

SIZE
B

REX 1985
OFFSITE DOSE MAP

TIME
FROM 2350 TO 0000



TIME SPAN	CENTER LINE POINT	WHOLE BODY MR/HR	THYROID MR/HR	GRASS
				SH-15 CPM for 750 LITER ZEOLITE FILTER
0020-0030	A	23.0	.55	155
	B	117	2.8	470
	C	11	.28	1450
	D	44.9	9.2	1564
	E	400	6.1	1059
	F	50	1.1	284
	G	40	1.0	221
	H	9	.58	38



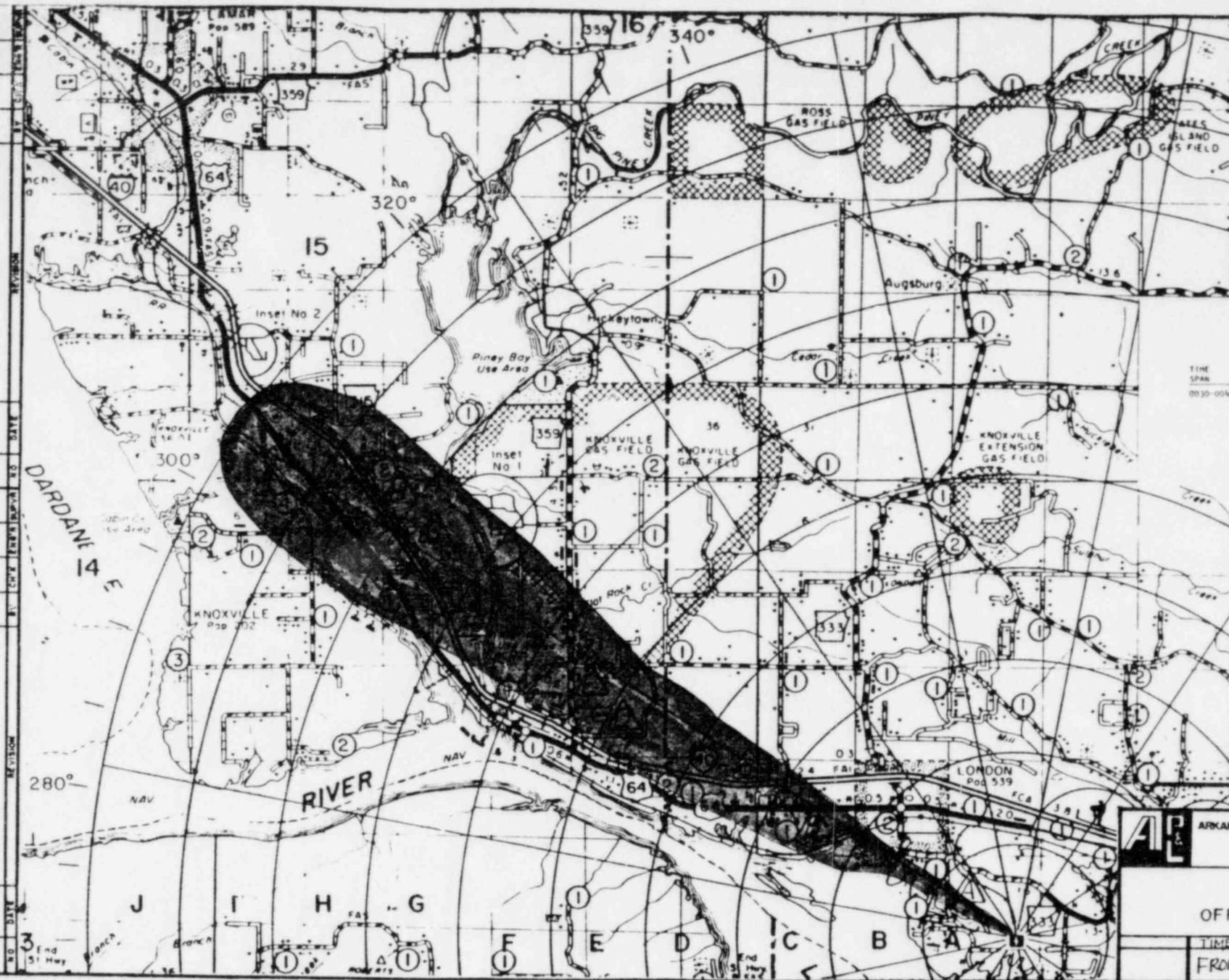
ARKANSAS POWER & LIGHT COMPANY

SIZE

B

REX 1985
OFFSITE DOSE MAP

FROM 0020 TO 0030



TIME
SPAN
0030-0040

CENTER- LINE POINT	WHOLE BODY MR/HR	THYROID MR/HR	GROSS RN-13 CPW for 750 LITER ZEOLITE FILTER
A	23.4	.56	145
B	162	3.19	590
C	115	2.78	502
D	327	4.31	1157
E	900	6.26	1114
F	181	4.25	260
G	68	2.03	392
H	25	1.25	265
I	4	.44	125

