

WOLF CREEK

NUCLEAR OPERATING CORPORATION

June 15, 1995

Otto L. Maynard
Vice President Plant Operations

WO 95-0102

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
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Washington, D. C. 20555

Subject: Docket No. 50-482: Emergency Preparedness 1995 Field
Exercise Scenario

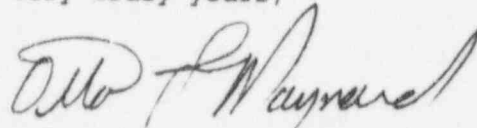
NOTE: This transmittal contains Emergency Preparedness exercise information that should not be released to the Public Document Room before August 31, 1995.

Gentlemen:

This letter transmits Wolf Creek Generating Station's Emergency Preparedness Field Exercise Scenario for the 1995 Exercise which is scheduled to be conducted August 15 and 16, 1995.

If you should have any questions regarding this submittal, please contact me at (316) 364-8831, extension 4450, or Mr. Richard D. Flannigan at extension 4500.

Very truly yours,



Otto L. Maynard

OLM/jra

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10/5/95

(9506190437) XA

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EX 19.1

1995 GRADED EXERCISE

15-16 AUGUST 95

TIN GE-77-356-10 Rev. 0

SECTION 1.0
INTRODUCTION

Exercise participants do not have prior knowledge of the accident scenario or of the starting time of the Exercise. The Exercise should demonstrate that those individuals and agencies who are assigned responsibilities in a radiological emergency are adequately trained to perform according to current plans and procedures. Furthermore, this Exercise will provide training for emergency response personnel, and identify any potential problem areas in the overall emergency response system.

This manual has been prepared to assist the Exercise controllers, evaluators, and observers in the conduct and evaluation of the Exercise. It contains all of the information and data necessary to properly conduct this Exercise in an efficient and coordinated manner, and is organized as follows:

Section 2.0 Objectives and Guidelines

This section defines the Exercise objectives for the licensee, State of Kansas, and Coffey County, and sets forth guidelines for the conduct of the Exercise to meet those objectives.

Section 3.0 Scenario and Timeline

This section describes the postulated sequence of events occurring at WCGS which requires the ERO to respond.

Section 4.0 Controller Messages

This section contains the Exercise messages used to control the development of the Exercise scenario.

Section 5.0 Plant Data

This section contains information concerning designated plant parameters. These parameters are updated every 15 minutes throughout the Exercise. To ensure that adequate operational data is available in the event of a simulator failure, tables of plant parameter information have been included in this section.

Section 6.0 Meteorological Data

This section contains information about the meteorological conditions in the Coffey County area during the conduct of the Exercise. These parameters are updated every 15 minutes throughout the Exercise. To ensure that adequate meteorological data is available in the event of a simulator failure, tables of plant parameter information have been included in this section.

Section 7.0 Onsite Radiological Data

This section contains information about radiological conditions at the various onsite monitoring locations. Also included in this section is information concerning primary and secondary systems radiochemistry, containment atmosphere radiochemistry, and in-plant radiation levels. These parameters are updated every 15 minutes when parameters are changing. To ensure that adequate chemistry data is available in the event of a simulator failure, tables of plant parameter information have been included in this section.

Section 8.0 Offsite Radiological Data

This section contains information about radiological conditions at the various offsite monitoring locations.

Section 9.0 Controllers' Instructions

This section provides general instructions to the Exercise controllers in the conduct of the Exercise. For this Exercise, separate evaluators shall also evaluate the responses of the Exercise participants and the

progress of the Exercise. Evaluator notes shall be included on the controllers log sheets. Blank PIR forms are also included for player and Evaluator/Controller comments.

SECTION 2.0

OBJECTIVES AND GUIDELINES

<u>Subsections</u>	<u>Page</u>
OBJECTIVES	2.1
GUIDELINES	2.4

**Objectives To Be Demonstrated For The NRC
During The Wolf Creek Exercise - August 15-16, 1995**

1. The Technical Support Center/Operations Support Center(TSC/OSC), Emergency Operations Facility(EOF) and the Information Clearinghouse/Media Release Center(IC/MRC) will be staffed and activated according to the instructions in the Emergency Planning Procedures(EPPs).
2. Management of the Control Room, TSC/OSC, EOF and IC/MRC will respond effectively to the emergency. The lead personnel in these facilities will make timely and effective decisions regarding emergency response efforts.
3. The staff in the Control Room, TSC/OSC and EOF will assess the emergency conditions in order to prepare appropriate mitigative priorities, properly classify the events and to recommend offsite protective actions. Each facility may not perform each of these actions depending on the timing of turnover of responsibilities between facilities.
4. Notification of emergency conditions or protective action recommendations to the State of Kansas, Coffey County and the NRC will be performed by the Control Room, TSC/OSC and the EOF. This will include the use of the Emergency Notification System(ENS). The use of radios as the backup method of notifying the State and County will be demonstrated as part of a FEMA objective. Proper demonstration of this item should result in closing a previously identified NRC weakness.
5. Communications (e.g., phone, fax or radio) between facilities and teams in support of emergency response activities will be demonstrated. Proper demonstration of this item should result in closing a previously identified NRC weakness.
6. Radiological exposure to persons staffing the facilities and teams will be maintained as low as reasonably achievable (ALARA).
7. Rumors identified during the Exercise will be confirmed or denied as part of the activities of the Phone Team or the IC/MRC.
8. Ingestion pathway activities will be conducted in support of the State and County. Ingestion pathway activities are primarily focused on the responsibilities of the State and County to relocate, return or allow reentry to those offsite persons affected by the release.
9. Field Teams will collect environmental samples as directed by either the Dose Assessment Coordinator in the TSC or the Radiological Assessment Supervisor in the EOF. These samples may include air, water, soil or vegetation.
10. Dispatch and coordination of onsite monitoring/repair teams shall be demonstrated by the Control Room and the TSC/OSC.
11. The radiological release from the plant will be characterized by either the TSC/OSC or the EOF radiological assessment staff as to its magnitude and offsite impact.
12. The TSC/OSC and EOF will review and discuss plant recovery and reentry activities following the termination of the release.
13. Post-accident sampling will be demonstrated in order to identify the source term for the radiological release.
14. Personnel accountability will be maintained within the TSC/OSC and EOF.
15. Habitability of the Control Room, TSC/OSC and EOF will be periodically assessed.
16. The IC/MRC will disseminate accurate and timely information either through scheduled news conferences or the Phone Team.
17. The TSC/OSC and EOF shall demonstrate assistance and support to the Control Room for mitigation of the emergency conditions.
18. The NRC will co-locate with WCNO staff in the TSC/OSC, EOF and IC/MRC. The WCNO staff will interact with the NRC Site Team, NRC Base Team and the NRC Operations Center to keep them informed of plant status and emergency response activities.

**Objectives To Be Demonstrated For The NRC
During The Wolf Creek Exercise - August 15-16, 1995**

19. Good radiological protection practices shall be demonstrated within the Control Room, TSC/OSC and the EOF. Proper demonstration of this item should result in closing a previously identified NRC weakness.
20. Good scenario preparation and adequate scenario control shall be demonstrated throughout the Exercise. Proper demonstration of this item should result in closing a previously identified NRC weakness.

OBJECTIVE	STATE EOC	DOSE ASSM. & F.T. COORD.	FIELD MONIT. PLUME EPZ	FIELD MONIT. INGES.	IC/MRC	ST. FRWRD STAGING AREA	RAD LAB.	EOF	COFFEY CO. EOC	USD 244 BURL.	LYON CO. RECEPTION CNTR.	COFFEY CO. HOSP.	COFFEY CO. AMB.	COFFEY CO. R. & B.	COFFEY CO. DECON.
1. Mobilization of Personnel	DEM	DEM	DEM	DEM	DEM	DEM	N/A	DEM	DEM	N/A	DEM	N/A	N/A	DEM	DEM
2. Facilities, equip. & displays	DEM	DEM	N/A	N/A	DEM	N/A	N/A	DEM	DEM	N/A	N/A	N/A	N/A	DEM	N/A
3. Direct & Control	DEM	DEM	N/A	N/A	N/A	N/A	N/A	N/A	DEM	N/A	DEM	N/A	N/A	DEM	DEM
4. Communications	DEM	DEM	DEM	DEM	DEM	DEM	N/A	DEM	DEM	DEM	DEM	N/A	N/A	DEM	DEM
5. Worker Expos. Cntrl.	N/A	DEM	DEM	DEM	N/A	DEM	DEM	DEM	DEM	DEM	DEM	DEM	DEM	DEM	DEM
6. Field Monitoring	N/A	N/A	DEM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7. Plume Dose Project	N/A	DEM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8. Radioiodine Sample	N/A	N/A	DEM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9. Plume Prot. Actions	DEM	DEM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10. Public Alert 15 min.	DEM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DEM	N/A	N/A	N/A	N/A	N/A	N/A
11. Public Information	DEM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DEM	N/A	N/A	N/A	N/A	N/A	N/A
12. Media Briefings	N/A	N/A	N/A	N/A	DEM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13. Rumor Control	N/A	N/A	N/A	N/A	DEM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14. KI - Emer. Workers	N/A	DEM	DEM	N/A	N/A	DEM	N/A	DEM	DEM	DEM	N/A	DEM	DEM	DEM	DEM
15. Implem. Prot. Act.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DEM	N/A	N/A	N/A	N/A	DEM	N/A
16. School Prot. Act.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DEM	DEM	N/A	N/A	N/A	N/A	N/A
17. Traffic & Access Cntrl.	DEM	N/A	N/A	N/A	N/A	DEM	N/A	N/A	DEM	N/A	N/A	N/A	N/A	DEM	N/A
18. Regis. & Monit.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DEM	N/A	N/A	N/A	N/A
19. Fac. for Cong. Care	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DEM	N/A	N/A	N/A	N/A
20. Emer. Med. Svcs.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DEM	N/A	N/A
21. Hospital Oper.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DEM	N/A	N/A	N/A
22. Wrkr/Veh. Decon.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DEM	N/A	N/A	N/A	N/A
23. Asst. Requests	08/97	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DEM
24. Inges. Smpl. Collec.	N/A	N/A	DEM	DEM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
25. Inges. Lab. Oper.	N/A	N/A	N/A	N/A	N/A	N/A	DEM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
26. Inges. Dose Proj.	N/A	DEM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
27. Inges. Prot. Act.	DEM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
28. Recov./Reent. Decis.	DEM	DEM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
29. Recov./Reent. Act.	DEM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DEM	N/A	N/A	N/A	N/A	N/A	N/A
30. Shift Change	08/97	08/97	DEM	N/A	12/99	12/99	DEM	12/99	DEM	N/A	DEM	N/A	N/A	DEM	DEM
31. On-site Evac. Sppt.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12/99	N/A	N/A	N/A	N/A	N/A	N/A
32. UN/Ann. Exer./Drill	09/98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	09/98	N/A	N/A	N/A	N/A	N/A	N/A
33. Off-hr. Exer./Drill	09/98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	09/98	N/A	N/A	N/A	N/A	N/A	N/A

ONSITE GUIDELINES

These guidelines define the licensee participants' extent of play in demonstrating the previously listed objectives.

- A. The Exercise will be conducted August 15 and 16, 1995.
- B. Participants will not have prior knowledge of the scenario or time of the Exercise. However, they will receive a briefing on the guidelines for the Exercise.
- C. There will be pre-staging of licensee participants in the Wolf Creek Generating Station (WCGS) Simulator and outside the Information Clearinghouse (IC) and Media Release Center (MRC) in Topeka. The Licensee IC/MRC participants will only be allowed into those facilities after simulating an appropriate travel time (~75 minutes following the declaration of an Alert). Station operators will also be pre-staged in the TSC. Their normal dispatch point is from the Control Room. This pre-staging reduces impacts to normal Control Room activities.
- D. Personnel will be notified of emergency conditions through methods normally employed in making notifications (e.g., GAI-tronics, pager activation or Security). The site evacuation alarm will be activated at the Alert and higher classifications. No site evacuation will occur.
- E. The following emergency response facilities/functions will be participating in the Exercise:
 - Licensee - Wolf Creek Nuclear Operating Corp.
 - a. Control Room (CR)
 - b. Technical Support Center/Operations Support Center (TSC/OSC)
 - c. Emergency Repair/Damage Control (ERDC) Teams
 - d. Security (SEC)
 - e. Offsite Monitoring Teams (OMTs)
 - f. Emergency Operations Facility (EOF)
 - g. Information Clearinghouse/Media Release Center (IC/MRC)
 - h. General Office - KCP&L GO
 - i. Phone Team (EOF)
- F. The CR will be simulated from the plant simulator. A full shift complement of reactor operators plus the Shift Supervisor will staff the simulator.
- G. All communications involving the CR will be duplicated in the simulator, except for the Emergency Notification System (ENS) dedicated line and the State/County radios. A commercial telephone will be used in the simulator for the ENS. If the State or County need to be notified as part of the drill by radio from the Control Room, the Shift Clerk will use the radios in the EOF, since there are no radios in the simulator.

ONSITE GUIDELINES

- H. Fire protection panels (KC008) are not duplicated on the plant simulator and will be simulated.
- I. Operational and meteorological initial conditions will be established prior to the start of the exercise and will be distributed to those players who would, under actual conditions, be aware of this information.
- J. Participation by onsite personnel directly involved with emergency response shall be carried out to the fullest extent possible without affecting plant operations or plant safety. Dispatch of teams into the power block will occur as required. Use of SCBA, respirators and PCs will be dictated by environmental conditions the day of the drill. Safety Services personnel will make the decision on what to simulate on the morning of the drill.
- K. The phrase, "This is a drill", will begin and end all radio and telephone transmissions performed in response to scenario events.
- L. If the scenario requires that any personnel working for an organization not participating be contacted, they shall be contacted for the purpose of checking communications only.
- M. Additional ERO personnel may be called in to supplement the regular ERO staffing.
- N. The licensee's extent-of-play for August 16 will only include the Wolf Creek Public Information Officer, a News Release Writer and a Secretary. These individuals will be located in the IC at Topeka and are supporting the State Public Information Officer. The State of Kansas takes the lead for ingestion pathway.
- O. The Recovery objective will be completed through the development of the steps that WCNOC must accomplish to return the plant to a condition which is ready for operation.
- P. The Emergency Response Data System (ERDS) will be using data from the Simulator. The NRC Incident Response Center and the State of Kansas will be receiving ERDS data during the Exercise.
- Q. If Potassium Iodide is recommended for use by emergency workers, its actual ingestion will be simulated.
- R. If parts or tools are needed from the Warehouse/Tool Shop they will be procured and brought to the check out counter, confirmed to be the correct tool / part, then returned to the Warehouse / Tool Shop.
- S. Drill participants will simulate entry into hazardous areas of plant if they are required to do so by the scenario.