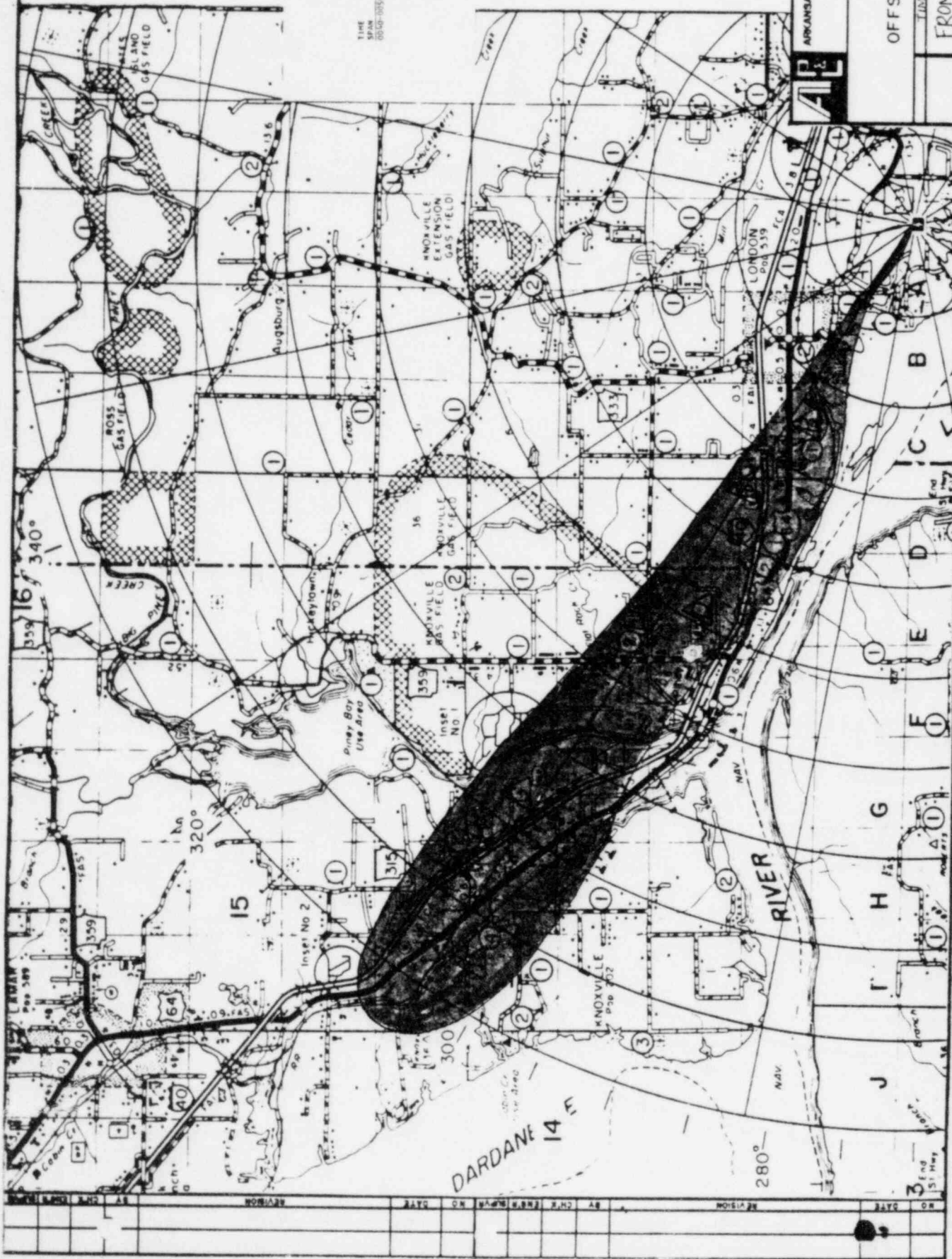
ARKANSAS POWER & LIGHT COMPANY

B

REX 1985
OFFSITE DOSE MAP

TIME

FROM 0030 TO 0040



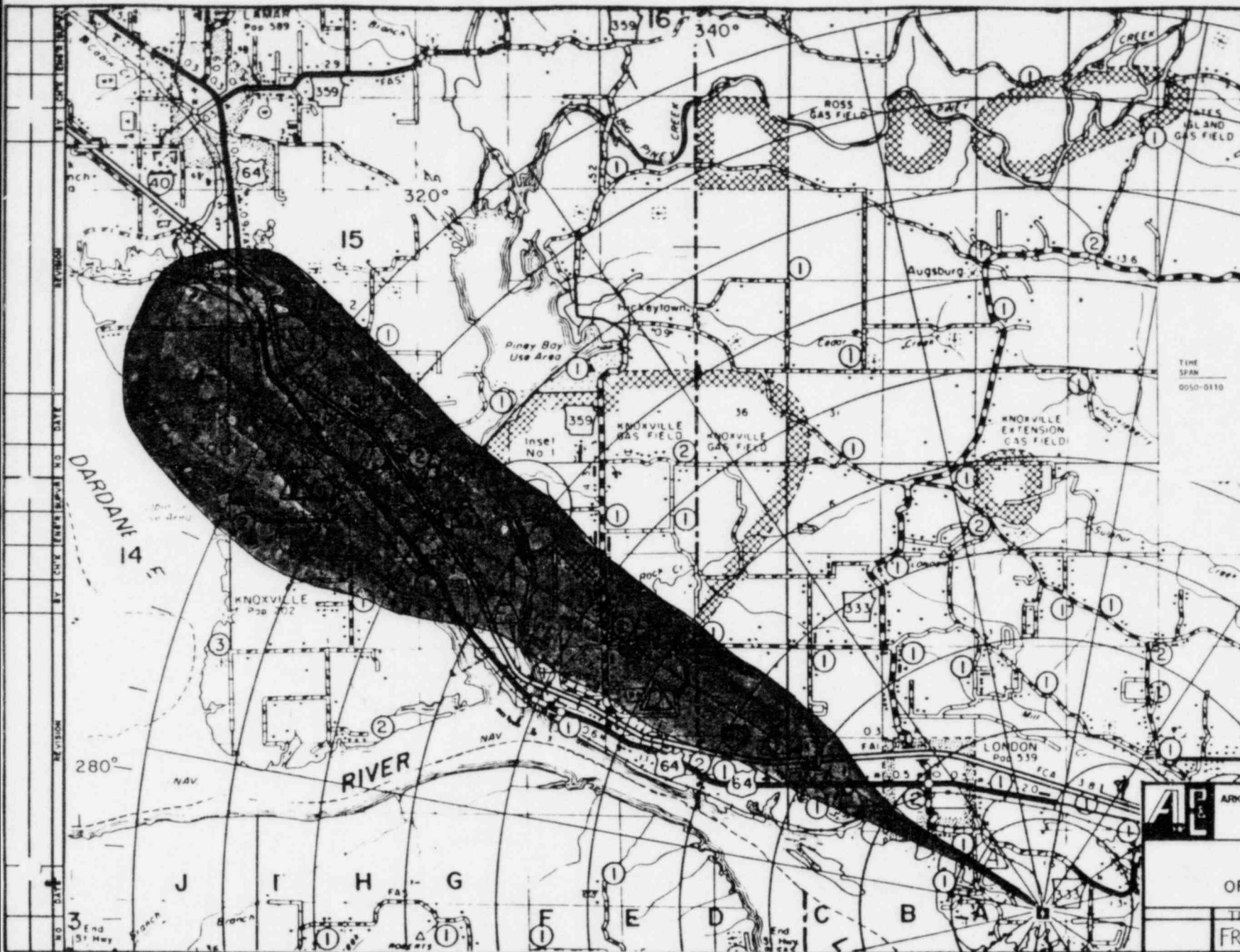
CENTER- LINE POINT		WHOLE BODY MEASURE		THICKNESS MEASURE		GROSS MEASURE FOR 750 LITER EQUIVALENT	
A	1	25.7	45	3.85	46.7	210.11	16.4
B	2	16.7	30.3	3.85	46.7	210.11	16.4
C	3	16.7	30.3	3.85	46.7	210.11	16.4
D	4	16.7	30.3	3.85	46.7	210.11	16.4
E	5	16.7	30.3	3.85	46.7	210.11	16.4
F	6	16.7	30.3	3.85	46.7	210.11	16.4
G	7	16.7	30.3	3.85	46.7	210.11	16.4
H	8	16.7	30.3	3.85	46.7	210.11	16.4
I	9	16.7	30.3	3.85	46.7	210.11	16.4
J	10	16.7	30.3	3.85	46.7	210.11	16.4

TIME
SPAN
00:00-00:50


ARIZONA POWER & LIGHT COMPANY
B

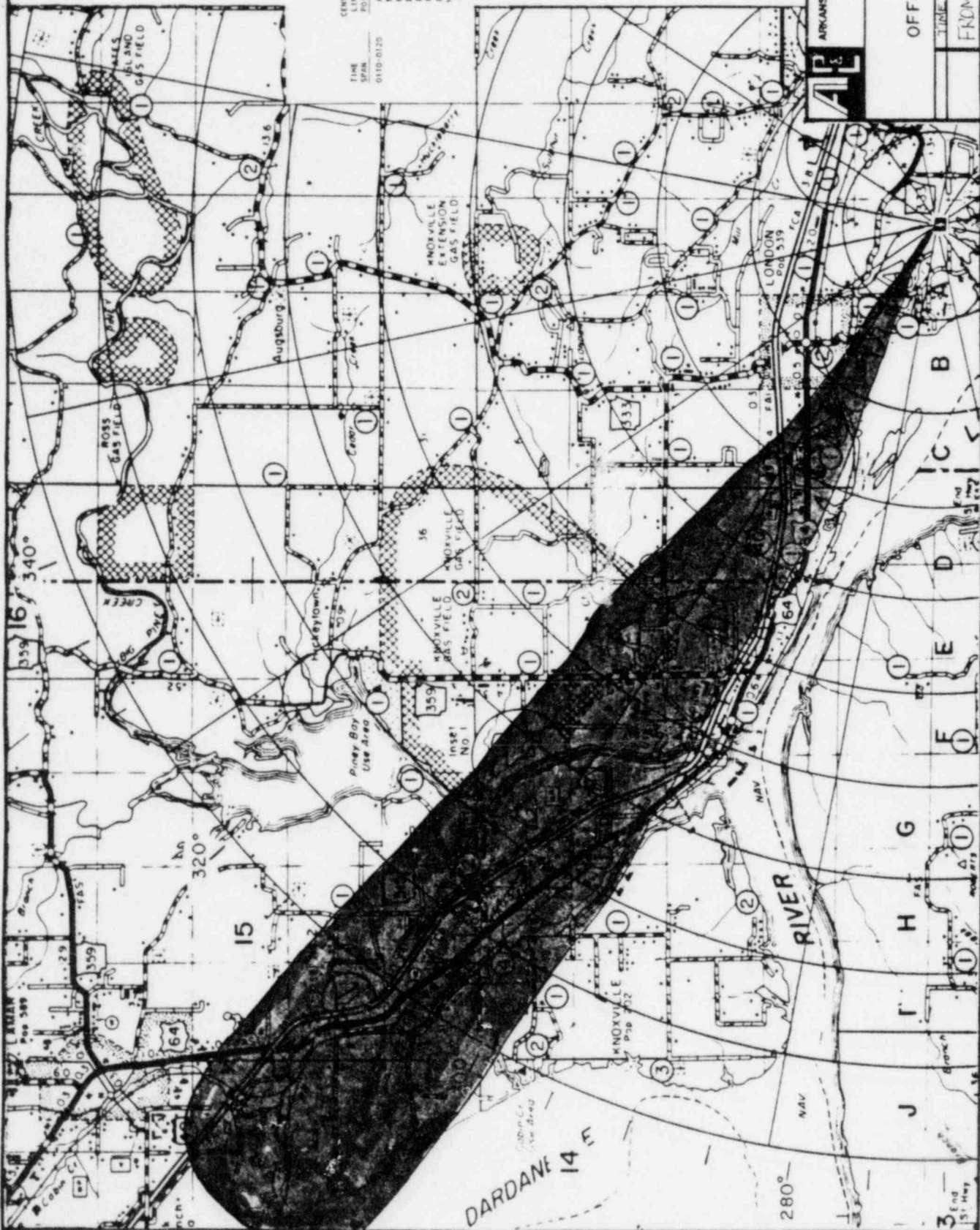
REX 1985
OFFSITE DOSE MAP

FROM 00:00 TO 00:50



TIME SPAN	CENTER LINE POINT	GROSS RN-14 CPM for 750 LITER 200 LITER FILTER		
		WHOLE BODY MB/Hr	THYROID MB/Hr	
0050-0110	A	.57	4	118
	B	160	3.82	683
	C	165	3.98	713
	D	198	3.25	597
	E	183	4.00	732
	F	227	4.22	751
	G	220	3.90	675
	H	127	2.02	381
	I	53.7	1.12	230