OFFSITE GUIDELINES

- A. The Exercise will be conducted on August 15 and 16, 1995. Those facilities demonstrating their objectives out-of-sequence are noted below.
 - B. Participants will not have prior knowledge of the scenario or time of the Exercise. However, they will receive a briefing on the guidelines for the Exercise.
 - C. There will be pre-positioning of personnel only at the Lyon County Reception and Care Center. All other mobilization calls will be made.
 - D. Personnel will be notified of emergency conditions through methods normally employed in making notifications (e.g., telephone calls); however, backup communication links identified in the plans will be demonstrated by a controller inject message.
 - E. Actual siren and tone alert radio activation will be simulated.
 - F. The following facilities will be activated:
 - 1. State - Kansas
 - a. Emergency Operations (SEOC) Key Personnel
 - b. Emergency Operations Facility (EOFS)
 - 1. Radiological Assessment
 - 2. Emergency Management
 - c. Information Clearinghouse (IC)
 - d. Media Release Center (MRC)
 - e. State Forward Staging Area (SFSA)
 - f. WIBW Radio
 - g. Radiation Laboratory*
 - 2. Local
 - a. Coffey County
 - 1. Emergency Operations Center (CEOC)
 - 2. County Road and Bridge Department (CRBD)
 - 3. Information Clearinghouse (IC)
 - 4. Media Release Center (MRC)
 - 5. Coffey County Ambulance Service** (Amb)
 - 6. Coffey County Hospital** (Hosp)
 - 7. USD 244** (School)
 - b. Lyon County
 - 1. Reception and Care Center*** (RCCS)
- * to be demonstrated on August 16, 1995 at 9 a.m.
** to be demonstrated on August 14, 1995 at approximately 10 a.m. for the school portion and 1 p.m. for the Hospital/Ambulance Service portion.
*** to be demonstrated on August 10, 1995 at 10 a.m.

OFFSITE GUIDELINES

- G. The Phone Team at the EOF and the Media Monitoring Team at the KCPL General Office will be activated with any identified rumors being transmitted to the Information Clearinghouse to be addressed.
- H. The Burlington School evaluation will be done by interview of the Superintendent, appropriate staff members, and one bus driver.
- I. The following will apply to the evaluation at Lyon County Reception and Care Center:
 - 1. Monitoring of jail prisoners will be demonstrated.
 - 2. Congregate care will be demonstrated by interview and a walk-through of facilities.
 - 3. 24-hour staffing will be demonstrated by interview only.
- J. Demonstration of 24-hour staffing applies to the following:
 - 1. EPZ Field Monitoring Teams
 - 2. Coffey County EOC
 - 3. Coffey County Decontamination Group
 - 4. Coffey County Road and Bridge Department
- K. The phrase, "This is a drill", will begin and end all radio and telephone transmissions performed in response to scenario events.
- L. If the scenario requires that any personnel working for an organization not participating be contacted, they shall be contacted for the purpose of checking communications only.

SECTION 3.0

SCENARIO AND TIMELINE

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Initial Conditions	3.1
Initial Chemistry Data Sheets	3.2
TIMELINE	
Narrative Summary	3.8
Timeline	3.9

SCENARIO

A summary of the scenario events is provided in the following subsection.

Operational events will be conducted as written. Other events may vary from those written according to the actions of the players.

INITIAL CONDITIONS

Operations

The unit is operating at 100% steady state power with middle of life (MOL) conditions. The "B" RHR pump is out of service for preventative maintenance to perform an oil change. The "B" RHR Pump is expected to be returned to service later today. The "B" Safety Injection Pump is out of service to fix oil leaks.

Meteorological

It is a partly cloudy day with winds out of the south southwest at 5 mph. The National Weather Service has indicated a chance for rain for eastern Kansas which includes Coffey County. Daytime temperatures are expected to be in the mid to upper eighties.

PLANT CHEMISTRY SUMMARY SHEET

LABORATORY: PRIMARY LAB

Date: Aug. 14, 1995

Time	Analysis	Results	Out of Spec	Remarks
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BAT "A"

0710	BORON	7104	PPM	
0710	CL	3	PPB	
0710	F	3	PPB	
0710	TOC	0.40	PPM	

REACTOR COOLANT ALL SAMPLE PTS

0705	B	917	PPM	
0705	CL	4	PPB	
0705	COND	26.9	US/CM	
0705	DO	<5	PPB	
0705	F	4	PPB	
0705	LI	2.28	PPM	
0705	NH3	0.75	PPM	
0705	PH	6.7	PH	
0705	PH@T	7.14	PH	
0705	SIO2	37	PPB	
0705	TOC	0.15	PPM	
0705	VCT	25	PSIG	

0819	DEI	4.86E-3	UCI/CC	
0819	FRI	<1.0E-5	UCI/CC	
0819	GAS ACT	2.25E-1	UCI/CC	
0819	MODE	1		
0819	NDIX	1		

RWST

0808	CAT	0.180	US/CM	
0808	CL	< 2	PPB	
0808	COND	0.121	US/CM	
0808	DO	27.5	PPB	
0808	F	< 2	PPB	
0808	PH	6.0	PH	
0808	SIO2	< 5	PPB	
0808	TDS	78	PPB	
0808	TOC	0.10	PPM	
0808	TS	< 88	PPB	
0808	TSS	< 10	PPB	

RWST

0310	BORON	2468	PPM	
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Remarks: _____

Reviewed By: _____

PLANT CHEMISTRY SUMMARY SHEET

LABORATORY: SHOP LAB

Date: Aug. 14,

1995

Time	Analysis	Results	Out of Spec	Remarks
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CENTRAL CHILLER

0750	CULTSD	< 10	COLONIES	
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CIRCULATING WATER DISCHARGE

1145	CLRATE	80	GPM	
1145	FAC	< 0.01	PPM	
1145	PH	8.4	PH	
1145	SULFATE	80	PPM	
1145	TRC	0.05	PPM	
1145	TRCVD	1200	TIME	

ESW PUMP BAY A

1530	TRCVD	1530	TIME	
Remarks: NO CHEM ADDS				

ESW PUMP BAY B

1530	TRCVD	1530	TIME	
Remarks: NO CHEM ADDS				

LIME SLUDGE NPDES

OILY WASTE NPDES OUTFALL

1135	COD	< 10	PPM	
1135	PH	7.7	PH	
1135	TRCVD	1200	TIME	

PLANT HEATING

0750	CULTSD	< 10	COLONIES	
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SERVICE WATER CHLORINATION

0930	CLRATE	15	GPM	
0930	FAC	< 0.01	PPM	
0930	GRS ACT	0	UCI/CC	
0930	PH	8.4	PH	
0930	TRC	0.19	PPM	
0930	TRCVD	0933	TIME	

Remarks: _____

Reviewed By: _____

PLANT CHEMISTRY SUMMARY SHEET

LABORATORY: TURBINE LAB

Date: Aug. 14,

1995

Time	Analysis	Results	Out of Spec Remarks
AK BED IN SERVICE			
0830	ACETATE	1.1 PPB	
0830	BED #	3	
0830	CAT	0.075 US/CM	
0830	CL	< 0.5 PPB	
0830	COND	0.060 US/CM	
0830	F	< 0.20 PPB	
0830	FORMATE	< 0.5 PPB	
0830	NA	0.08 PPB	
0830	SO4	< 0.5 PPB	
0831	ACETATE	1.0 PPB	
0831	BED #	4	
0831	CAT	0.067 US/CM	
0831	CL	< 0.5 PPB	
0831	COND	0.058 US/CM	
0831	F	< 0.20 PPB	
0831	FORMATE	< 0.5 PPB	
0831	NA	0.06 PPB	
0831	SO4	< 0.5 PPB	
CONDENSATE STORAGE TANK			
1030	CAT	0.873 US/CM	
1030	CL	< 0.5 PPB	
1030	N2H4	0.009 PPM	
1030	PH	6.0 PH	
1030	SIO2	< 5 PPB	
1030	SO4	0.6 PPB	
1030	TSS	< 10 PPB	
DEGASIFIER RM			
1035	DO	11.8 PPB	
1035	VAC	26.8 IN	
DEMIN WATER STORAGE TANK			
1005	ACETATE	0.6 PPB	
1005	CL	< 0.5 PPB	
1005	F	< .20 PPB	
1005	FORMATE	< 0.5 PPB	
1005	NA	0.18 PPB	
1005	PH	6.0 PH	
1005	SIO2	< 5 PPB	
1005	SO4	< 0.5 PPB	
1005	TSS	< 10 PPB	
REBOILER			
1430	DO	< 5 PPB	
1430	N2H4	80 PPM	
1430	PH	10.0 PH	

Remarks: _____

Reviewed By: _____

PLANT CHEMISTRY SUMMARY SHEET

LABORATORY: TURBINE LAB

Date: Aug. 14,

1995

Time	Analysis	Results	Out of Spec	Remarks
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RM CONDENSATE PUMP DISCHARGE

0805	CAT	0.109 US/CM		
0805	CL	< 0.5 PPB		
0805	COND	4.59 US/CM		
0805	DO	3.8 PPB		
0805	ETA	< 0.9 PPB		
0805	NA	0.08 PPB		
0805	PH	9.30 PH		
0805	SIO2	< 5 PPB		
0805	SO4	< 0.5 PPB		
0805	TSS	< 10 PPB		

RM S/G FEEDWATER

0825	CAT	0.101 US/CM		
0825	COND	5.37 US/CM		
0825	DO	< 0.1 PPB		
0825	ETA	2.0 PPB		
0825	N2H4	0.100 PPM		
0825	NA	0.05 PPB		
0825	PH	9.38 PH		

Remarks: EVALUATING ETA

S/G A

0835	ACETATE	3.4 PPB		
0835	BLDN	12 K LBS/HR		
0835	CAT	0.206 US/CM		
0835	CL	1.5 PPB		
0835	ETA	4.4 PPB		
0835	F	0.76 PPB		
0835	FORMATE	3.4 PPB		
0835	NA	0.98 PPB		
0835	PH	9.58 PH		
0835	SIO2	17 PPB		
0835	SO4	3.3 PPB		

Remarks: EVALUATING ETA

S/G B

0845	ACETATE	3.1 PPB		
0845	BLDN	12 K LBS/HR		
0845	CAT	0.198 US/CM		
0845	CL	1.2 PPB		
0845	F	0.73 PPB		
0845	FORMATE	3.2 PPB		
0845	NA	0.90 PPB		
0845	PH	9.58 PH		
0845	SIO2	15 PPB		
0845	SO4	3.0 PPB		

Remarks: EVALUATING ETA

Remarks: _____

Reviewed By: _____

PLANT CHEMISTRY SUMMARY SHEET

LABORATORY: TURBINE LAB

Date: Aug. 14,

1995

Time	Analysis	Results	Out of Spec	Remarks
------	----------	---------	-------------	---------

S/G C

0845	BLDN	25	K LBS/HR	
0845	CAT	0.180	US/CM	
0845	NA	0.49	PPB	
0845	PH	9.57	PH	

S/G D

0845	BLDN	12	K LBS/HR	
0845	CAT	0.213	US/CM	
0845	NA	0.85	PPB	
0845	PH	9.58	PH	

STEAM GENERATOR AVERAGES

0750	GRS ACT	0	UCI/CC	
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Remarks: _____

Reviewed By: _____

LIMITS EXCEPTION REPORT

REPORT FOR FRIDAY Aug. 14, 1995

GROUP I.D. : PRI
SAMPLE POINT I.D. : RCS

DATE/TIME	ANALYSIS	VALUE	TYPE	UPPER	LOWER
14-Aug-95 08:17	H2	53.12 CC/KG	SUPV	40.0	25.0
14-Aug-95 08:17	H2	53.12 CC/KG	CHEM	40.0	25.0

GROUP I.D. : TUR
SAMPLE POINT I.D. : DEGAS

DATE/TIME	ANALYSIS	VALUE	TYPE	UPPER	LOWER
14-Aug-95 08:20	DO	48.1 PPB	SUPV	40.0	25.0
14-Aug-95 08:20	DO	48.1 PPB	SUPV	40.0	25.0

GROUP I.D. : PRI
SAMPLE POINT I.D. : RCS

DATE/TIME	ANALYSIS	VALUE	TYPE	UPPER	LOWER
14-Aug-95 08:35	FRI	1.615E-03 UCI/CC	FRI	*****	0.0
14-Aug-95 08:35	FRI	1.615E-03 UCI/CC	FRI-2	0.007	0.0
14-Aug-95 08:35	FRI	1.615E-03 UCI/CC	FRI-3	0.034	0.0
14-Aug-95 08:35	FRI	1.615E-03 UCI/CC	FRI-4	0.069	0.0

GROUP I.D. : TUR
SAMPLE POINT I.D. : SGA

DATE/TIME	ANALYSIS	VALUE	TYPE	UPPER	LOWER
14-Aug-95 09:30	SO4	5.8 PPB	SUPV	5.0	0.0
14-Aug-95 09:30	SO4	5.8 PPB	ACT-1	20.0	0.0
14-Aug-95 09:30	SO4	5.8 PPB	CHEM	20.0	0.0
14-Aug-95 09:30	SO4	5.8 PPB	ACT-2	100.0	0.0

GROUP I.D. : TUR
SAMPLE POINT I.D. : SGB

DATE/TIME	ANALYSIS	VALUE	TYPE	UPPER	LOWER
14-Aug-95 09:40	SO4	5.4 PPB	SUPV	5.0	0.0
14-Aug-95 09:40	SO4	5.4 PPB	ACT-1	20.0	0.0
14-Aug-95 09:40	SO4	5.4 PPB	CHEM	20.0	0.0
14-Aug-95 09:40	SO4	5.4 PPB	ACT-2	100.0	0.0

GROUP I.D. : PRI
SAMPLE POINT I.D. : BTRS-CHILLER

DATE/TIME	ANALYSIS	VALUE	TYPE	UPPER	LOWER
14-Aug-95 13:35	TOLY	3.4 PPM	SUPV	9.0	6.0
14-Aug-95 13:35	TOLY	3.4 PPM	CHEM	10.0	5.0

END OF THE LIMITS EXCEPTION REPORT

Remarks: _____

Reviewed By: _____

SCENARIO

NARRATIVE SUMMARY

This scenario is based on a containment breach through the equipment hatch following increased containment pressure. This results in an unfiltered, unmonitored release from failed fuel.

Initial conditions establish the plant operating normally at 100% full power. Demand for electricity in the area is very high.

The scenario begins with a 45 gallon per minute leak on the D loop inside of containment requiring the crew to start the "A" Centrifugal Charging Pump. The crew should enter OFN BB-007 for instructions to locate the leak. After leak mitigation proves unsuccessful, a Notification Of Unusual Event should be declared due to leakage being greater than Technical Specifications but less than capacity of one Centrifugal Charging Pump.

The "A" Centrifugal Charging Pump motor shorts out after approximately 40 minutes and a small fire develops, tripping the Centrifugal Charging Pump, requiring the crew to shift to "B" Centrifugal Charging Pump for charging. The AUX Building Operator extinguishes the fire. An Alert should be declared due to a fire in a Protected Area Boundary and a fire that damages a piece of safety related equipment so that it is non-functional.

Approximately half an hour later, a high vibration alarm comes in on the "D" Reactor Coolant Pump shaft. The vibration slowly increases. Eventually, the reactor receives an automatic trip signal from a loss of flow on the "D" reactor coolant loop when the "D" shaft locks up. The reactor will not trip in auto or manual forcing the crew to implement EMG FR-S1. A Site Area Emergency should be declared when the reactor fails to trip in auto or manual. Thirty minutes later, there are indications of fuel degradation due to the Anticipated Transient Without Trip.

Another 15 minutes later the leak on Reactor Coolant System "D" loop increases to 7500 gpm requiring safety injection. Containment pressure increases over the next hour and 45 minutes.

Around three hours into the exercise, containment pressure increases until steam is reported to be leaking out of the equipment hatch. The pressure increase is followed by a rapid decrease due to failure of the equipment hatch. A General Emergency should be declared based on unexplained containment pressure decrease. There is an unfiltered and unmonitored release of radioactive material from containment.

The release will last four hours and is terminated when the equipment hatch is sealed.

The drill is terminated at about 1600.

TIMELINE

SUMMARY

<u>TIME</u>		<u>PLANT EVENT SUMMARY</u>
0630 (H+00:30)		Initial conditions are provided to the Shift Supervisor.
0700 (H+00:00)		Drill activities begin.
0705 (H+00:05)	NOUE	RCS leaking 45 gpm on "D" loop.
0745 (H+00:45)	ALERT	CCP "A" motor shorts out causing fire and trips CCP. Fire extinguished by Aux Building Operator.
0815 (H+01:15)		High vibration alarms on "D" RCP shaft. Vibration slowly increases.
0900 (H+02:00)	SITE AREA EMERGENCY	"D" RCP shaft locks up. Loss of flow causes trip signal. Reactor fails to trip in auto or manual.
0930 (H+02:30)		Fuel failure begins due to Anticipated Transient Without a Trip.
0945 (H+02:45)		RCS "D" loop leak rate increases to 7500 gpm. Containment pressure increasing.
1015 (H+03:15)	GENERAL EMERGENCY	Increased containment pressure causes equipment hatch failure. Offsite release begins.
1415 (H+07:15)		The release is terminated.
1430 (H+07:30)		Exercise activities should reflect Re-entry / Recovery issues.
1600 (H+08:00)		Exercise Terminates

NOTE:

1. Times are approximations based on previous simulator runs. Operational events will occur as stated in the timeline; however, times vary may slightly in order to provide players "freedom to play".
2. The General Emergency should be declared based on unexplained containment pressure decrease.

SECTION 4.0

CONTROLLER MESSAGES

<u>Subsections</u>	<u>Page</u>
MESSAGES	4.1
MINI SCENARIOS	4.23

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: Shift Supervisor

FROM: CR Lead Controller

TIME: 0630

MESSAGE: Brief the Shift Supervisor on the initial conditions on pages 3.2 thru 3.9 of this scenario.

THIS IS A DRILL

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: Shift Supervisor

FROM: CR Lead Controller

TIME: 0705

MESSAGE: There are indications of a 45 GPM RCS leak.

NOTE: This message is only given in case of simulator failure

THIS IS A DRILL

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: Shift Supervisor

FROM: CR Lead Controller

TIME: 0705+

MESSAGE: A Notification of Unusual Event should have been declared per the WCCS Emergency Plan due to the magnitude of the RCS leak.

CAUTION: To avoid interfering with the normal Control Room shift turnover activities, do not allow the NUE to be announced on Gai-tronics until 0720.

NOTE: DO NOT pass this message without the consent of the Drill Lead Controller.

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: Shift Supervisor

FROM: CR Lead Controller

TIME: 0745

MESSAGE: 'A' CCP has stopped running.

NOTE: This message is only given in case of simulator failure.

THIS IS A DRILL

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: Shift Supervisor

FROM: Simulator Booth Operator

TIME: 0745+

MESSAGE: The aux building watch has reported that there is a fire in 'A' CCP room.

NOTE: This message is to be given after the Shift Supervisor has dispatched an Operator to inspect CCP 'A'.

THIS IS A DRILL

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: Shift Supervisor

FROM: CR Lead Controller

TIME: 0745+

MESSAGE: The aux building watch has reported that the is fire in 'A' CCP room is out.

NOTE: This message is to be given after the Shift Supervisor has dispatched an Operator to inspect CCP 'A'.

THIS IS A DRILL

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: Shift Supervisor

FROM: CR Lead Controller

TIME: 0800+

MESSAGE: Due to the fire in the a PAB, an ALERT should be declared.

NOTE: DO NOT pass this message without the consent
of the Drill Lead Controller.

THIS IS A DRILL

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: Shift Supervisor

FROM: CR Lead Controller

TIME: 0815

MESSAGE: There is a high vibration alarm from the 'D' reactor coolant pump shaft.

NOTE: This message is only given in case of simulator failure.

THIS IS A DRILL

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: Shift Supervisor

FROM: CR Lead Controller

TIME: 0900

MESSAGE: "D" Reactor Coolant pump has stopped due to a locked rotor.

NOTE: This message is only given in case of simulator failure.

THIS IS A DRILL

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: Shift Supervisor

FROM: CR Lead Controller

TIME: 0900+

MESSAGE: The reactor has failed to trip automatically or manually.

NOTE: This message is only given in case of simulator failure.

THIS IS A DRILL

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: Shift Supervisor

FROM: CR Lead Controller

TIME: 0900+

MESSAGE: Due to the Anticipated Transient Without Trip (ATWT), a SITE AREA EMERGENCY should be declared.

NOTE: DO NOT pass this message without the consent of the Drill Lead Controller.

THIS IS A DRILL

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: DED / DEM

FROM: TSC / EOF Lead Controller

TIME: 0900+

MESSAGE: John Redmond Reservoir should have been evacuated due to classification of an SAE.

NOTE: DO NOT pass this message without the consent of the Drill Lead Controller.

THIS IS A DRILL

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: Shift Supervisor

FROM: CR Lead Controller

TIME: 0930

MESSAGE: CVCS Letdown monitor, SJRE 01, has increased by a factor of 1000 to a level of about $1.7E+3$ uCi/cc.

NOTE: This message is only given in case of simulator failure

THIS IS A DRILL

MESSAGE No: 14(C)

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: Shift Supervisor

FROM: CR Lead Controller

TIME: 0930+

MESSAGE: There are indications that the ATWT resulted in some fuel damage.

NOTE: This message is only given in case of simulator failure

THIS IS A DRILL

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: Shift Supervisor

FROM: CR Lead Controller

TIME: 0945

MESSAGE: Pressurizer level and pressure are rapidly decreasing.

NOTE: This message is only given in case of simulator failure

THIS IS A DRILL

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: Shift Supervisor

FROM: CR Lead Controller

TIME: 0945+

MESSAGE: Pressurizer pressure has decreased below 1400 psi.

NOTE: This message is only given in case of simulator failure

THIS IS A DRILL

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: Shift Supervisor

FROM: CR Lead Controller

TIME: 1000+

MESSAGE: A GENERAL EMERGENCY should have been declared due to the CHARMS readings in excess of 2800 R/Hr.

NOTE: DO NOT pass this message without the consent of the Drill Lead Controller.

THIS IS A DRILL

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: Shift Supervisor

FROM: CR Lead Controller

TIME: 1015

MESSAGE: There has been a rapid decrease in containment pressure.

NOTE: This message is only given in case of simulator failure

THIS IS A DRILL

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: Shift Supervisor

FROM: Simulator Operator (As a Security Guard)

TIME: 1015+

MESSAGE: Security has reported seeing steam escaping from outside the equipment hatch.

**NOTE: This message is to be given shortly after 1015,
to ensure that the control room is aware that a release
is in progress.**

THIS IS A DRILL

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: Shift Supervisor

FROM: CR Lead Controller

TIME: 1015+

MESSAGE: An unmonitored, unfiltered release from containment has begun.

**NOTE: DO NOT pass this message without the consent
of the Drill Lead Controller.**

THIS IS A DRILL

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: Shift Supervisor

FROM: CR Lead Controller

TIME: 1415

MESSAGE: The release has been terminated

NOTE: DO NOT pass this message without the consent
of the Drill Lead Controller.

THIS IS A DRILL

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

TO: DEM

FROM: EOF Lead Controller

TIME: 1600

MESSAGE: The drill has been terminated.

NOTE: DO NOT pass this message without the consent
of the Drill Lead Controller.

THIS IS A DRILL

Mini Scenario - 1
CCP A Failure Due to A Worn Bearing

Coolant Charging Pump (CCP) "A" Failure.

Time - H+00:45.

The motor of CCP A will have a high vibration. The vibration is caused by an excessively worn bearing which was in turn caused by dirty lube oil. The high vibration will cause the rotor to contact the stator and cause a short and an electrical fire. The motor feeder breaker (NB0104) will trip and relay 150-151/M will be flagged indicating the relay tripped on overcurrent. Troubleshooting will indicate a direct short between the rotor and stator. A motor rebuild will be necessary and therefore this pump will be disabled throughout the balance of this drill. Troubleshooting should take approximately 2 hours and may include Electrical Maintenance and Relay and Meter technicians.

Electrical Maintenance personnel should be dispatched to CCP 'A' to investigate.

NOTE: This equipment should not be returned to service until the Simulator Control Booth Operator has been contacted at extension 5112 or via gaitronics.

Mini Scenario - 2
Reactor Will Not Automatically or Manually Trip

Reactor will not trip

Time - H+01:45

The reactor will not trip in Auto or Manual. To prevent a Manual trip requires SB HS-0001 and SB HS-0042 to both fail to close when actuated. For the purposes of this scenario the shaft on SB HS-0042 snaps internal to the switch and the handle rotates without turning the switch internals. SB HS-0001 contacts 7-8, and 33-34 are dirty and do not close. This prevents 125 vdc from closing the Reactor Trip Breakers shunt trip coils. To prevent an Automatic trip, there is a generic problem in both SSPS trains. SB029B and SB032B UV output boards A515 transistor Q3 is shorted and maintains 48 vdc to the Trip Breakers.

Estimated time to repair these items are:

SB HS-0001	6 hours
SB HS-0042	10 hours
SB029B, SB032B	3 hours

Maintenance Electrical personnel should be dispatched to investigate these problems.

NOTE: This equipment should not be returned to service until the Simulator Control Booth Operator has been contacted at extension 5112 or via gaitronics.

MINI-SCENARIO - 3

A 10 GPM ESW flange leak occurs.

Time - H+02:30

When the Safety Injection occurs, a 10 GPM flange leak develops at the Essential Service Water Supply to the 'A' RHR Pump Room cooling coil.

The Safety injection will automatically close LFHV 105/106, which will prevent discharge from the 'A' RHR Pump sump PLF01 A/B. Eventually the high level alarm LFLAH-8 will come in. The Operators should respond to these alarm and cause Mechanical Maintenance to investigate.

The inspection shall reveal the flange leak at the cooler. Tightening the flange bolts will reduce the leak to approximately one gallon per minute.

The total time for this repair is about one hour.

NOTE: This equipment should not be returned to service until the Simulator Control Booth Operator has been contacted at extension 5112 or via gaitronics.

SECTION 5.0

PLANT DATA

<u>Subsections</u>	<u>Page</u>
PLANT PARAMETERS	5.1
PASS SAMPLE DATA	5.2
CORE DAMAGE ASSESSMENT	5.3

PASS SAMPLE DATA

PASS SAMPLE DATA

The Post Accident Sample System (PASS) sample should be obtained using the data on page 7.2 for the appropriate time. If the sample is to be simulated, a time delay of one hour should be allowed from the time a post-accident sampling system sample is collected to when the sample is analyzed and the results are obtained.

CORE DAMAGE ASSESSMENT

CORE INVENTORY

<u>NUCLIDE</u>	<u>CORRECTED FUEL PELLET INVENTORY</u>
KR-83M	1.48E+07
KR-85M	4.62E+07
KR-85	1.46E+06
KR-87	8.32E+07
KR-88	1.17E+08
XE-133M	4.93E+06
XE-133	2.00E+08
XE-135M	5.55E+07
XE-135	1.91E+08
XE-138	1.70E+08
I-131	8.94E+07
I-132	1.36E+08
I-133	2.00E+08
I-134	2.34E+08
I-135	1.82E+08
RB-88	1.07E+08
CE-144	6.80E+07
TE-132	2.30E+08
CS-134	3.70E+07
CS-137	1.80E+07
CS-138	7.01E+07
LA-140	2.93E+08
LA-142	3.00E+07
BA-140	2.70E+08

ASSUMPTIONS:

1. Clad gap activities can be assumed to be 10.0% of fuel pellet activity for all isotopes except KR-85 which is 30% of core activity.
2. Radioactive decay, time after shutdown, is a factor for accident assessment.
3. Reactor coolant system volume is static at 10600 cu. ft. (3.00E+08 cc).

RESULTS:

Core damage should be assessed at approximately less than 1% with no fuel over temperature conditions. There is no zircoloy-water reaction, therefore there is no hydrogen production.