 ARKANSAS POWER & LIGHT COMPANY		SIZE B
REX 1985 OFFSITE DOSE MAP		
TIME FROM 0050 TO 0110		



GROSS
 RM-14, 67M
 For 750
 LITER
 ZINCITE
 FILTER

WHOLE BODY	THYROID
DOSE	DOSE
36.8	3.15
155	8.09
167	1.15
168	6.19
169	3.23
170	1.28
171	1.22
172	1.15

CENTER-
 LINE
 POINT
 TIME
 SPAN

LINE	POINT	TIME	SPAN
A	1	0110-0120	
B	2		
C	3		
D	4		
E	5		
F	6		
G	7		
H	8		
I	9		

ARKANSAS POWER & LIGHT COMPANY
 B

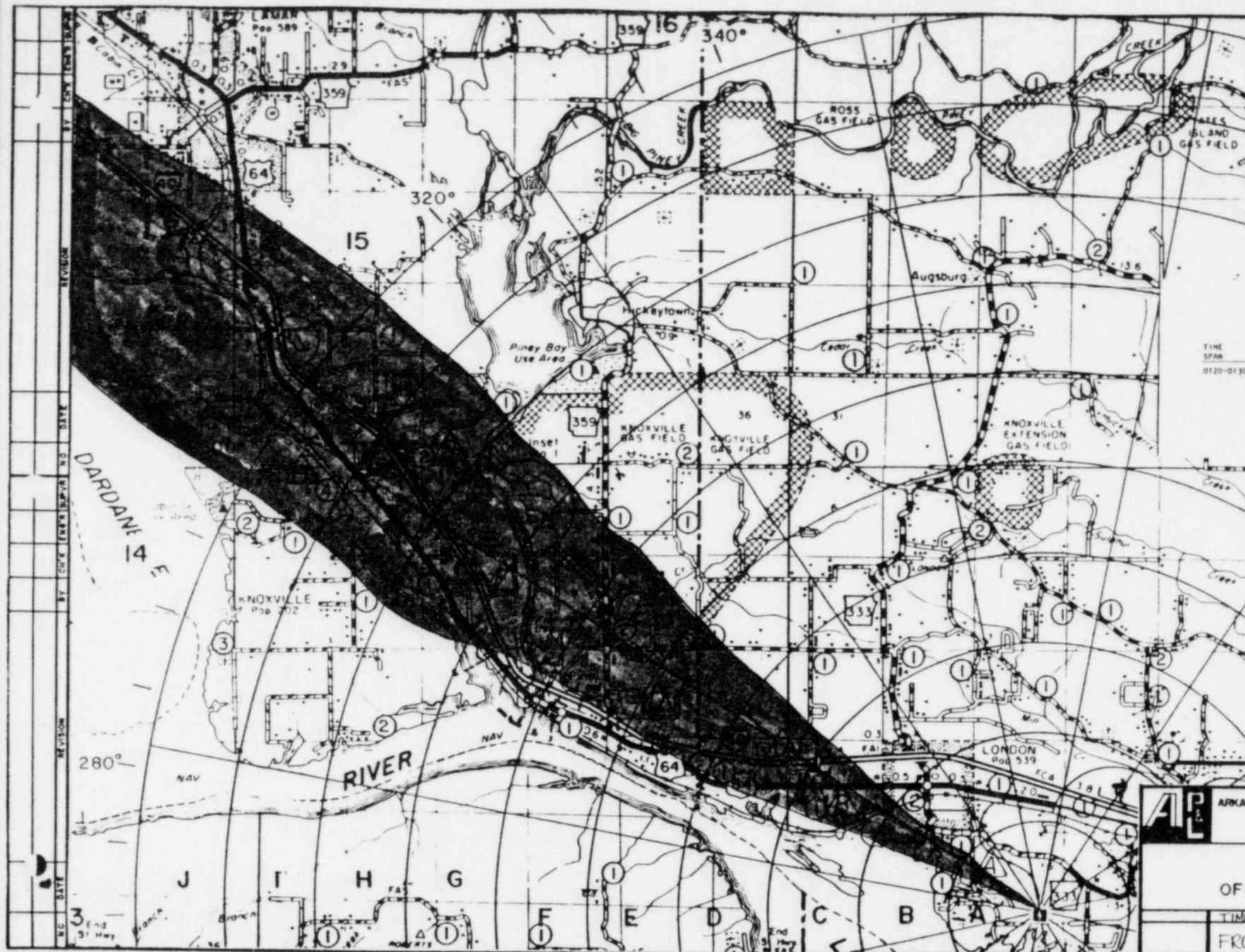
REX 1985
 OFFSITE DOSE MAP

TIME
 FROM 0110 TO 0120

DARDANE 14 E

RIVER

3
 End
 15 May



TIME
SPAN
0120-0130

CENTER- LINE POINT	WHOLE BODY MR/HR	THYROID MR/HR	GROSS RM-14 CPM for 750 LITER ZEOLITE FILTER
A	15.6	.36	111
B	170	4.15	722
C	175	4.19	713
D	139	3.61	650
E	122	4.38	767
F	112	2.87	538
G	128	2.61	475
H	121	1.68	314

APL ARKANSAS POWER & LIGHT COMPANY

SIZE

B

REX 1985
OFFSITE DOSE MAP

TIME
FROM 0120 TO 0130



TIME		CENTER- LINE POINT		MOBILE BODY WEIGHT		THYROID WEIGHT		GROSS WEIGHT FOR 70% LITTER ZEOLITE FILTER	
0140-0150		A	1	183	3	93	203		
		B	2	179	4	93	203		
		C	3	188	4	93	203		
		D	4	167	3	93	203		
		E	5	179	3	93	203		
		F	6	179	3	93	203		
		G	7	179	3	93	203		
		H	8	179	3	93	203		
		I	9	179	3	93	203		
		J	10	179	3	93	203		