SECTION 6.0

METEOROLOGICAL DATA

SECTION 7.0

ON-SITE RADIOLOGICAL DATA

<u>Subsections</u>	<u>Page</u>
PROCESS RADIOCHEMISTRY	
RCS	7.1
CONTAINMENT ATMOSPHERE	7.3
PROCESS MONITORS	
AIRBORNE	7.5
LIQUID	7.6
AREA RADIATION MONITORS	7.7
IN-PLANT SURVEYS	7.8

PROCESS RADIOCHEMISTRY
RCS (uCi/cc)

85_RCS.XLS
6/7/95 3:48 PM

Time Nuclide	0:00	7:15	9:30	9:45	10:00	10:15	10:30	10:45	11:00	11:15	11:30	11:45	12:00	12:15	12:30	12:45	13:00
Kr-85m	6.14E-03	8.32E-03	1.49E-04	3.16E-01	3.04E-01	2.92E-01	2.81E-01	2.71E-01	2.60E-01	2.50E-01	2.41E-01	2.32E-01	2.23E-01	2.15E-01	2.06E-01	1.99E-01	1.91E-01
Kr-85	5.47E-03	5.52E-03	8.74E-05	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00
Kr-87	1.17E-02	1.19E-02	1.74E-04	5.66E-01	4.94E-01	4.31E-01	3.76E-01	3.28E-01	2.87E-01	2.50E-01	2.18E-01	1.91E-01	1.66E-01	1.45E-01	1.27E-01	1.11E-01	9.65E-02
Kr-88	1.34E-02	1.38E-02	1.71E-03	5.56E+00	5.23E+00	4.92E+00	4.63E+00	4.36E+00	4.10E+00	3.86E+00	3.63E+00	3.41E+00	3.21E+00	3.02E+00	2.84E+00	2.67E+00	2.52E+00
Xe-133m	2.53E-03	2.66E-03	8.91E-04	2.89E+00	2.88E+00	2.87E+00	2.86E+00	2.85E+00	2.85E+00	2.84E+00	2.83E+00	2.82E+00	2.81E+00	2.80E+00	2.79E+00	2.78E+00	2.77E+00
Xe-133	9.32E-02	9.79E-02	1.24E-01	4.03E+02	4.00E+02	3.97E+02	3.93E+02	3.90E+02	3.87E+02	3.83E+02	3.80E+02	3.77E+02	3.74E+02	3.70E+02	3.67E+02	3.64E+02	3.61E+02
Xe-135m	1.49E-02	1.46E-02	3.69E-05	1.20E-01	6.14E-02	3.15E-02	1.62E-02	8.32E-03	4.27E-03	2.19E-03	1.13E-03	5.79E-04	2.97E-04	1.53E-04	7.84E-05	4.03E-05	2.07E-05
Xe-135	4.34E-02	4.47E-02	8.49E-02	3.06E+02	3.02E+02	2.96E+02	2.91E+02	2.85E+02	2.80E+02	2.75E+02	2.69E+02	2.64E+02	2.59E+02	2.54E+02	2.50E+02	2.45E+02	2.40E+02
Total Noble Gas	1.91E-01	1.97E-01	2.22E-01	7.23E+02	7.13E+02	7.03E+02	6.94E+02	6.85E+02	6.76E+02	6.67E+02	6.58E+02	6.50E+02	6.41E+02	6.33E+02	6.26E+02	6.17E+02	6.09E+02
I-131	2.10E-03	2.14E-03	6.09E-02	1.58E+02	1.58E+02	1.58E+02	1.58E+02	1.58E+02	1.57E+02	1.57E+02	1.57E+02	1.57E+02	1.57E+02	1.57E+02	1.57E+02	1.56E+02	1.56E+02
I-132	4.34E-02	4.47E-02	8.94E-02	2.32E+02	2.16E+02	2.01E+02	1.86E+02	1.73E+02	1.61E+02	1.50E+02	1.39E+02	1.30E+02	1.20E+02	1.12E+02	1.04E+02	9.69E+01	9.01E+01
I-133	1.97E-02	2.07E-02	1.27E-01	3.29E+02	3.26E+02	3.24E+02	3.21E+02	3.18E+02	3.15E+02	3.13E+02	3.10E+02	3.07E+02	3.05E+02	3.02E+02	3.00E+02	2.97E+02	2.95E+02
I-134	7.58E-02	7.96E-02	1.37E-01	3.55E+02	2.91E+02	2.39E+02	1.96E+02	1.61E+02	1.32E+02	1.08E+02	8.90E+01	7.30E+01	5.99E+01	4.92E+01	4.04E+01	3.31E+01	2.72E+01
I-135	3.93E-02	3.85E-02	1.17E-01	3.05E+02	2.97E+02	2.89E+02	2.82E+02	2.75E+02	2.67E+02	2.61E+02	2.54E+02	2.47E+02	2.41E+02	2.35E+02	2.29E+02	2.23E+02	2.17E+02
Total Iodine	1.80E-01	1.86E-01	6.31E-01	1.38E+03	1.29E+03	1.21E+03	1.14E+03	1.08E+03	1.03E+03	9.89E+02	9.49E+02	9.14E+02	8.83E+02	8.55E+02	8.29E+02	8.06E+02	7.86E+02
DEI	1.36E-02	1.39E-02	1.11E-01	2.87E+02	2.84E+02	2.81E+02	2.78E+02	2.76E+02	2.73E+02	2.71E+02	2.69E+02	2.67E+02	2.65E+02	2.63E+02	2.61E+02	2.59E+02	2.58E+02
Rb-88	3.55E-02	3.66E-02	8.85E-02	2.16E+02	2.03E+02	1.91E+02	1.80E+02	1.69E+02	1.59E+02	1.50E+02	1.41E+02	1.32E+02	1.25E+02	1.17E+02	1.10E+02	1.04E+02	9.76E+01
Cs-134	7.93E-05	8.09E-05	2.30E-02	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01
Cs-136	7.94E-05	8.08E-05	1.12E-02	3.63E+01	3.63E+01	3.63E+01	3.62E+01	3.62E+01	3.62E+01	3.62E+01	3.62E+01	3.61E+01	3.61E+01	3.61E+01	3.61E+01	3.61E+01	3.60E+01
Cs-137	9.09E-05	9.54E-05	1.12E-02	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01
Cs-138	7.46E-02	7.83E-02	4.38E-02	1.42E+02	1.03E+02	7.44E+01	5.39E+01	3.90E+01	2.83E+01	2.05E+01	1.48E+01	1.07E+01	7.77E+00	5.63E+00	4.07E+00	2.95E+00	2.14E+00
La-140	4.43E-05	4.34E-05	1.82E-01	5.91E+02	5.88E+02	5.86E+02	5.83E+02	5.81E+02	5.78E+02	5.76E+02	5.73E+02	5.71E+02	5.68E+02	5.66E+02	5.64E+02	5.61E+02	5.59E+02
Be-140	3.63E-04	3.74E-04	1.88E-01	5.45E+02	5.44E+02	5.44E+02	5.44E+02	5.43E+02	5.43E+02	5.43E+02	5.42E+02	5.42E+02	5.42E+02	5.41E+02	5.41E+02	5.41E+02	5.41E+02
Total Particulate	1.11E-01	1.16E-01	6.08E-01	1.64E+03	1.63E+03	1.64E+03	1.61E+03	1.48E+03	1.46E+03	1.44E+03	1.42E+03	1.40E+03	1.39E+03	1.38E+03	1.37E+03	1.36E+03	1.36E+03
Total Activity	4.82E-01	4.88E-01	1.28E+00	3.74E+03	3.68E+03	3.46E+03	3.34E+03	3.26E+03	3.17E+03	3.09E+03	3.03E+03	2.97E+03	2.91E+03	2.87E+03	2.82E+03	2.78E+03	2.74E+03

Note 1: Concentrations are determined using RMS as a reference.

Note 2: Results are based on collection, not analysis, time.

Note 3: There should be 1 Hr between PASS collection and providing results.

PROCESS RADIOCHEMISTRY
RCS (uCl/cc)

95_RCS.XLS
6/7/95 3:49 PM

Time	13:15	13:30	13:45	14:00	14:15	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15	16:30	16:45
Nuclide															
Kr-85m	1.84E-01	1.77E-01	1.70E-01	1.64E-01	1.57E-01	1.52E-01	1.46E-01	1.40E-01	1.35E-01	1.30E-01	1.25E-01	1.20E-01	1.16E-01	1.11E-01	1.07E-01
Kr-85	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00	1.99E+00
Kr-87	8.42E-02	7.35E-02	6.41E-02	5.60E-02	4.89E-02	4.27E-02	3.72E-02	3.25E-02	2.84E-02	2.47E-02	2.16E-02	1.89E-02	1.65E-02	1.44E-02	1.25E-02
Kr-88	2.37E+00	2.23E+00	2.09E+00	1.97E+00	1.85E+00	1.74E+00	1.64E+00	1.54E+00	1.45E+00	1.37E+00	1.29E+00	1.21E+00	1.14E+00	1.07E+00	1.01E+00
Xe-133m	2.76E+00	2.76E+00	2.75E+00	2.74E+00	2.73E+00	2.72E+00	2.71E+00	2.70E+00	2.70E+00	2.69E+00	2.68E+00	2.67E+00	2.66E+00	2.65E+00	2.64E+00
Xe-133	3.59E+02	3.55E+02	3.52E+02	3.49E+02	3.46E+02	3.43E+02	3.40E+02	3.37E+02	3.34E+02	3.31E+02	3.29E+02	3.26E+02	3.23E+02	3.20E+02	3.18E+02
Xe-135m	1.06E-05	5.46E-06	2.80E-06	1.44E-06	7.39E-07	3.80E-07	1.95E-07	1.00E-07	5.14E-08	2.64E-08	1.36E-08	6.98E-09	3.58E-09	1.84E-09	9.43E-10
Xe-135	2.36E+02	2.31E+02	2.27E+02	2.23E+02	2.18E+02	2.14E+02	2.10E+02	2.06E+02	2.02E+02	1.99E+02	1.95E+02	1.91E+02	1.87E+02	1.84E+02	1.80E+02
Total Noble Gas	6.01E+02	6.93E+02	6.86E+02	6.78E+02	6.71E+02	6.64E+02	6.67E+02	6.60E+02	6.43E+02	6.36E+02	6.30E+02	6.22E+02	6.16E+02	6.10E+02	6.04E+02
I-131	1.56E+02	1.56E+02	1.56E+02	1.56E+02	1.56E+02	1.55E+02	1.55E+02	1.55E+02	1.55E+02	1.55E+02	1.55E+02	1.55E+02	1.54E+02	1.54E+02	1.54E+02
I-132	8.37E+01	7.79E+01	7.24E+01	6.73E+01	6.26E+01	5.82E+01	5.41E+01	5.03E+01	4.68E+01	4.35E+01	4.04E+01	3.76E+01	3.50E+01	3.25E+01	3.02E+01
I-133	2.92E+02	2.90E+02	2.87E+02	2.85E+02	2.82E+02	2.80E+02	2.77E+02	2.75E+02	2.73E+02	2.70E+02	2.68E+02	2.66E+02	2.64E+02	2.61E+02	2.59E+02
I-134	2.23E+01	1.83E+01	1.50E+01	1.23E+01	1.01E+01	8.31E+00	6.82E+00	5.60E+00	4.59E+00	3.77E+00	3.09E+00	2.54E+00	2.08E+00	1.71E+00	1.40E+00
I-135	2.11E+02	2.06E+02	2.00E+02	1.95E+02	1.90E+02	1.85E+02	1.81E+02	1.76E+02	1.71E+02	1.67E+02	1.63E+02	1.58E+02	1.54E+02	1.50E+02	1.46E+02
Total Iodine	7.68E+02	7.48E+02	7.31E+02	7.18E+02	7.01E+02	6.87E+02	6.74E+02	6.62E+02	6.60E+02	6.39E+02	6.29E+02	6.19E+02	6.09E+02	6.00E+02	6.81E+02
DEI	2.66E+02	2.66E+02	2.63E+02	2.62E+02	2.60E+02	2.49E+02	2.48E+02	2.46E+02	2.46E+02	2.44E+02	2.42E+02	2.41E+02	2.40E+02	2.39E+02	2.38E+02
Rb-88	9.19E+01	8.64E+01	8.13E+01	7.65E+01	7.20E+01	6.77E+01	6.37E+01	5.99E+01	5.64E+01	5.31E+01	4.99E+01	4.70E+01	4.42E+01	4.16E+01	3.91E+01
Cs-134	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01	7.46E+01
Cs-136	3.60E+01	3.60E+01	3.60E+01	3.60E+01	3.59E+01	3.59E+01	3.59E+01	3.59E+01	3.59E+01	3.58E+01	3.58E+01	3.58E+01	3.58E+01	3.58E+01	3.57E+01
Cs-137	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01	3.63E+01
Ce-138	1.55E+00	1.12E+00	8.11E-01	5.87E-01	4.25E-01	3.08E-01	2.23E-01	1.61E-01	1.17E-01	8.46E-02	6.13E-02	4.44E-02	3.21E-02	2.33E-02	1.68E-02
La-140	5.56E+02	5.54E+02	5.52E+02	5.49E+02	5.47E+02	5.45E+02	5.42E+02	5.40E+02	5.38E+02	5.35E+02	5.33E+02	5.31E+02	5.28E+02	5.26E+02	5.24E+02
Ba-140	5.40E+02	5.40E+02	5.40E+02	5.39E+02	5.39E+02	5.39E+02	5.38E+02	5.38E+02	5.38E+02	5.38E+02	5.37E+02	5.37E+02	5.37E+02	5.36E+02	5.36E+02
Total Particulate	1.34E+03	1.33E+03	1.32E+03	1.31E+03	1.31E+03	1.30E+03	1.29E+03	1.28E+03	1.28E+03	1.27E+03	1.27E+03	1.26E+03	1.26E+03	1.26E+03	1.26E+03
Total Activity	2.70E+03	2.67E+03	2.64E+03	2.61E+03	2.59E+03	2.55E+03	2.62E+03	2.60E+03	2.47E+03	2.46E+03	2.43E+03	2.40E+03	2.38E+03	2.36E+03	2.34E+03

Note 1: Concentrations are determined using RMS as a reference.

Note 2: Results are based on collection, not analysis, time.

Note 3: There should be 1 Hr between PASS collection and providing results.