AP

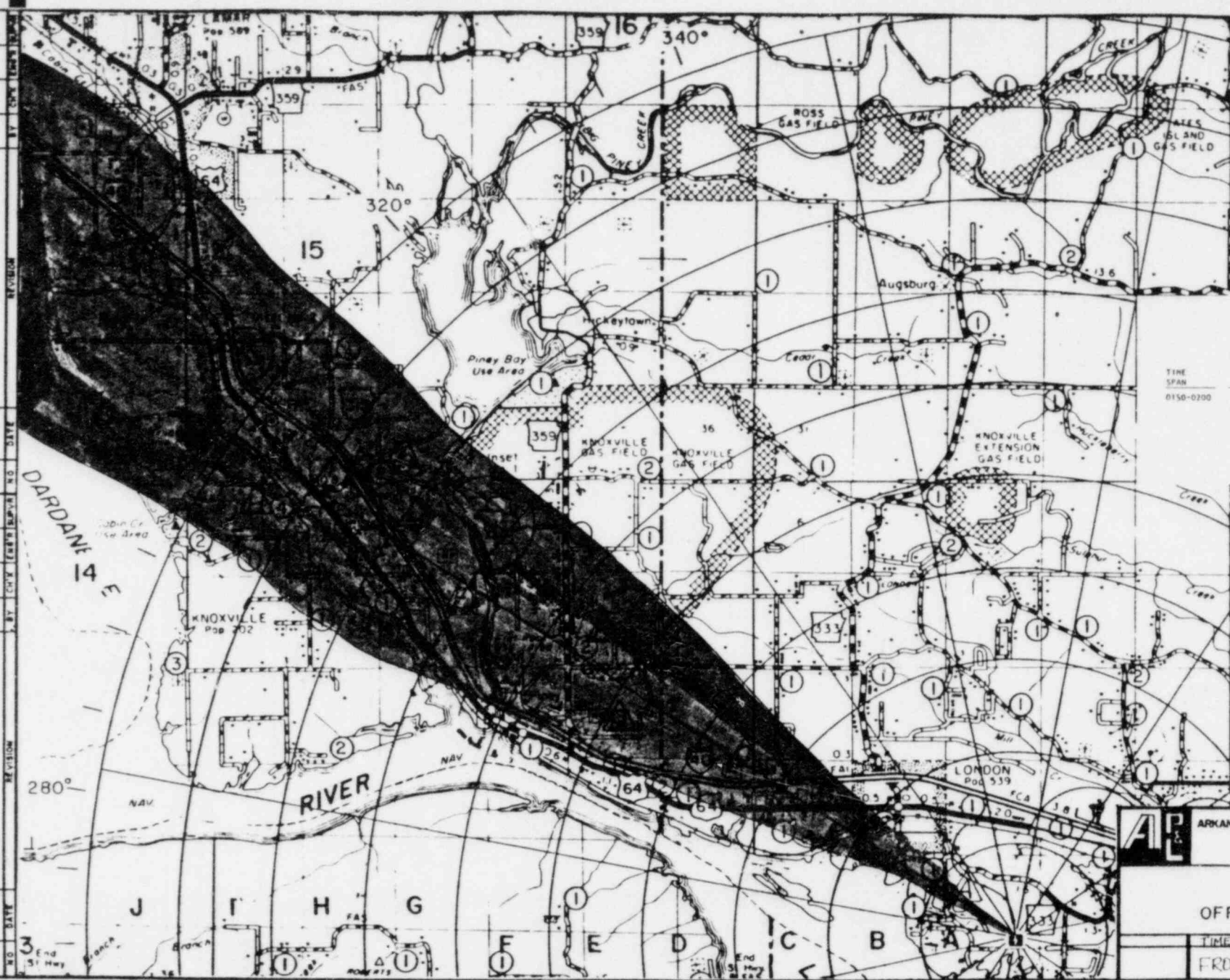
ARKANSAS POWER & LIGHT COMPANY

SIZE
B

REX 1985
OFFSITE DOSE MAP

TIME
FROM 0140 TO 0150

NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10	NO. 11	NO. 12	NO. 13	NO. 14	NO. 15	NO. 16	NO. 17	NO. 18	NO. 19	NO. 20	NO. 21	NO. 22	NO. 23	NO. 24	NO. 25	NO. 26	NO. 27	NO. 28	NO. 29	NO. 30	NO. 31	NO. 32	NO. 33	NO. 34	NO. 35	NO. 36	NO. 37	NO. 38	NO. 39	NO. 40	NO. 41	NO. 42	NO. 43	NO. 44	NO. 45	NO. 46	NO. 47	NO. 48	NO. 49	NO. 50	NO. 51	NO. 52	NO. 53	NO. 54	NO. 55	NO. 56	NO. 57	NO. 58	NO. 59	NO. 60	NO. 61	NO. 62	NO. 63	NO. 64	NO. 65	NO. 66	NO. 67	NO. 68	NO. 69	NO. 70	NO. 71	NO. 72	NO. 73	NO. 74	NO. 75	NO. 76	NO. 77	NO. 78	NO. 79	NO. 80	NO. 81	NO. 82	NO. 83	NO. 84	NO. 85	NO. 86	NO. 87	NO. 88	NO. 89	NO. 90	NO. 91	NO. 92	NO. 93	NO. 94	NO. 95	NO. 96	NO. 97	NO. 98	NO. 99	NO. 100	NO. 101	NO. 102	NO. 103	NO. 104	NO. 105	NO. 106	NO. 107	NO. 108	NO. 109	NO. 110	NO. 111	NO. 112	NO. 113	NO. 114	NO. 115	NO. 116	NO. 117	NO. 118	NO. 119	NO. 120	NO. 121	NO. 122	NO. 123	NO. 124	NO. 125	NO. 126	NO. 127	NO. 128	NO. 129	NO. 130	NO. 131	NO. 132	NO. 133	NO. 134	NO. 135	NO. 136	NO. 137	NO. 138	NO. 139	NO. 140	NO. 141	NO. 142	NO. 143	NO. 144	NO. 145	NO. 146	NO. 147	NO. 148	NO. 149	NO. 150	NO. 151	NO. 152	NO. 153	NO. 154	NO. 155	NO. 156	NO. 157	NO. 158	NO. 159	NO. 160	NO. 161	NO. 162	NO. 163	NO. 164	NO. 165	NO. 166	NO. 167	NO. 168	NO. 169	NO. 170	NO. 171	NO. 172	NO. 173	NO. 174	NO. 175	NO. 176	NO. 177	NO. 178	NO. 179	NO. 180	NO. 181	NO. 182	NO. 183	NO. 184	NO. 185	NO. 186	NO. 187	NO. 188	NO. 189	NO. 190	NO. 191	NO. 192	NO. 193	NO. 194	NO. 195	NO. 196	NO. 197	NO. 198	NO. 199	NO. 200	NO. 201	NO. 202	NO. 203	NO. 204	NO. 205	NO. 206	NO. 207	NO. 208	NO. 209	NO. 210	NO. 211	NO. 212	NO. 213	NO. 214	NO. 215	NO. 216	NO. 217	NO. 218	NO. 219	NO. 220	NO. 221	NO. 222	NO. 223	NO. 224	NO. 225	NO. 226	NO. 227	NO. 228	NO. 229	NO. 230	NO. 231	NO. 232	NO. 233	NO. 234	NO. 235	NO. 236	NO. 237	NO. 238	NO. 239	NO. 240	NO. 241	NO. 242	NO. 243	NO. 244	NO. 245	NO. 246	NO. 247	NO. 248	NO. 249	NO. 250	NO. 251	NO. 252	NO. 253	NO. 254	NO. 255	NO. 256	NO. 257	NO. 258	NO. 259	NO. 260	NO. 261	NO. 262	NO. 263	NO. 264	NO. 265	NO. 266	NO. 267	NO. 268	NO. 269	NO. 270	NO. 271	NO. 272	NO. 273	NO. 274	NO. 275	NO. 276	NO. 277	NO. 278	NO. 279	NO. 280	NO. 281	NO. 282	NO. 283	NO. 284	NO. 285	NO. 286	NO. 287	NO. 288	NO. 289	NO. 290	NO. 291	NO. 292	NO. 293	NO. 294	NO. 295	NO. 296	NO. 297	NO. 298	NO. 299	NO. 300	NO. 301	NO. 302	NO. 303	NO. 304	NO. 305	NO. 306	NO. 307	NO. 308	NO. 309	NO. 310	NO. 311	NO. 312	NO. 313	NO. 314	NO. 315	NO. 316	NO. 317	NO. 318	NO. 319	NO. 320	NO. 321	NO. 322	NO. 323	NO. 324	NO. 325	NO. 326	NO. 327	NO. 328	NO. 329	NO. 330	NO. 331	NO. 332	NO. 333	NO. 334	NO. 335	NO. 336	NO. 337	NO. 338	NO. 339	NO. 340	NO. 341	NO. 342	NO. 343	NO. 344	NO. 345	NO. 346	NO. 347	NO. 348	NO. 349	NO. 350	NO. 351	NO. 352	NO. 353	NO. 354	NO. 355	NO. 356	NO. 357	NO. 358	NO. 359	NO. 360	NO. 361	NO. 362	NO. 363	NO. 364	NO. 365	NO. 366	NO. 367	NO. 368	NO. 369	NO. 370	NO. 371	NO. 372	NO. 373	NO. 374	NO. 375	NO. 376	NO. 377	NO. 378	NO. 379	NO. 380	NO. 381	NO. 382	NO. 383	NO. 384	NO. 385	NO. 386	NO. 387	NO. 388	NO. 389	NO. 390	NO. 391	NO. 392	NO. 393	NO. 394	NO. 395	NO. 396	NO. 397	NO. 398	NO. 399	NO. 400	NO. 401	NO. 402	NO. 403	NO. 404	NO. 405	NO. 406	NO. 407	NO. 408	NO. 409	NO. 410	NO. 411	NO. 412	NO. 413	NO. 414	NO. 415	NO. 416	NO. 417	NO. 418	NO. 419	NO. 420	NO. 421	NO. 422	NO. 423	NO. 424	NO. 425	NO. 426	NO. 427	NO. 428	NO. 429	NO. 430	NO. 431	NO. 432	NO. 433	NO. 434	NO. 435	NO. 436	NO. 437	NO. 438	NO. 439	NO. 440	NO. 441	NO. 442	NO. 443	NO. 444	NO. 445	NO. 446	NO. 447	NO. 448	NO. 449	NO. 450	NO. 451	NO. 452	NO. 453	NO. 454	NO. 455	NO. 456	NO. 457	NO. 458	NO. 459	NO. 460	NO. 461	NO. 462	NO. 463	NO. 464	NO. 465	NO. 466	NO. 467	NO. 468	NO. 469	NO. 470	NO. 471	NO. 472	NO. 473	NO. 474	NO. 475	NO. 476	NO. 477	NO. 478	NO. 479	NO. 480	NO. 481	NO. 482	NO. 483	NO. 484	NO. 485	NO. 486	NO. 487	NO. 488	NO. 489	NO. 490	NO. 491	NO. 492	NO. 493	NO. 494	NO. 495	NO. 496	NO. 497	NO. 498	NO. 499	NO. 500	NO. 501	NO. 502	NO. 503	NO. 504	NO. 505	NO. 506	NO. 507	NO. 508	NO. 509	NO. 510	NO. 511	NO. 512	NO. 513	NO. 514	NO. 515	NO. 516	NO. 517	NO. 518	NO. 519	NO. 520	NO. 521	NO. 522	NO. 523	NO. 524	NO. 525	NO. 526	NO. 527	NO. 528	NO. 529	NO. 530	NO. 531	NO. 532	NO. 533	NO. 534	NO. 535	NO. 536	NO. 537	NO. 538	NO. 539	NO. 540	NO. 541	NO. 542	NO. 543	NO. 544	NO. 545	NO. 546	NO. 547	NO. 548	NO. 549	NO. 550	NO. 551	NO. 552	NO. 553	NO. 554	NO. 555	NO. 556	NO. 557	NO. 558	NO. 559	NO. 560	NO. 561	NO. 562	NO. 563	NO. 564	NO. 565	NO. 566	NO. 567	NO. 568	NO. 569	NO. 570	NO. 571	NO. 572	NO. 573	NO. 574	NO. 575	NO. 576	NO. 577	NO. 578	NO. 579	NO. 580	NO. 581	NO. 582	NO. 583	NO. 584	NO. 585	NO. 586	NO. 587	NO. 588	NO. 589	NO. 590	NO. 591	NO. 592	NO. 593	NO. 594	NO. 595	NO. 596	NO. 597	NO. 598	NO. 599	NO. 600	NO. 601	NO. 602	NO. 603	NO. 604	NO. 605	NO. 606	NO. 607	NO. 608	NO. 609	NO. 610	NO. 611	NO. 612	NO. 613	NO. 614	NO. 615	NO. 616	NO. 617	NO. 618	NO. 619	NO. 620	NO. 621	NO. 622	NO. 623	NO. 624	NO. 625	NO. 626	NO. 627	NO. 628	NO. 629	NO. 630	NO. 631	NO. 632	NO. 633	NO. 634	NO. 635	NO. 636	NO. 637	NO. 638	NO. 639	NO. 640	NO. 641	NO. 642	NO. 643	NO. 644	NO. 645	NO. 646	NO. 647	NO. 648	NO. 649	NO. 650	NO. 651	NO. 652	NO. 653	NO. 654	NO. 655	NO. 656	NO. 657	NO. 658	NO. 659	NO. 660	NO. 661	NO. 662	NO. 663	NO. 664	NO. 665	NO. 666	NO. 667	NO. 668	NO. 669	NO. 670	NO. 671	NO. 672	NO. 673	NO. 674	NO. 675	NO. 676	NO. 677	NO. 678	NO. 679	NO. 680	NO. 681	NO. 682	NO. 683	NO. 684	NO. 685	NO. 686	NO. 687	NO. 688	NO. 689	NO. 690	NO. 691	NO. 692	NO. 693	NO. 694	NO. 695	NO. 696	NO. 697	NO. 698	NO. 699	NO. 700	NO. 701	NO. 702	NO. 703	NO. 704	NO. 705	NO. 706	NO. 707	NO. 708	NO. 709	NO. 710	NO. 711	NO. 712	NO. 713	NO. 714	NO. 715	NO. 716	NO. 717	NO. 718	NO. 719	NO. 720	NO. 721	NO. 722	NO. 723	NO. 724	NO. 725	NO. 726	NO. 727	NO. 728	NO. 729	NO. 730	NO. 731	NO. 732	NO. 733	NO. 734	NO. 735	NO. 736	NO. 737	NO. 738	NO. 739	NO. 740	NO. 741	NO. 742	NO. 743	NO. 744	NO. 745	NO. 746	NO. 747	NO. 748	NO. 749	NO. 750	NO. 751	NO. 752	NO. 753	NO. 754	NO. 755	NO. 756	NO. 757	NO. 758	NO. 759	NO. 760	NO. 761	NO. 762	NO. 763	NO. 764	NO. 765	NO. 766	NO. 767	NO. 768	NO. 769	NO. 770	NO. 771	NO. 772	NO. 773	NO. 774	NO. 775	NO. 776	NO. 777	NO. 778	NO. 779	NO. 780	NO. 781	NO. 782	NO. 783	NO. 784	NO. 785	NO. 786	NO. 787	NO. 788	NO. 789	NO. 790	NO. 791	NO. 792	NO. 793	NO. 794	NO. 795	NO. 796	NO. 797	NO. 798	NO. 799	NO. 800	NO. 801	NO. 802	NO. 803	NO. 804	NO. 805	NO. 806	NO. 807	NO. 808	NO. 809	NO. 810	NO. 811	NO. 812	NO. 813	NO. 814	NO. 815	NO. 816	NO. 817	NO. 818	NO. 819	NO. 820	NO. 821	NO. 822	NO. 823	NO. 824	NO. 825	NO. 826	NO. 827	NO. 828	NO. 829	NO. 830	NO. 831	NO. 832	NO. 833	NO. 834	NO. 835	NO. 836	NO. 837	NO. 838	NO. 839	NO. 840	NO. 841	NO. 842	NO. 843	NO. 844	NO. 845	NO. 846	NO. 847	NO. 848	NO. 849	NO. 850	NO. 851	NO. 852	NO. 853	NO. 854	NO. 855	NO. 856	NO. 857	NO. 858	NO. 859	NO. 860	NO. 861	NO. 862	NO. 863	NO. 864	NO. 865	NO. 866	NO. 867	NO. 868	NO. 869	NO. 870	NO. 871	NO. 872	NO. 873	NO. 874	NO. 875	NO. 876	NO. 877	NO. 878	NO. 879	NO. 880	NO. 881	NO. 882	NO. 883	NO. 884	NO. 885	NO. 886	NO. 887	NO. 888	NO. 889	NO. 890	NO. 891	NO. 892	NO. 893	NO. 894	NO. 895	NO. 896	NO. 897	NO. 898	NO. 899	NO. 900	NO. 901	NO. 902	NO. 903	NO. 904	NO. 905	NO. 906	NO. 907	NO. 908	NO. 909	NO. 910	NO. 911	NO. 912	NO. 913	NO. 914	NO. 915	NO. 916	NO. 917	NO. 918	NO. 919	NO. 920	NO. 921	NO. 922	NO. 923	NO. 924	NO. 925	NO. 926	NO. 927	NO. 928	NO. 929	NO. 930	NO. 931	NO. 932	NO. 933	NO. 934	NO. 935	NO. 936	NO. 937	NO. 938	NO. 939	NO. 940	NO. 941	NO. 942	NO. 943	NO. 944	NO. 945	NO. 946	NO. 947	NO. 948	NO. 949	NO. 950	NO. 951	NO. 952	NO. 953	NO. 954	NO. 955	NO. 956	NO. 957	NO. 958	NO. 959	NO. 960	NO. 961	NO. 962	NO. 963	NO. 964	NO. 965	NO. 966	NO. 967	NO. 968	NO. 969	NO. 970	NO. 971	NO. 972	NO. 973	NO. 974	NO. 975	NO. 976	NO. 977	NO. 978	NO. 979	NO. 980	NO. 981	NO. 982	NO. 983	NO. 984	NO. 985	NO. 986	NO. 987	NO. 988	NO. 989	NO. 990	NO. 991	NO. 992	NO. 993	NO. 994	NO. 995	NO. 996	NO. 997	NO. 998	NO. 999	NO. 1000
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TIME SPAN	CENTER-LINE POINT	WHOLE BODY HR/HR	THYROID HR/HR	GROSS Rn-19 CPM for 750 LITER ZIRLOTE FILTER
0150-0200	A	4.4	.13	76
	B	153	3.85	714
	C	149	3.86	699
	D	200	5.36	958
	E	171	4.65	813
	F	110	3.23	588
	G	76	2.05	375
	H	64	1.84	311