PROCESS RADIOCHEMISTRY

Cont. Atmos. (uCi / ml)

95_CONT.XLS
8/9/95 10:37 AM

Time	6:00	7:15	7:30	7:45	8:00	8:15	8:30	8:45	9:00	9:15	9:30	9:45	10:00	10:15	10:30
Ar-41	3.23E-08	7.34E-08	5.20E-08	5.36E-08	5.52E-08	5.69E-08	5.87E-08	6.05E-08	6.24E-08	6.43E-08	6.43E-04	6.12E-04	4.82E-04	4.38E-04	3.99E-04
Kr-85m	<1.00E-09	<1.00E-09	4.38E-09	4.51E-09	4.65E-09	4.80E-09	4.95E-09	5.10E-09	5.26E-09	5.42E-09	5.42E-07	1.15E-03	2.17E-02	2.09E-02	2.01E-02
Kr-88	<1.00E-09	<1.00E-09	2.88E-09	2.95E-09	3.04E-09	3.13E-09	3.23E-09	3.33E-09	3.43E-09	3.54E-09	3.54E-07	7.23E-03	8.59E-02	8.59E-02	8.59E-02
Kr-87	<1.00E-09	<1.00E-09	5.12E-09	5.28E-09	5.44E-09	5.61E-09	5.79E-09	5.97E-09	6.15E-09	6.34E-09	6.34E-07	2.06E-03	1.36E-02	1.19E-02	1.04E-02
Kr-86	<1.00E-09	<1.00E-09	5.03E-08	5.19E-08	5.35E-08	5.52E-08	5.69E-08	5.86E-08	6.04E-08	6.23E-08	6.23E-08	2.02E-02	3.89E-02	3.66E-02	3.44E-02
Xe-133m	<1.00E-09	2.34E-08	2.62E-08	2.70E-08	2.78E-08	2.87E-08	2.96E-08	3.05E-08	3.14E-08	3.24E-08	3.24E-08	1.05E-02	1.99E-01	1.98E-01	1.98E-01
Xa-133	2.00E-08	4.12E-08	3.85E-08	3.77E-08	3.88E-08	4.00E-08	4.13E-08	4.25E-08	4.38E-08	4.52E-08	4.52E-04	1.47E+00	2.99E+00	2.96E+00	2.94E+00
Xe-135m	<1.00E-09	<1.00E-09	1.08E-09	1.12E-09	1.15E-09	1.19E-09	1.22E-09	1.26E-09	1.30E-09	1.34E-09	1.34E-07	4.35E-04	6.33E-03	3.25E-03	1.67E-03
Xe-136	1.00E-08	2.31E-08	2.79E-08	2.87E-08	2.96E-08	3.05E-08	3.15E-08	3.25E-08	3.35E-08	3.45E-08	3.45E-04	1.12E+00	9.95E-02	9.76E-02	9.58E-02
Total Noble Gas	6.23E-08	8.78E-08	1.17E-05	1.21E-05	1.26E-05	1.28E-05	1.32E-05	1.37E-05	1.41E-05	1.46E-05	1.46E-03	2.63E+00	3.48E+00	3.42E+00	3.39E+00
I-131	1.82E-12	3.45E-10	2.70E-05	2.79E-05	2.87E-05	2.96E-05	3.05E-05	3.15E-05	3.25E-05	3.35E-05	3.45E-05	6.38E-02	7.86E-02	7.85E-02	7.65E-02
I-132	<1.00E-14	1.43E-12	1.12E-07	1.16E-07	1.19E-07	1.23E-07	1.27E-07	1.31E-07	1.35E-07	1.39E-07	1.43E-07	6.68E-02	6.74E-02	6.27E-02	5.83E-02
I-133	1.03E-12	1.90E-10	1.49E-05	1.54E-05	1.58E-05	1.63E-05	1.68E-05	1.74E-05	1.79E-05	1.84E-05	1.90E-05	9.92E-02	1.15E-01	1.14E-01	1.13E-01
I-134	<1.00E-14	2.34E-12	2.70E-08	2.79E-08	2.87E-08	2.96E-08	3.05E-08	3.15E-08	3.25E-08	3.35E-08	3.45E-08	1.52E-02	6.08E-03	4.99E-03	4.09E-03
I-136	<1.00E-14	3.94E-11	3.09E-08	3.18E-08	3.28E-08	3.38E-08	3.49E-08	3.60E-08	3.71E-08	3.82E-08	3.94E-08	5.77E-02	7.50E-02	7.30E-02	7.11E-02
Total Iodine	2.88E-12	8.78E-10	4.78E-05	4.53E-05	4.69E-05	4.84E-05	4.99E-05	5.14E-05	5.29E-05	5.44E-05	5.59E-05	3.03E-01	3.40E-01	3.31E-01	3.23E-01
Rb-88	<1.00E-14	2.01E-09	1.81E-09	1.89E-09	1.95E-09	2.01E-09	2.07E-09	2.14E-09	2.20E-09	2.27E-09	2.34E-09	9.86E-04	1.08E-03	1.02E-03	9.60E-04
Ca-134	<1.00E-14	<1.00E-14	1.83E-11	1.89E-11	1.95E-11	2.01E-11	2.07E-11	2.14E-11	2.20E-11	2.27E-11	2.34E-11	7.35E-04	8.23E-04	6.73E-04	6.23E-04
Ca-136	<1.00E-14	<1.00E-14	1.89E-11	2.05E-11	2.12E-11	2.18E-11	2.25E-11	2.32E-11	2.39E-11	2.46E-11	2.54E-11	7.98E-04	8.93E-04	7.93E-04	8.92E-04
Ca-137	<1.00E-14	<1.00E-14	1.05E-11	1.08E-11	1.12E-11	1.15E-11	1.19E-11	1.22E-11	1.26E-11	1.30E-11	1.34E-11	4.47E-04	5.00E-04	5.00E-04	5.00E-04
Ca-138	<1.00E-14	1.23E-10	7.74E-12	7.97E-12	8.22E-12	8.48E-12	8.74E-12	9.01E-12	9.29E-12	9.57E-12	9.87E-12	2.55E-04	2.57E-04	1.86E-04	1.35E-04
Total Particulate	0.00E+00	2.13E-09	1.89E-09	1.98E-09	2.01E-09	2.07E-09	2.14E-09	2.20E-09	2.27E-09	2.34E-09	2.41E-09	3.22E-03	3.60E-03	3.42E-03	3.31E-03
Total Activity	8.23E-08	9.80E-06	6.96E-05	6.14E-05	6.33E-05	6.53E-05	6.73E-05	6.94E-05	7.15E-05	7.37E-05	1.81E-03	2.93E+00	3.80E+00	3.78E+00	3.71E+00
Time Since trip	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-01	5.00E-01	7.50E-01	1.00E+00	1.25E+00
Cont Pressure	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	10.00	12.00	9.00	7.00
Cont Vol M ³	7.00E+04	7.48E+04	7.48E+04	7.48E+04	7.48E+04	7.48E+04	7.48E+04	7.48E+04	7.48E+04	7.48E+04	7.95E+04	1.18E+05	1.27E+05	1.13E+05	1.03E+05
Curlee (NG)	4.2E-01	7.32E-01	6.77E-01	6.04E-01	9.32E-01	9.60E-01	9.90E-01	1.02E+00	1.05E+00	1.08E+00	1.15E+02	3.09E+05	4.39E+05	3.86E+05	3.50E+05
Ci/R/hr	90	90	90	90	90	90	90	90	90	90	90	120	140	160	175
Chars	0	0	0	0	0	0	0	0	0	0	1	2576	3138	2412	1999

Note 1: Concentrations are determined using RMS as a reference.

Note 2: Results are based on collection, not analysis, time.

Note 3: There should be 1 hr between PASS collection and providing results.

PROCESS RADIOCHEMISTRY

Cont. Atmos. (uCi / ml)

95_CONT.XLS
05/05 10:37 AM

Time	10:48	11:00	11:18	11:30	11:48	12:00	12:18	12:30	12:48	13:00	13:18	13:30	13:48	14:00
Ar-41	3.83E-04	3.30E-04	3.00E-04	2.73E-04	2.48E-04	2.26E-04	2.06E-04	1.87E-04	1.70E-04	1.55E-04	1.41E-04	1.28E-04	1.16E-04	1.05E-04
Kr-85m	1.93E-02	1.86E-02	1.79E-02	1.72E-02	1.66E-02	1.59E-02	1.53E-02	1.47E-02	1.42E-02	1.36E-02	1.31E-02	1.26E-02	1.21E-02	1.17E-02
Kr-85	8.59E-02	8.59E-02	8.59E-02	8.59E-02	8.59E-02	8.59E-02	8.59E-02	8.59E-02	8.59E-02	8.59E-02	8.59E-02	8.59E-02	8.59E-02	8.59E-02
Kr-87	9.04E-03	7.89E-03	8.89E-03	8.01E-03	8.25E-03	4.58E-03	4.00E-03	3.49E-03	3.04E-03	2.66E-03	2.32E-03	2.02E-03	1.77E-03	1.54E-03
Kr-88	3.24E-02	3.05E-02	2.87E-02	2.70E-02	2.54E-02	2.39E-02	2.25E-02	2.11E-02	1.98E-02	1.87E-02	1.78E-02	1.68E-02	1.58E-02	1.47E-02
Xe-133m	1.97E-01	1.98E-01	1.98E-01	1.95E-01	1.95E-01	1.94E-01	1.93E-01	1.93E-01	1.92E-01	1.92E-01	1.91E-01	1.90E-01	1.90E-01	1.89E-01
Xe-133	2.91E+00	2.89E+00	2.87E+00	2.84E+00	2.82E+00	2.79E+00	2.77E+00	2.75E+00	2.72E+00	2.70E+00	2.68E+00	2.65E+00	2.63E+00	2.61E+00
Xe-135m	8.57E-04	4.40E-04	2.28E-04	1.16E-04	5.87E-05	3.06E-05	1.57E-05	8.08E-06	4.15E-06	2.13E-06	1.09E-06	5.62E-07	2.89E-07	1.48E-07
Xe-135	9.40E-02	9.22E-02	9.04E-02	8.87E-02	8.71E-02	8.54E-02	8.38E-02	8.22E-02	8.07E-02	7.91E-02	7.76E-02	7.62E-02	7.47E-02	7.33E-02
Total Noble Gas	3.38E+00	3.32E+00	3.29E+00	3.24E+00	3.23E+00	3.20E+00	3.17E+00	3.16E+00	3.12E+00	3.09E+00	3.08E+00	3.04E+00	3.01E+00	2.98E+00
I-131	7.84E-02	7.83E-02	7.82E-02	7.82E-02	7.61E-02	7.80E-02	7.80E-02	7.59E-02	7.58E-02	7.58E-02	7.57E-02	7.56E-02	7.56E-02	7.55E-02
I-132	5.42E-02	5.04E-02	4.88E-02	4.38E-02	4.05E-02	3.77E-02	3.50E-02	3.26E-02	3.03E-02	2.81E-02	2.62E-02	2.43E-02	2.28E-02	2.10E-02
I-133	1.12E-01	1.11E-01	1.10E-01	1.09E-01	1.08E-01	1.07E-01	1.07E-01	1.06E-01	1.05E-01	1.04E-01	1.03E-01	1.02E-01	1.01E-01	1.00E-01
I-134	3.38E-03	2.78E-03	2.28E-03	1.88E-03	1.52E-03	1.25E-03	1.03E-03	8.42E-04	6.91E-04	5.67E-04	4.68E-04	3.82E-04	3.14E-04	2.57E-04
I-135	6.93E-02	6.75E-02	6.58E-02	6.41E-02	6.24E-02	6.08E-02	5.92E-02	5.77E-02	5.62E-02	5.47E-02	5.33E-02	5.19E-02	5.06E-02	4.93E-02
Total Iodine	3.16E-01	3.08E-01	3.01E-01	2.98E-01	2.89E-01	2.83E-01	2.78E-01	2.73E-01	2.68E-01	2.63E-01	2.60E-01	2.54E-01	2.50E-01	2.46E-01
Rb-88	9.03E-04	8.50E-04	8.00E-04	7.52E-04	7.08E-04	6.66E-04	6.27E-04	5.89E-04	5.55E-04	5.22E-04	4.91E-04	4.62E-04	4.35E-04	4.09E-04
Cs-134	8.23E-04	8.23E-04	8.23E-04	8.23E-04	8.23E-04	8.23E-04	8.23E-04	8.23E-04	8.23E-04	8.23E-04	8.23E-04	8.23E-04	8.23E-04	8.23E-04
Cs-138	8.92E-04	8.91E-04	8.91E-04	8.90E-04	8.90E-04	8.89E-04	8.89E-04	8.88E-04	8.88E-04	8.87E-04	8.87E-04	8.86E-04	8.86E-04	8.85E-04
Ca-137	5.00E-04	5.00E-04	5.00E-04	5.00E-04	5.00E-04	5.00E-04	5.00E-04	5.00E-04	5.00E-04	5.00E-04	5.00E-04	5.00E-04	5.00E-04	5.00E-04
Ca-138	9.77E-05	7.07E-05	5.12E-05	3.71E-05	2.69E-05	1.94E-05	1.41E-05	1.02E-05	7.38E-06	5.35E-06	3.87E-06	2.80E-06	2.03E-06	1.47E-06
Total Particulate	3.22E-03	3.14E-03	3.07E-03	3.00E-03	2.98E-03	2.90E-03	2.86E-03	2.81E-03	2.77E-03	2.74E-03	2.70E-03	2.67E-03	2.65E-03	2.62E-03
Total Activity	3.67E+00	3.63E+00	3.60E+00	3.58E+00	3.52E+00	3.49E+00	3.45E+00	3.42E+00	3.39E+00	3.38E+00	3.32E+00	3.29E+00	3.26E+00	3.23E+00
Time Since trip	1.50E+00	1.75E+00	2.00E+00	2.25E+00	2.50E+00	2.75E+00	3.00E+00	3.25E+00	3.50E+00	3.75E+00	4.00E+00	4.25E+00	4.50E+00	4.75E+00
Cont Pressure	5.00	4.00	3.00	2.50	2.00	1.75	1.40	1.20	1.00	0.80	0.60	0.50	0.25	0.00
Cont Vol M ³	9.38E+04	8.90E+04	8.43E+04	8.19E+04	7.95E+04	7.83E+04	7.67E+04	7.57E+04	7.48E+04	7.38E+04	7.29E+04	7.24E+04	7.12E+04	7.00E+04
Curies (NG)	3.15E+05	2.96E+05	2.77E+05	2.67E+05	2.57E+05	2.51E+05	2.43E+05	2.38E+05	2.33E+05	2.28E+05	2.23E+05	2.20E+05	2.14E+05	2.09E+05
CFR/hr	190	200	210	225	240	250	265	275	285	295	305	315	325	335
Charms	1858	1479	1321	1187	1071	1003	918	868	818	773	732	698	659	624

Note 1: Concentrations are determined using RMS as a reference.

Note 2: Results are based on collection, not analysis, time.

Note 3: There should be 1 hr between PASS collection and providing results.