ARKANSAS POWER & LIGHT COMPANY

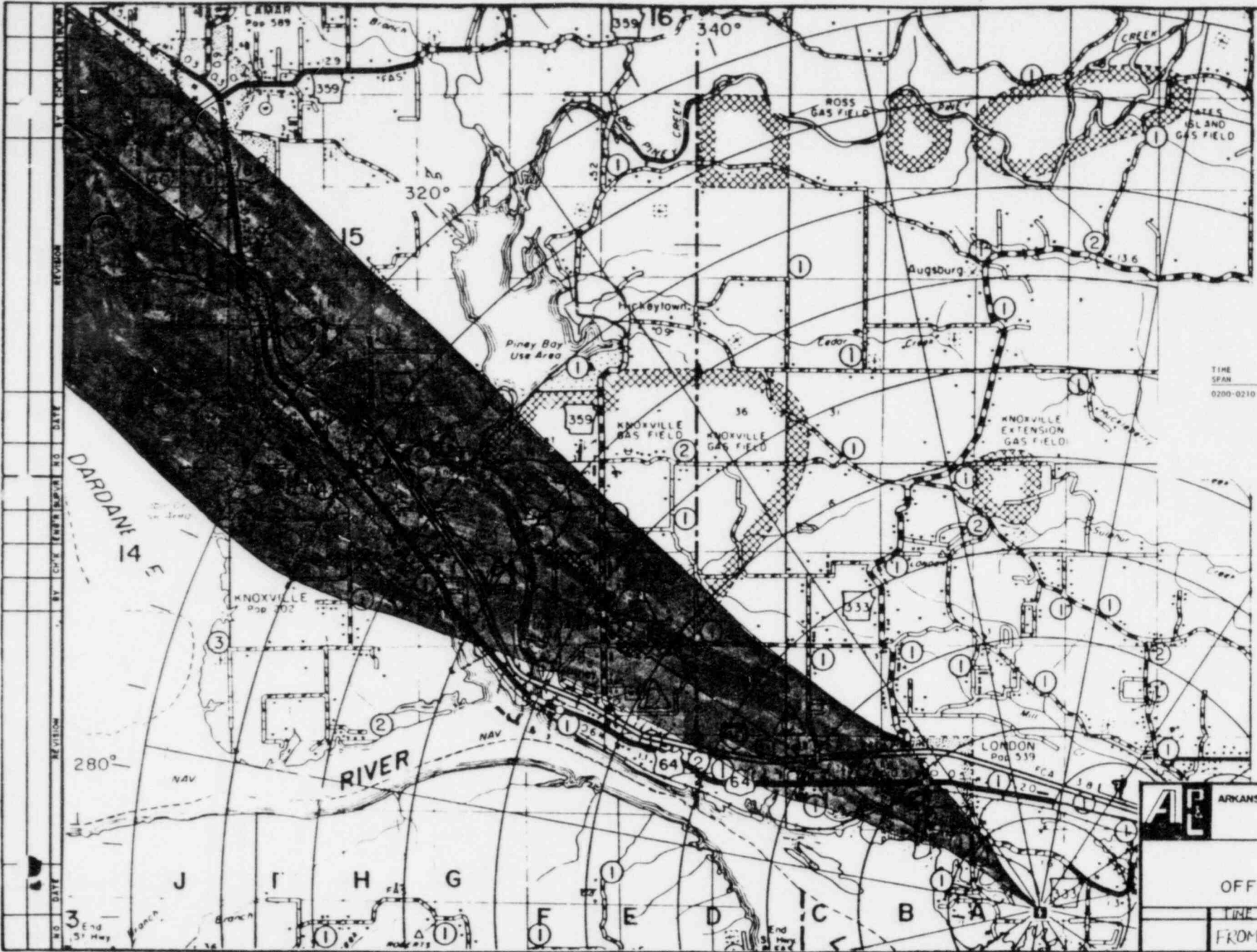
B

REX 1995

OFFSITE DOSE MAP

TIME

FROM 0150 TO 0200



TIME SPAN	CENTER-LINE POINT	WHOLE BODY HR/HR	THYROID HR/HR	GROSS RATE-14 CPM for 750 LITER ZEO-LITE FILTER
0200-0210	A	15.5	36	101
	B	171	4.09	804
	C	125	3.66	655
	D	173	4.99	861
	E	170	4.81	842
	F	118	3.23	523
	G	75	2.29	410
	H	64	1.98	377

ARKANSAS POWER & LIGHT COMPANY

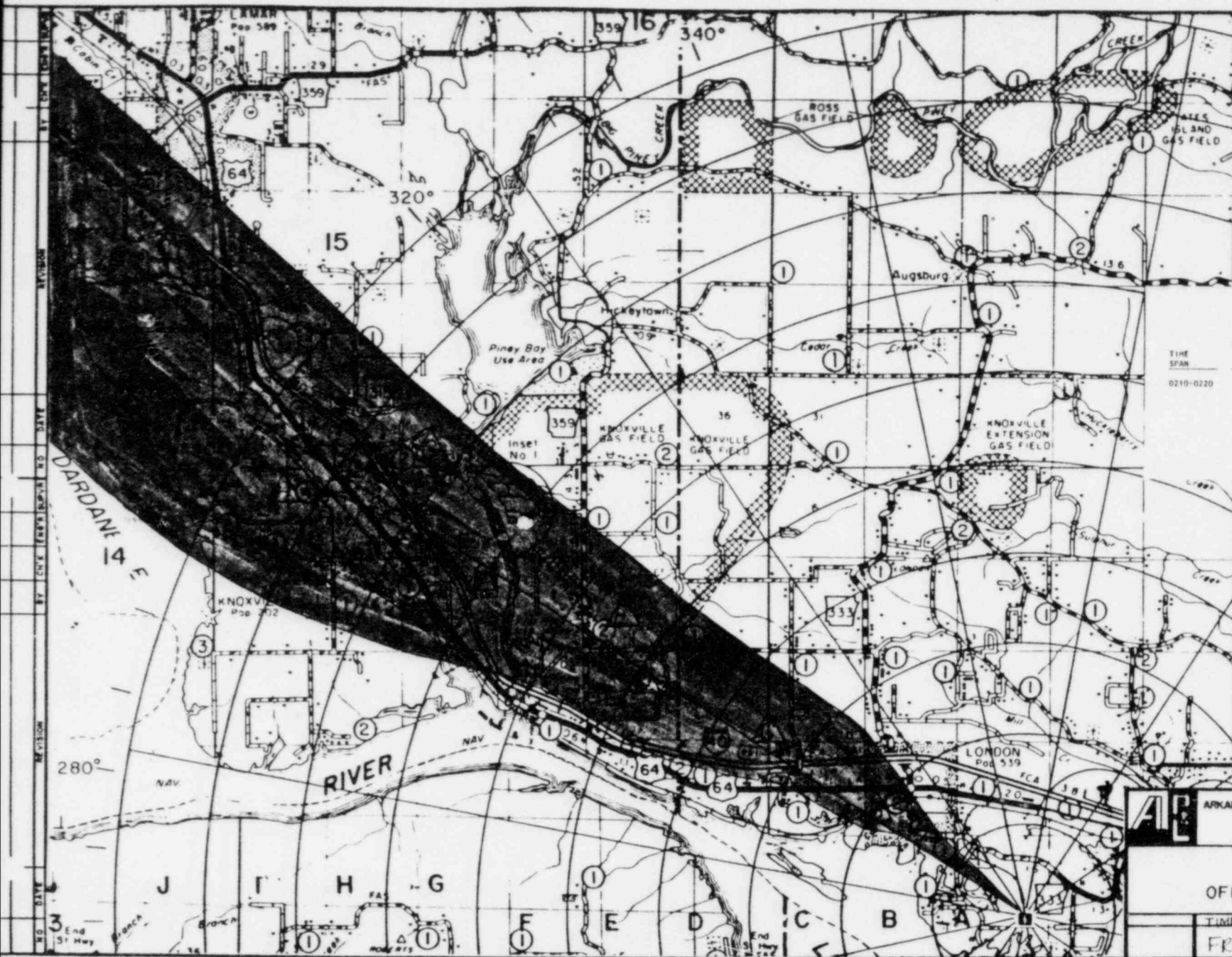
B

REX 1985


OFFSITE DOSE MAP

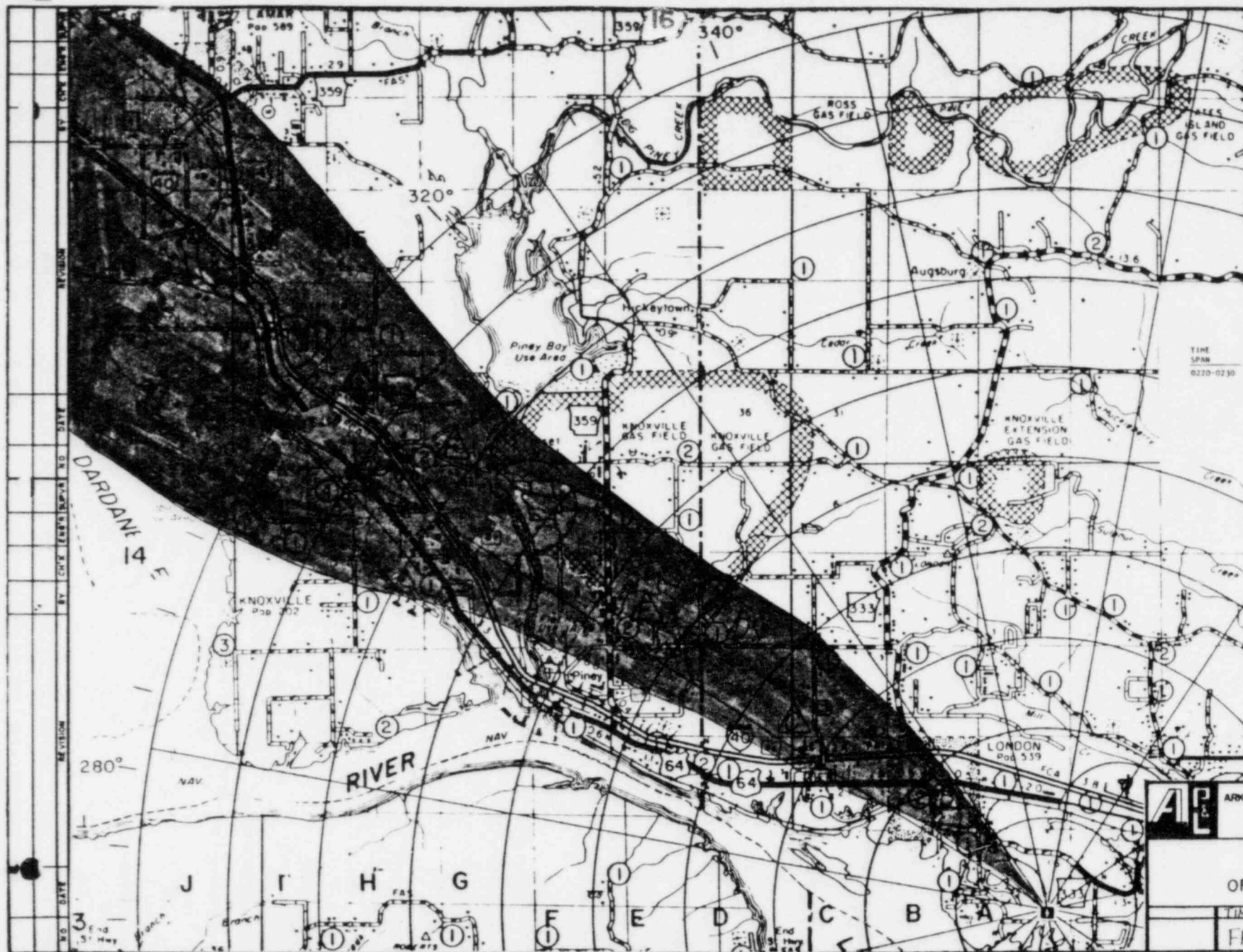
TIME

FROM 0200 TO 0210




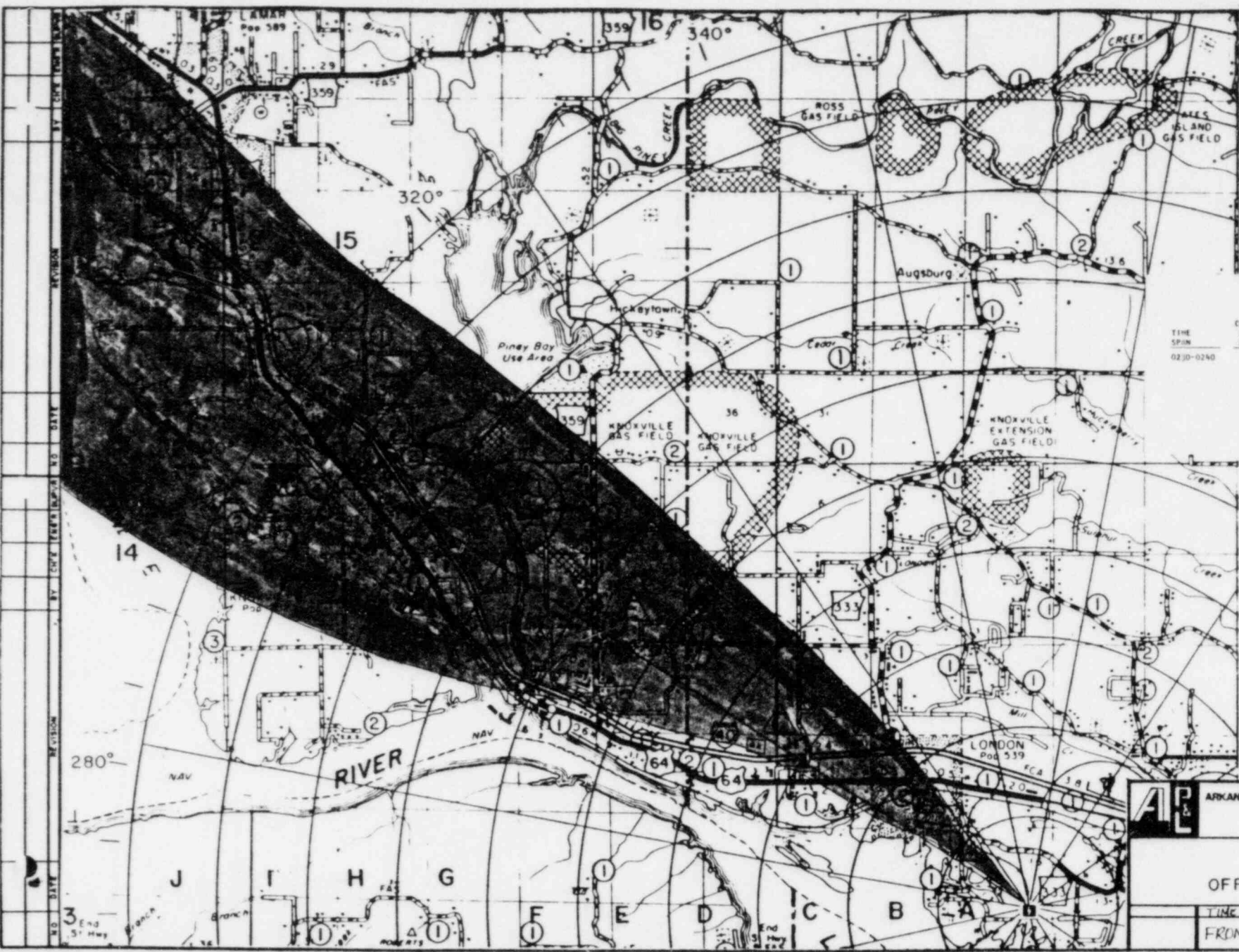
TIME SPAN	CENTER- LINE POINT	WHOLE BODY MR/HR	THYROID MR/HR	GROSS MR-14 CPM For 750 LITER ZEOLITE FILTER
0210-0220	A	12.5	.32	104
	B	163	2.99	593
	C	123	2.96	537
	D	144	3.48	655
	E	142	4.11	720
	F	120	3.48	606
	G	36	2.57	467
	H	70	1.91	358