PROCESS MONITORS
LIQUID (uCi/cc)

95_LIQ.XLS
6/9/95 10:36 AM

Time		7:00	9:30	9:45	11:30	12:30	13:30	14:30	15:30
LERE 59	Turbine Bldg. Drain	1.80E-07	1.80E-07	1.80E-07	1.80E-07	1.80E-07	1.80E-07	1.80E-07	1.80E-07
HFRE 45	Sec. Liquid Waste	5.50E-08	5.37E-08	5.37E-08	5.48E-08	5.65E-08	5.28E-08	5.39E-08	5.37E-08
FBRE 50	Aux. Steam Cond. Recovery Tank	4.23E-07	4.32E-07	4.32E-07	4.41E-07	4.16E-07	4.33E-07	4.18E-07	4.36E-07
EGRE 9/10	CCW	2.74E-07	2.86E-07	2.86E-07	2.72E-07	2.72E-07	2.60E-07	2.83E-07	2.76E-07
SJRE 02	S/G Liquid	4.35E-07	4.29E-07	4.29E-07	4.21E-07	4.37E-07	4.15E-07	4.18E-07	4.31E-07
BMRE 25	S/G Blowdown Process	5.12E-07	5.09E-07	5.09E-07	5.30E-07	4.92E-07	5.20E-07	4.90E-07	4.89E-07
BMRE 52	S/G Blowdown Discharge	3.48E-07	3.65E-07	3.65E-07	3.45E-07	3.39E-07	3.40E-07	3.34E-07	3.56E-07
SJRE 01	CVCS Letdown	2.60E+00	3.95E+00	3.95E+00	3.95E+00	3.95E+00	3.95E+00	3.95E+00	3.95E+00
HERE 16	Boron Recycle Distillate	3.16E-07	3.07E-07	3.07E-07	3.31E-07	3.01E-07	3.18E-07	3.03E-07	3.20E-07
HBRE18	Liquid Waste Discharge	3.56E-06	3.56E-06	3.56E-06	3.63E-06	3.55E-06	3.73E-06	3.66E-06	3.47E-06

IN-PLANT SURVEYS

RADIATION

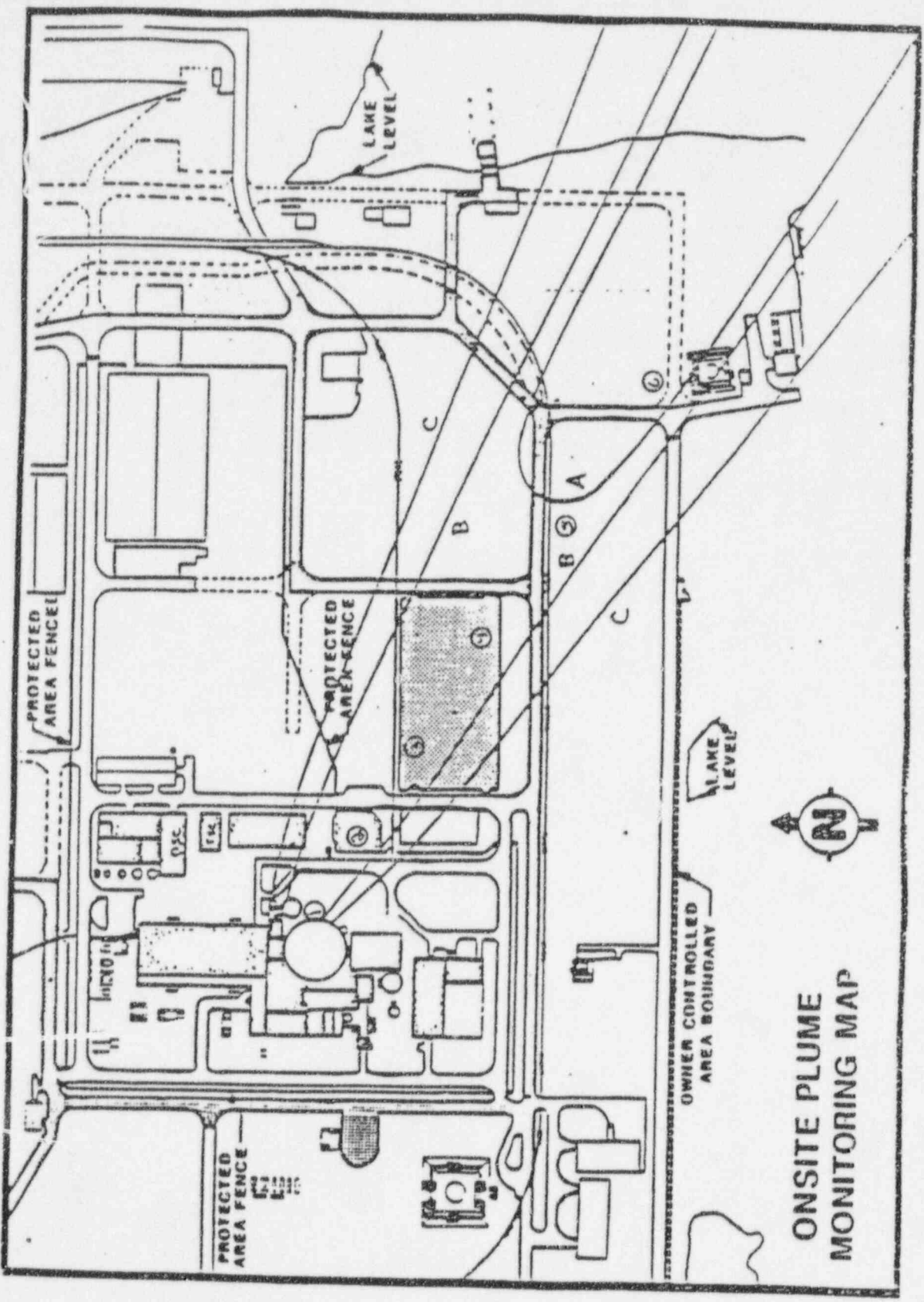
In-plant survey map data is provided in the following subsection. Data is provided for each floor level of the auxiliary, fuel and diesel generator buildings. Radiation data is provided in the units indicated. The data is designated by a letter and corresponds to the circled letter zones on the map.

Radiation levels indicated with a < sign indicate areas where readings will generally be below the lower level of detectability for instruments used in determining radiation levels.

Area radiation monitors are designated on the maps as the monitor number preceded by an "SD". The data for these monitors is provided in the area radiation monitoring data.

- ① 2000 R/HR
- ② 20 R/HR
- ③ 8 R/HR
- ④ 200 MR/HR
- ⑤ 100 MR/HR
- ⑥ 50 MR/HR

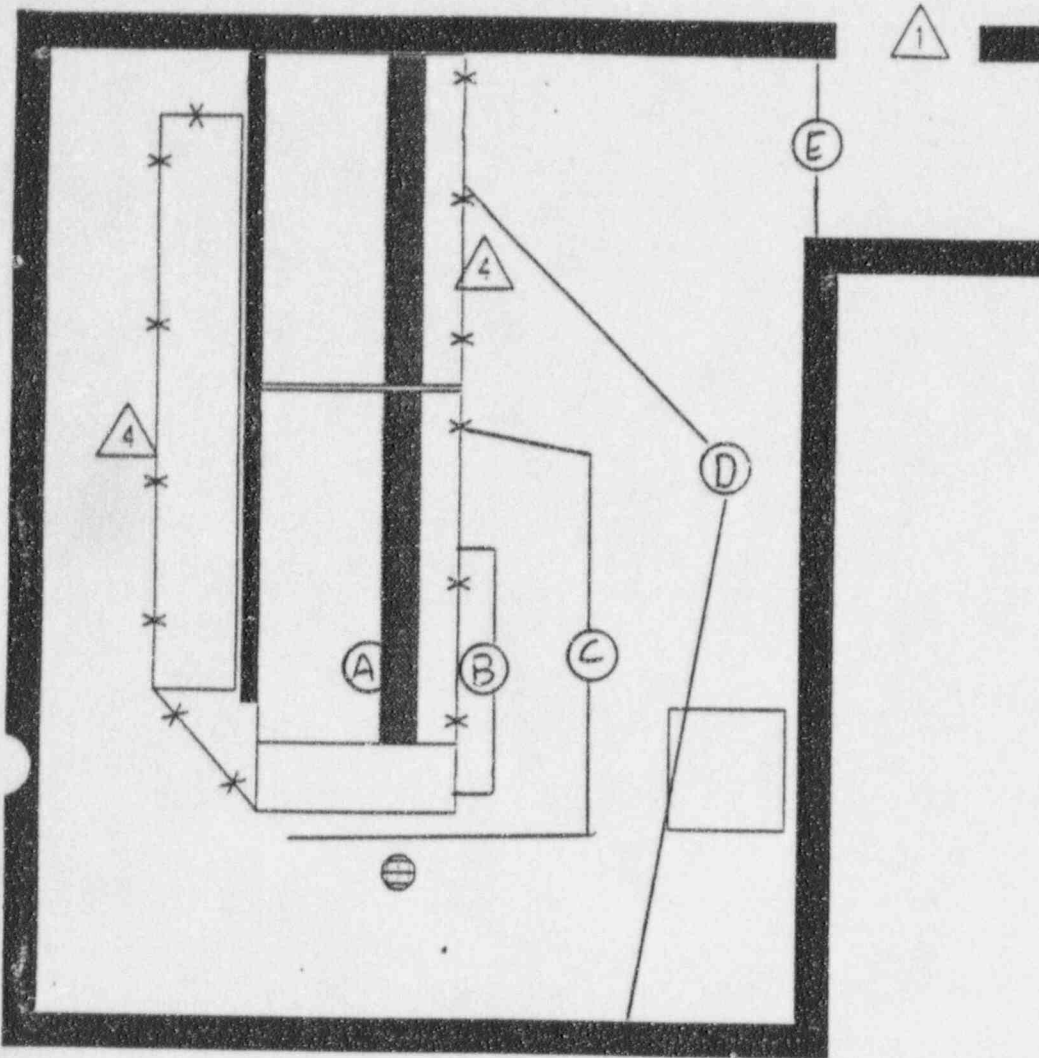
E-PLN SCENARIO 10/89



ONSITE PLUME
MONITORING MAP

RPF02-210-1(Q) REV 0

2000' AUX BLDG SJ SAMPLE PANEL RM #1311



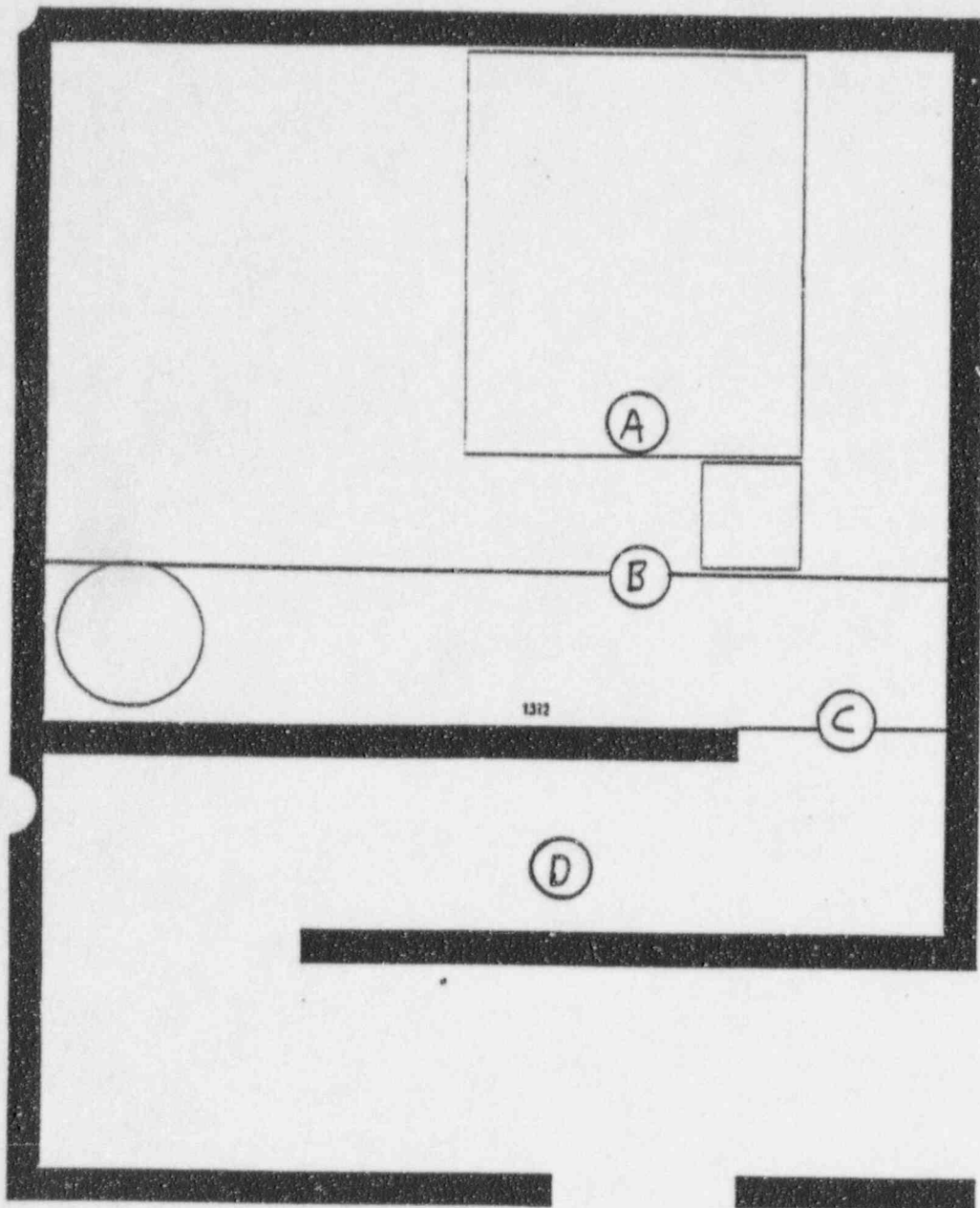
SJ SAMPLE ROOM

mR/HR

SJ SAMPLE ROOM		mR/HR					
	0805	0845	0915	0945	1015	1030	1230
A	25	25	25	25	500	1000	1800
B	12	12	12	12	75	150	160
C	8	8	8	8	20	40	50
D	2	2	2	2	8	10	10
E	.5	.5	.5	.5	1.5	2	2