	ARKANSAS POWER & LIGHT COMPANY	SIZE B
	REX 1985 OFFSITE DOSE MAP	
TIME FROM 0210 TO 0220		




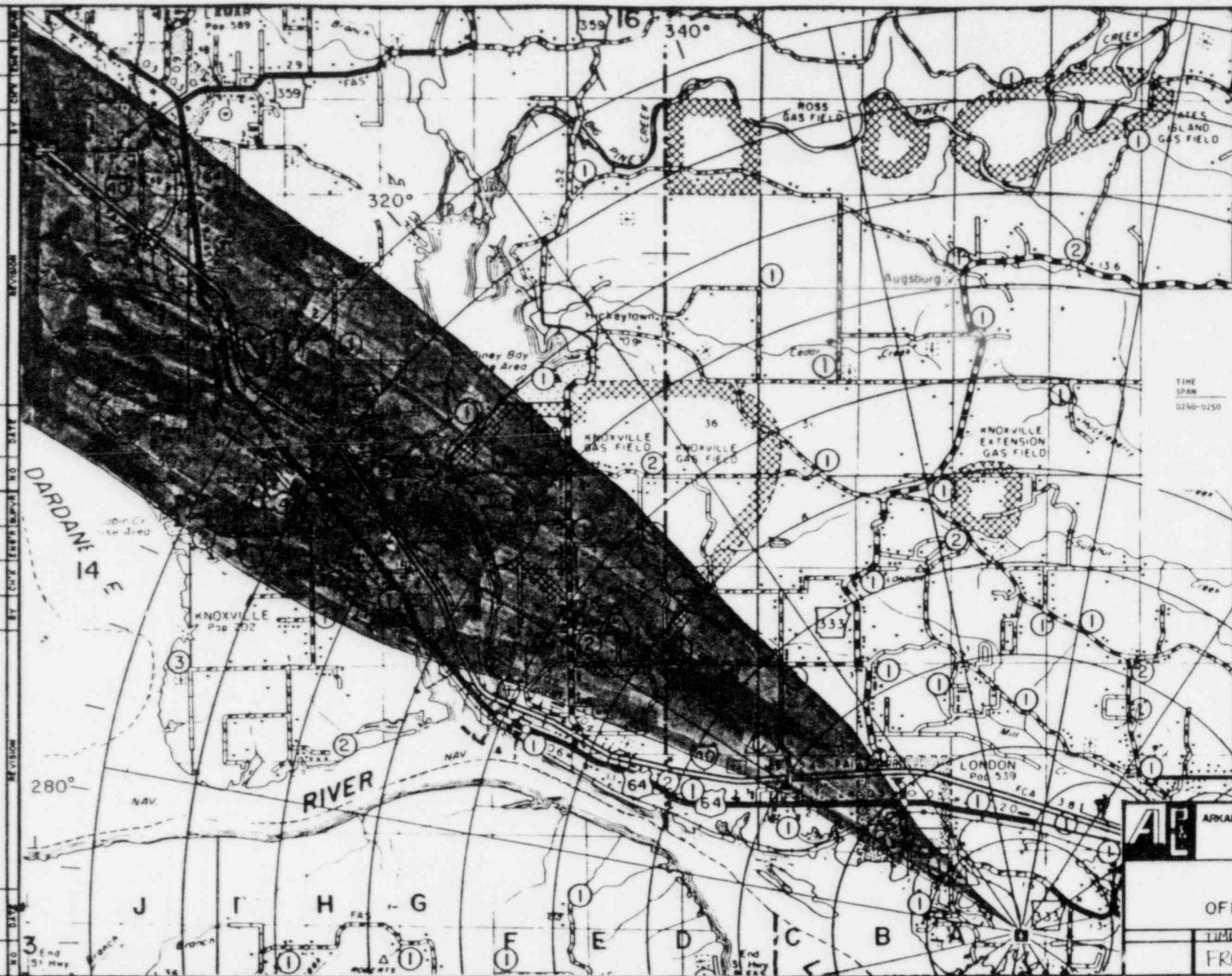
TIME	CENTER- LINE POINT	WHOLE BODY HR/HR	THYROID HR/HR	GROSS RM-16 CPM For 750 LITER ZEOLITE FILTER
0220-0230	A	6	.2	85
	B	42	1.00	215
	C	133	2.63	495
	D	130	2.74	503
	E	112	3.45	621
	F	83	2.52	468
	G	62	1.92	364

 ARKANSAS POWER & LIGHT COMPANY		SIZE B
REX 1985 OFFSITE DOSE MAP		
TIME FROM 0220 TO 0230		




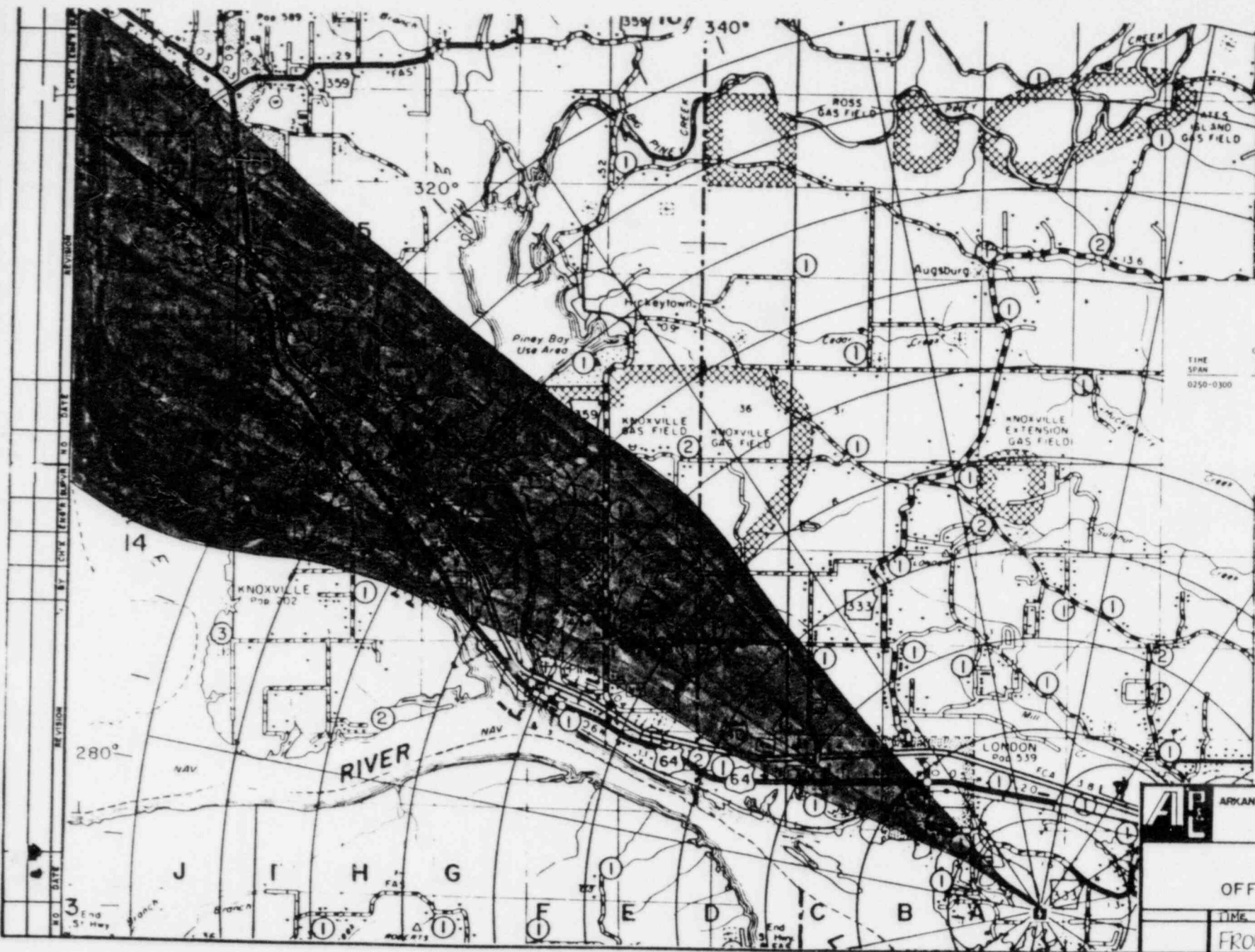
TIME SPIN	CENTER- LINE POINT	WHOLE BODY MR/MR	THYROID MR/MR	GROSS RM-14 CPM for 750 LITER ZEO-LITE FILTER
0230-0240	A	5	.18	81
	B	42.2	1.12	233
	C	87.9	1.82	357
	D	87.1	2.21	409
	E	104	2.25	410
	F	95.4	2.58	498
	G	67.9	2.04	375