RPF02-210-1(Q)REV 0

2000' AUX BLDG POST ACCIDENT SAMPLING SYSTEM RM #1312



PASS ROOM

mR/HR

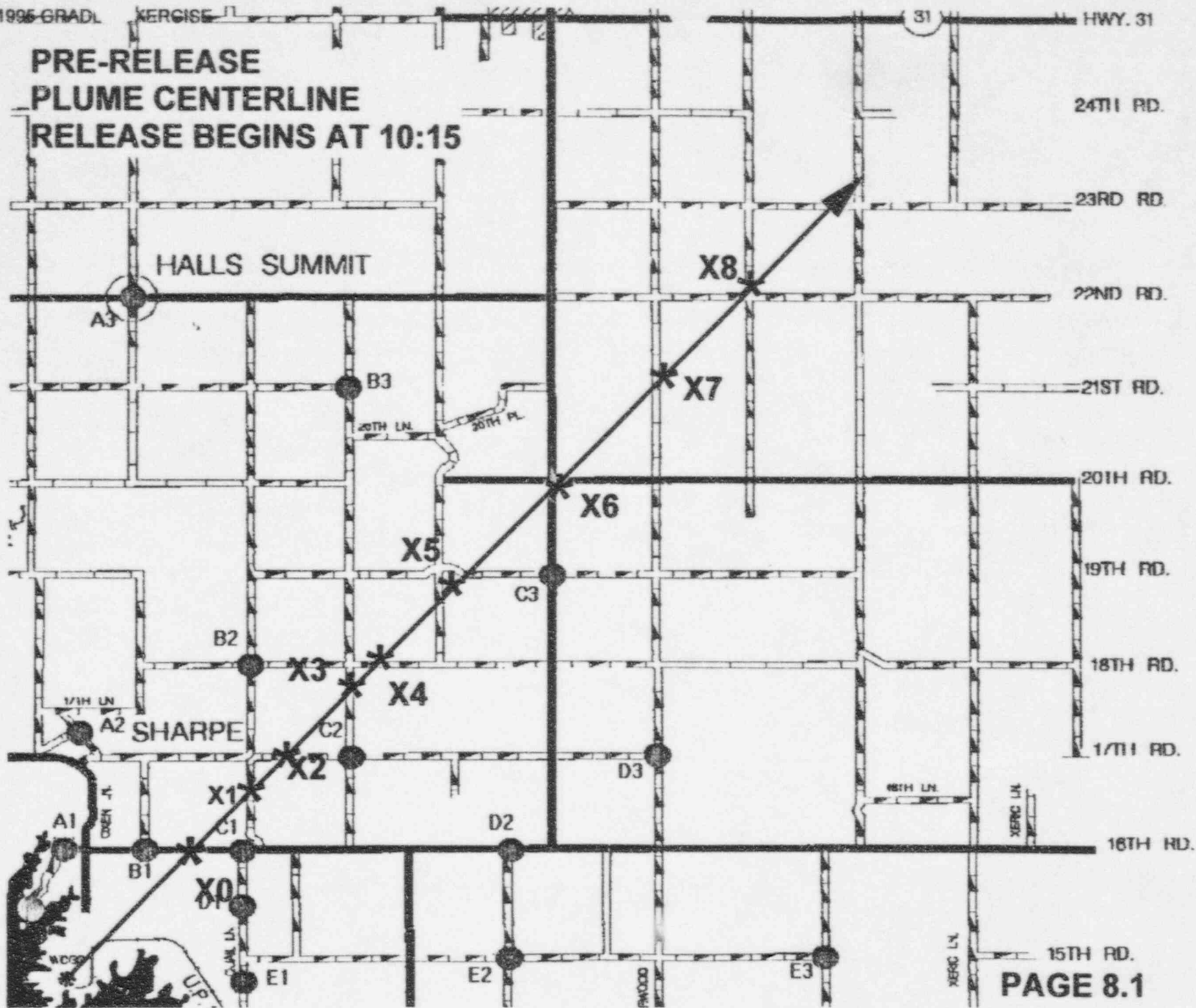
	0805	0845	0915	0945	1015	1030	1230
A	7	7	7	7	100	1200	1200
B	.5	.5	.5	.5	20	60	60
C	.2	.2	.2	.2	4	8	8
D	<.2	<.2	<.2	<.2	.5	1	1

SECTION 8.0

OFF-SITE PLUME CONCENTRATIONS AND DOSE RATES

<u>Subsections</u>	<u>Page</u>
PLUME PHASE - DAY 1	8.1
INGESTION PATHWAY - DAY 2	8.60

**PRE-RELEASE
PLUME CENTERLINE
RELEASE BEGINS AT 10:15**



COUNTY

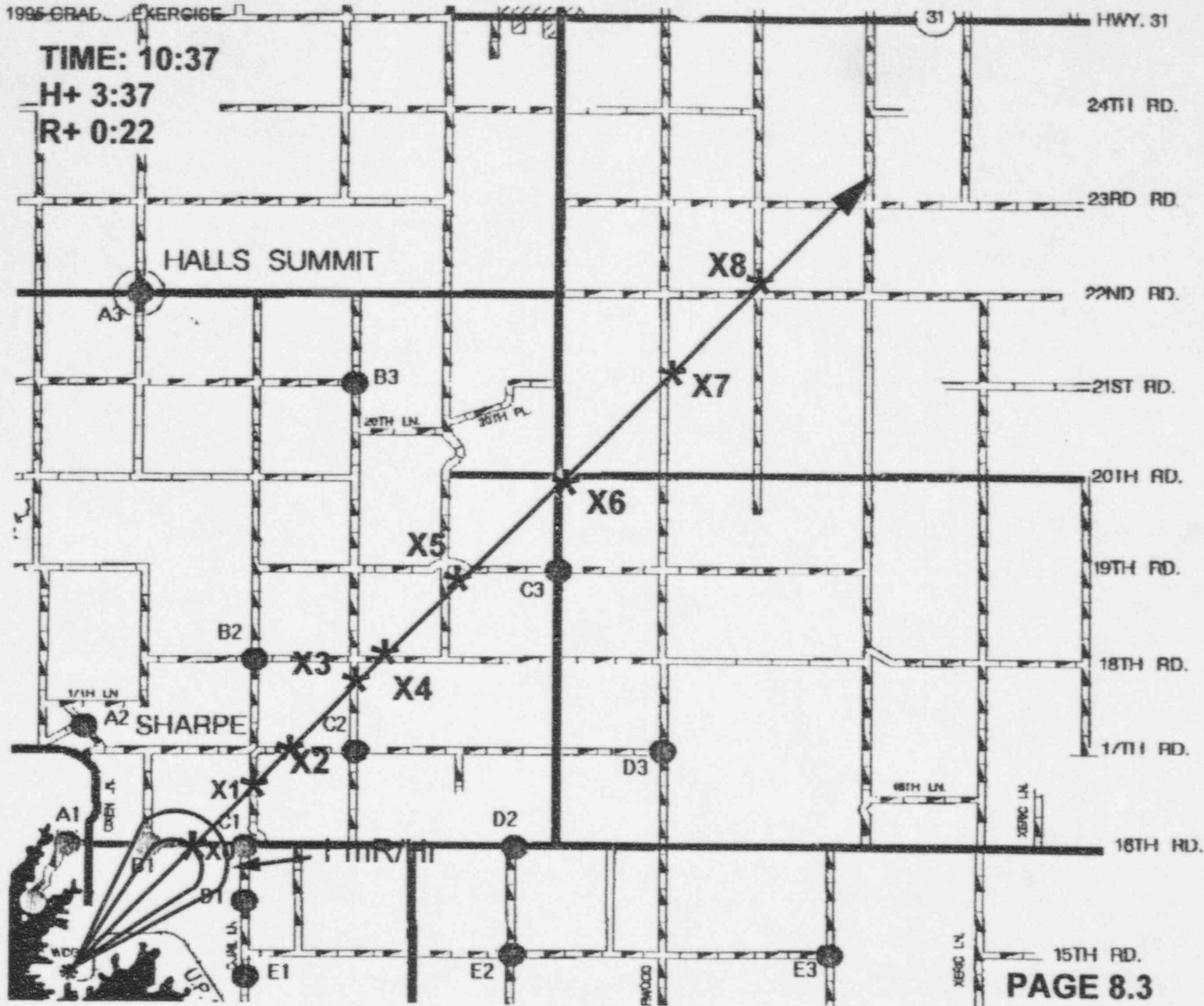
OFF-SITE FIELD DATA
 1995 GRADED EXERCISE

TIME	ACTUAL		16:37 AM		RELATIVE		3:37		POST RELEASE		8:27	
	DIST	X/D	OPEN	CLOSED	BETA	TEDE	PIC DOSE	RATE	PART	PART	1-2	1-2
	DOY		RRR	RRR	RRR	RRR	(Included)	CPM	CPM	CPM	CPM	CEDE
SEAB	8.76	2.64E-05	12.122	8.768	11.743	18.844	183.1	1.288	1.81E-08	282.382	1.13E-04	32.185
XO	1.85	8.23E-08	4.814	3.088	3.705	3.359	51.5	400	3.18E-09	82.784	3.57E-05	10.158

TIME: 10:37

H+ 3:37

R+ 0:22



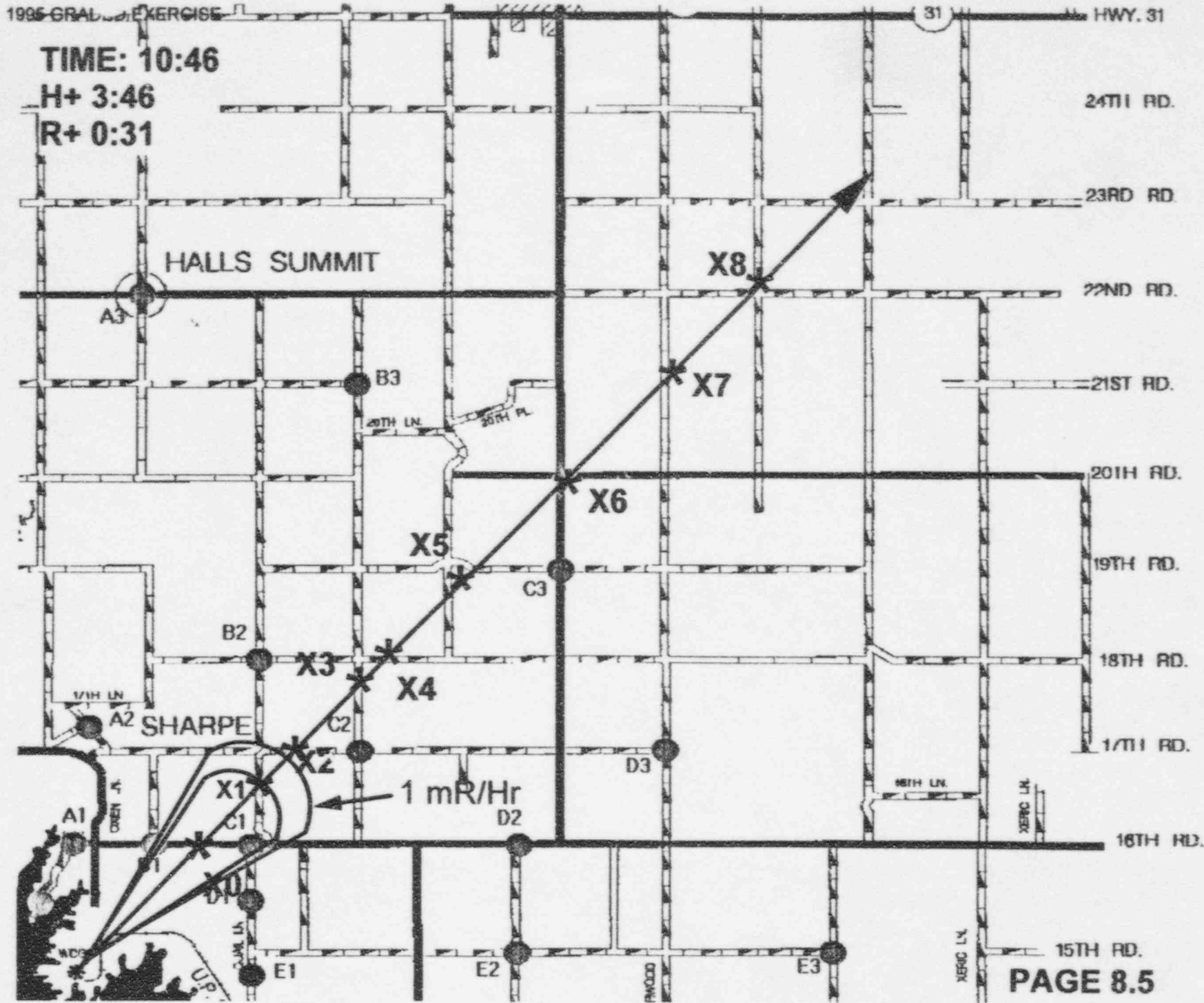
COUNTY

TIME	ACTUAL		10-48 AM		RELATIVE		3-48		POST RELEASE		0-31	
	DIST	X/D	OPEN	CLOSED	BETA	TEDE	PIC DOSE	PART	PART	1-2	1-2	1-2
	068	X/D	R/R	R/R	R/R	R/R	Rate	CPM	uCi/Sec	CPM	uCi/Sec	RHR
EAR	0.79	2.84E-05	11.137	5.987	16.281	8.318	142.8	1,118	0.23E-09	228,886	8.80E-05	28,194
XO	1.95	8.33E-05	4.014	3.089	3.705	3.359	51.5	489	3.18E-09	82,764	3.57E-05	10,158
ZNI	2.80	7.54E-05	3.834	2.795	3.354	3.048	48.8	382	2.88E-09	74,833	3.23E-05	8,195
AA	2.2	5.57E-05	2.884	2.055	2.478	2.246	34.4	268	2.13E-09	55,355	2.38E-05	6,793
TI	2.86	5.12E-05	2.467	1.856	2.278	2.094	31.6	246	1.95E-09	50,883	2.19E-05	6,244