	ARKANSAS POWER & LIGHT COMPANY	SIZE B
	REX 1985 OFFSITE DOSE MAP	
TIME FROM 0230 TO 0240		




TIME SPAN	CENTER- LINE POINT	WHOLE BODY MR/HR	THYROID MR/HR	GROSS RN-14 CPM For 750 LITER 200 LITE FILTER	
0240-0250	A	5.4	.12	72	
	B	26	.56	145	
	C	56.4	1.31	305	
	D	65.6	1.22	251	
	E	64.7	1.63	326	
	F	78.0	2.16	408	
	G	78.5	2.43	452	
	H	74.3	2.28	513	

 ARKANSAS POWER & LIGHT COMPANY		SIZE B
REX 1985 OFFSITE DOSE MAP		
TIME FROM 0240 TO 0250		



TIME SPAN	CENTER- LINE POINT	WHOLE BODY HR/HR	THYROID HR/HR	GROSS RH-14 CPM for 250 LITER ZEO-LITE FILTER
				FILTER
0250-0300	A	5.2	.11	69
	B	11	.28	97
	C	42.8	.87	202
	D	40.9	.74	173
	E	42.4	.86	182
	F	67.1	1.34	275
	G	65.6	2.06	393
	H	67.8	2.18	404

	ARKANSAS POWER & LIGHT COMPANY		SIZE B
	REX 1985 OFFSITE DOSE MAP		
TIME			
FROM 0250 To 0300			

APPENDIX F
PUBLIC INQUIRY MESSAGES

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 1

TO: Russellville Business Office - 968-5050

FROM: Public Inquiry Controller

TIME: 2000 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

"I live near Dover. There's a rumor that there is some kind of problem at Arkansas Nuclear One. Is that true? Do you plan to activate the sirens? Should we go on to bed or wait up to see if we need to evacuate?"

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 2

TO: Russellville Business Office - 968-5050

FROM: Public Inquiry Controller

TIME: 2030 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

"I'm from London. I hear there's a serious problem at the nuclear plant tonight. I'm really concerned for the safety of my family. Has there been radiation released? Are we supposed to leave our home? If so, where do we go? We're all really scared. Are we in a lot of danger?"

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 3

TO: Russellville Business Office - 968-5050
FROM: Public Inquiry Controller
TIME: 2045 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

"This is the News Director for Channel 7 in Little Rock. I would like to speak to the person in charge at Arkansas Nuclear One."

(If able to talk to someone, ask questions concerning the accident, health effects, rumor of injuries, etc.)

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 4

TO: TSC Communications 6601
FROM: Public Inquiry Controller
TIME: 2130 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

You are with the Washington Post and just heard about the emergency at Arkansas Nuclear One. You would like full details and the latest status update.

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 5

TO: ANO Switchboard 3100
FROM: Public Inquiry Controller
TIME: 2140 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

You are with the Washington Post and just heard about the emergency at Arkansas Nuclear One. You would like full details and the latest status update.

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 6

TO: ANO Switchboard 3100
FROM: Public Inquiry Controller
TIME: 2200 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

"This is the News Director for KTHV Channel 11 - Little Rock. I would like to speak to the person in charge at Arkansas Nuclear One."

(If able to talk to someone, ask questions concerning the accident, health effects, rumor of injuries, etc.)

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 7

TO: TSC Communications 6601
FROM: Public Inquiry Controller
TIME: 2210 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

"I'm from London. I hear there's a serious problem at the nuclear plant tonight. I'm really concerned for the safety of my family. Has there been radiation released? Are we supposed to leave our home? If so, where do we go? We're all really scared. Are we in a lot of danger?"

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 8

TO: ANO Switchboard 3100
FROM: Public Inquiry Controller
TIME: 2230 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

"This is the News Director for KARN Radio in Little Rock. I would like to speak to the person in charge at Arkansas Nuclear One."

(If able to talk to someone, ask questions concerning the accident, health effects, rumor of injuries, etc.)

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 9

TO: ANO Switchboard 3100
FROM: Public Inquiry Controller
TIME: 2300 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

"This is the News Director for KARK-TV, Channel 4 in Little Rock. I would like to speak to the person in charge at Arkansas Nuclear One."

(If able to talk to someone, ask questions concerning the accident, health effects, rumor of injuries, etc.)

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 10

TO: ANO Switchboard 3100
FROM: Public Inquiry Controller
TIME: 2330 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

"This is the News Director for ABC News - New York. I would like to speak to the person in charge at Arkansas Nuclear One."

(If able to talk to someone, ask questions concerning the accident, health effects, rumor of injuries, etc.)

WP850265C

RUX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 11

TO: ANO Switchboard 3100
FROM: Public Inquiry Controller
TIME: 0015 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

"This is the News Director for WTBS in Atlanta. I would like to speak to the person in charge at Arkansas Nuclear One."

(If able to talk to someone, ask questions concerning the accident, health effects, rumor of injuries, etc.)

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 12

TO: Emergency Operations Facility 6800
FROM: Public Inquiry Controller
TIME: 0030 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

You are with the Washington Post and just heard about the emergency at Arkansas Nuclear One. You would like full details and the latest status update.

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 13

TO: ANO Switchboard
FROM: Public Inquiry Controller
TIME: 0040 Hours

MESSAGE: * ~~~~~~
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *
* ~~~~~~

"I live near Dover. There's a rumor that there is some kind of problem at Arkansas Nuclear One. Is that true? Do you plan to activate the sirens? Should we go on to bed or wait up to see if we need to evacuate?"

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 14

TO: Emergency Coordinator 6604
FROM: Public Inquiry Controller
TIME: 0045 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

"Hello, this is John Hearst from the Los Angeles Times. We have just received reports over the Associated Press wire that there is an emergency situation at Arkansas Nuclear One. Could you please tell me the nature of the problem and number of injuries at the site. What is the latest status report of the plant? Have there been any press briefings at the plant site? What other information could you give me that would be of interest to our readers?"

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 15

TO: EOFD

FROM: Public Inquiry Controller

TIME: 0050 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

You are with the Washington Post and just heard about the emergency at Arkansas Nuclear One. You would like full details and the latest status update.

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 16

TO: EOF 6800
FROM: Public Inquiry Controller
TIME: 0100 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

"I live near Dover. There's a rumor that there is some kind of problem at Arkansas Nuclear One. Is that true? Do you plan to activate the sirens? Should we go on to bed or wait up to see if we need to evacuate?"

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 17

TO: EOF 6800
FROM: Public Inquiry Controller
TIME: 0115 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

"I'm a concerned resident from Yell county. I hear there's a meltdown happening at the nuclear plant. What is that? What is the China, Chinese, or Japanese Syndrome? Are we having one of those too? Do we need to do something?"

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 18

TO: Communications Manager -6461
FROM: Public Inquiry Controller
TIME: 0120 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

"Hello, this is John Hearst from the Los Angeles Times. We have just received reports over the Associated Press wire that there is an emergency situation at Arkansas Nuclear One. Could you please tell me the nature of the problem and number of injuries at the site. What is the latest status report of the plant? Have there been any press briefings at the plant site? What other information could you give me that would be of interest to our readers?"

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 19

TO: EOF - 6800
FROM: Public Inquiry Controller
TIME: 0130 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

This is Gene Lavender, Superintendent of the Russellville Schools. I hear that there is some sort of problem at the nuclear plant. I would like some more information so I can determine whether or not school should be cancelled for tomorrow.

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 20

TO: Media Center
FROM: Public Inquiry Controller
TIME: 0135 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

"Hello, this is John Hearst from the Los Angeles Times. We have just received reports over the Associated Press wire that there is an emergency situation at Arkansas Nuclear One. Could you please tell me the nature of the problem and number of injuries at the site. What is the latest status report of the plant? Have there been any press briefings at the plant site? What other information could you give me that would be of interest to our readers?"

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 21

TO: Communications Manager - 6461

FROM: Public Inquiry Controller

TIME: 0140 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

"What is happening over there? You all have really done it this time. You are going to kill us all. I hear people are dying in the nuclear plant and it's just a matter of time until all of Pope county gets a fatal dose of radiation. What are you all doing about this?"

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 22

TO: Media Center
FROM: Public Inquiry Controller
TIME: 0150 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

"I'm from London. I hear there's a serious problem at the nuclear plant
tcaight. I'm really concerned for the safety of my family. Has there been
radiation released? Are we supposed to leave our home? If so, where do we
go? We're all really scared. Are we in a lot of danger?"

WP850265C

REX-85

PUBLIC INQUIRY/MEDIA MESSAGE NO. 23

TO: EOF 6800
FROM: Public Inquiry Controller
TIME: 0200 Hours

MESSAGE: *****
* THIS IS A DRILL *
* Do not initiate actions which may affect normal *
* plant conditions. *

"I'm a dairy farmer in the area. I hear that there's a radioactivity leaking from the nuclear plant. Is this going to affect my cows? Is the milk going to be bad? Are my cows going to be shot by the Health Department? Is radioactivity as bad as brucellosis?"

WP850265C