TIME: 10:46

H+ 3:46

R+ 0:31



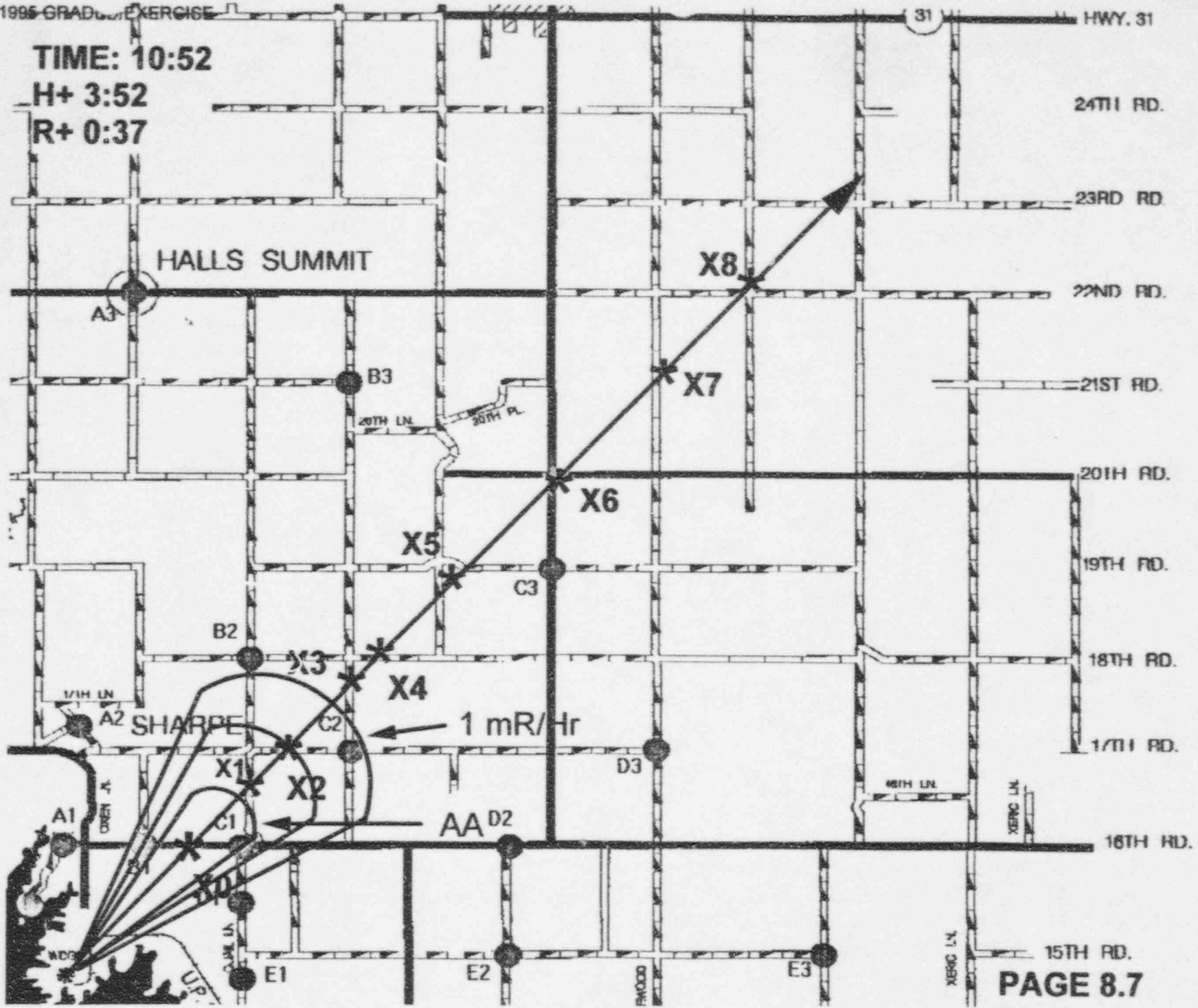
COUNTY

TIME	ACTUAL		RELATIVE				POST RELEASE					
	DIST GHI	KIG	OPEN ROSS	CLOSED ROSS	BETA ROSS	VEDE ROSS	PIC DOSE RATE (mCi/hr)	PART CPM	PART mCi/hr	1-2 CPM	1-2 mCi/hr	1-2 BMD
2A8	0.75	2.84E-05	11.137	8.967	18.281	9.318	142.8	1.119	8.83E-09	229.885	8.29E-05	28.184
X8	1.95	8.33E-08	3.514	2.703	3.244	2.940	45.1	350	2.79E-05	72.472	3.12E-05	8.805
2 M8	2.89	7.94E-08	3.834	2.795	3.354	3.848	48.0	382	2.88E-05	74.933	3.23E-05	9.185
AA	2.58	6.57E-08	2.684	2.065	2.478	2.245	34.4	268	2.13E-05	55.355	2.29E-05	8.793
X1	2.98	8.12E-08	2.487	1.898	2.278	2.254	31.8	248	1.89E-05	50.853	2.19E-05	8.244
X2	3.89	4.18E-08	2.014	1.548	1.859	1.685	25.8	27	1.89E-05	41.641	1.79E-05	5.097

TIME: 10:52

H+ 3:52

R+ 0:37



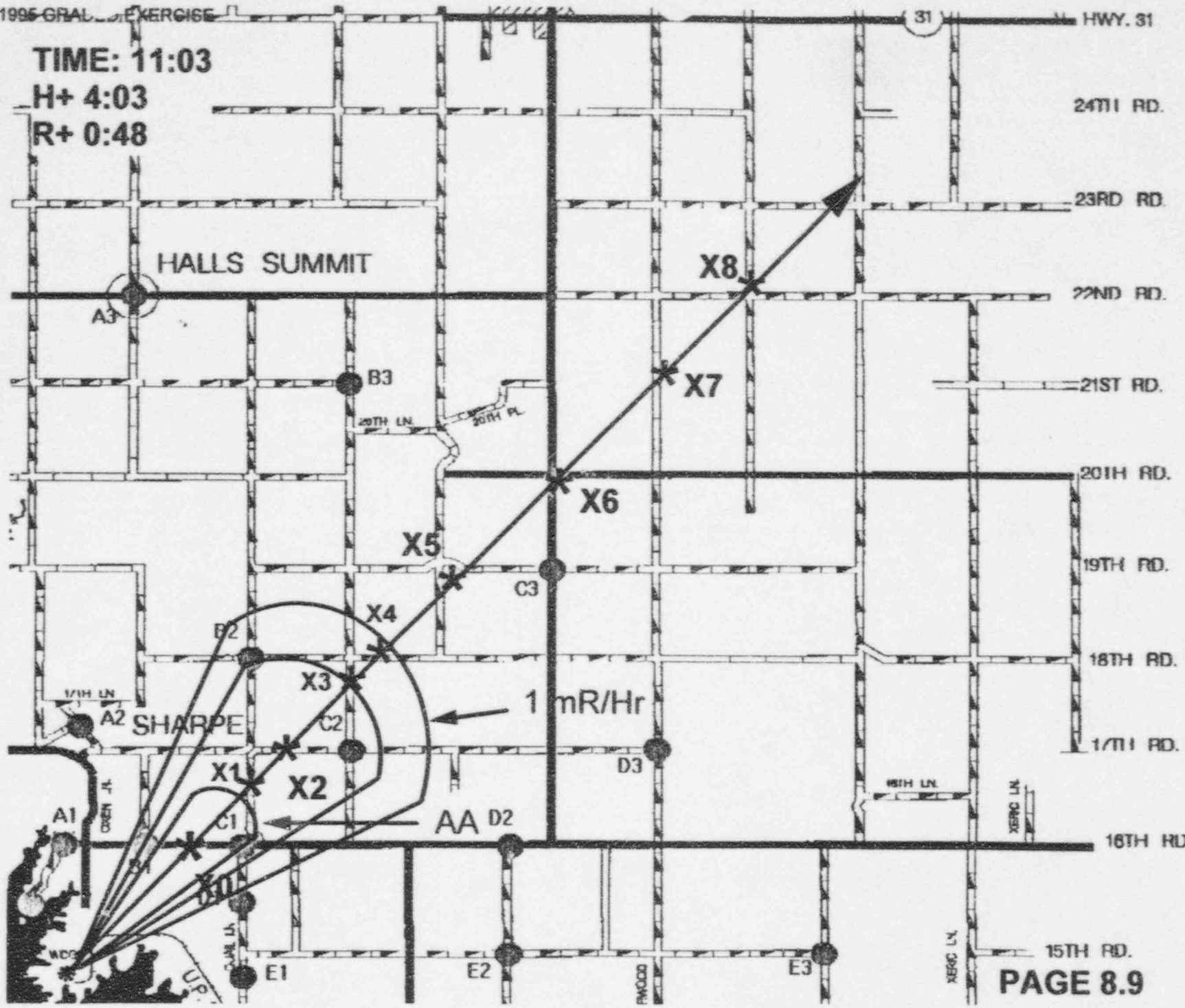
COUNTY

OFF-SITE FIELD DATA
1995 GRADED EXERCISE

OFFSITE.XLS
PREPARED USING EDGP
6/13/95, 5:01 PM

	TIME: ACTUAL 11:53 AM		RELATIVE 4:53				POST RELEASE 6:48					
	DIST (MI)	X/C	OPEN	CLOSED	BETA	TEDE	PIC DOSE RATE (mR/min)	PART CPM	PART uCi/cc	I-2 CPM	I-2 uCi/cc	I-2 R/R
ERB	0.75	2.84E-05	18.263	3.804	8.473	6.586	131.8	1.623	8.14E-09	211,808	9.12E-05	25.971
X0	1.05	8.33E-05	3.514	2.703	3.244	2.940	45.1	350	2.79E-09	72,472	3.12E-05	6.893
2 MI	2.00	7.54E-06	3.161	2.447	2.938	2.881	46.8	317	2.52E-09	86,599	2.83E-05	8.058
AA	2.50	6.67E-06	2.350	1.808	2.189	1.906	30.1	234	1.86E-09	48,480	2.09E-05	5.946
X1	2.00	5.12E-06	2.160	1.632	1.994	1.807	27.7	215	1.71E-09	44,545	1.92E-05	5.466
X2	3.00	4.18E-06	2.014	1.548	1.859	1.655	25.8	201	1.69E-09	41,541	1.79E-05	5.097
X3	4.00	2.90E-06	1.398	1.075	1.290	1.169	17.9	139	1.11E-09	28,821	1.24E-05	3.537

TIME: 11:03
H+ 4:03
R+ 0:48



COUNTY

TIME	ACTUAL		11:00 AM		RELATIVE		4:00		POST RELEASE		8:54	
	QST	X/D	OPEN	CLOSED	BETA	TEDE	RATE	CPM	PART	CPM	PART	CPM
EAR	0.75	2.64E 06	4.838	3.715	4.688	4.041	61.9	482	3.83E 06	88,808	4.29E 05	12,272
X0	1.95	6.37E 06	3.238	2.481	2.869	2.709	41.5	323	2.57E 06	66,781	2.88E 05	8,195
2 MI	2.68	7.54E 06	2.931	2.295	2.706	2.452	37.8	292	2.32E 06	60,448	2.81E 05	7,418
AR	2.58	6.57E 06	2.350	1.808	2.189	1.966	30.1	234	1.65E 06	48,480	2.09E 05	5,948
X1	2.96	8.17E 06	2.160	1.662	1.994	1.807	27.7	215	1.71E 06	44,545	1.52E 05	4,463
X2	3.88	8.19E 06	1.763	1.356	1.828	1.475	22.6	176	1.48E 06	36,367	1.57E 05	4,633
X3	4.88	2.86E 06	1.368	1.075	1.290	1.169	17.9	139	1.11E 06	28,821	1.24E 05	3,537
X4	4.82	2.96E 06	1.295	0.927	1.112	1.008	15.4	120	8.55E 10	24,645	1.07E 06	3,045

TIME: 11:09

H+ 4:09

R+ 0:54

HALLS SUMMIT

SHARPE

A1

A2

X1

X2

X3

X4

X5

X6

X7

X8

A3

B2

B3

C3

C2

D3

AA

D2

E1

E2

E3

31

HWY. 31

24TH RD.

23RD RD.

22ND RD.

21ST RD.

20TH RD.

19TH RD.

18TH RD.

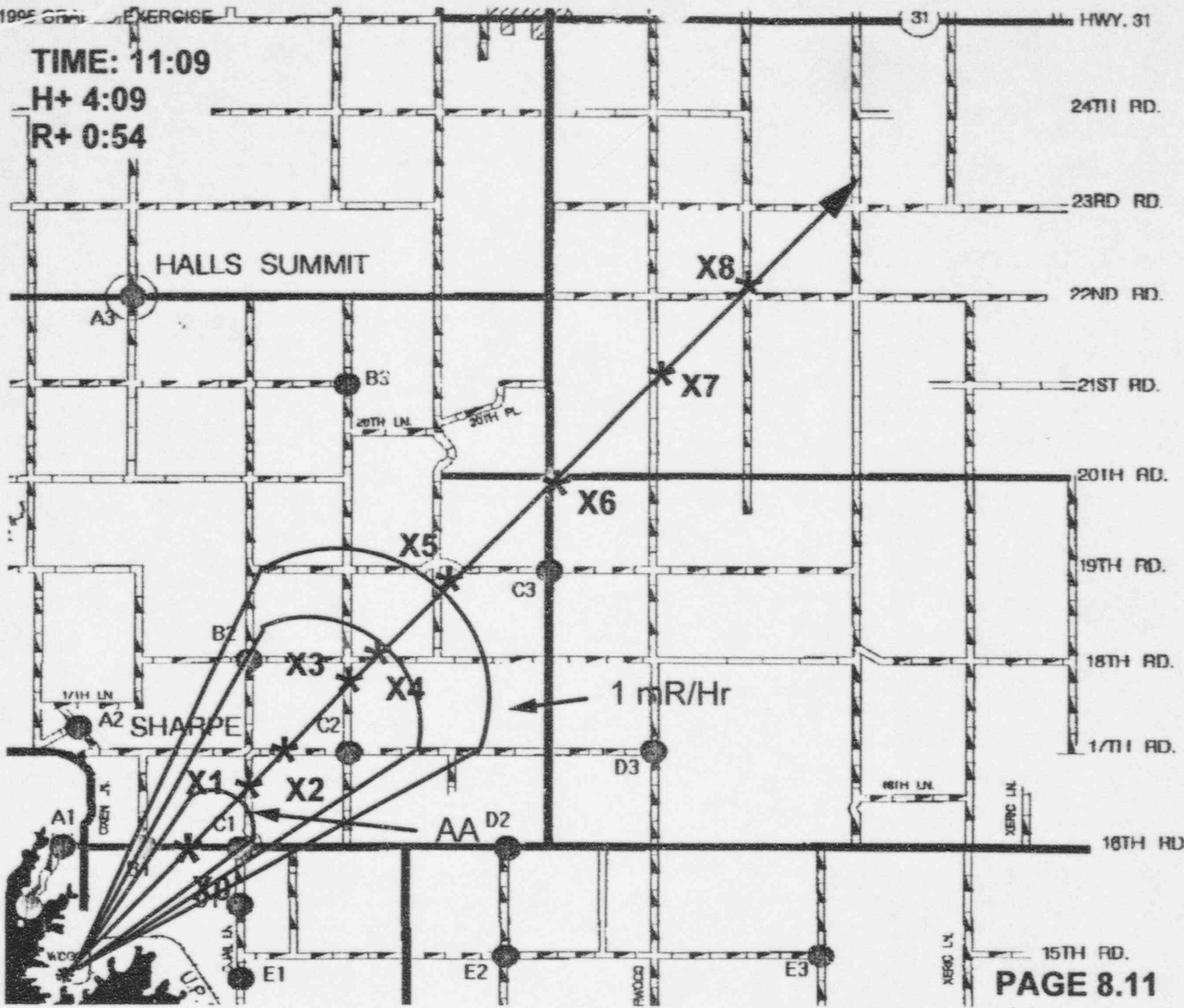
17TH RD.

16TH RD.

15TH RD.

COUNTY

1 mR/Hr

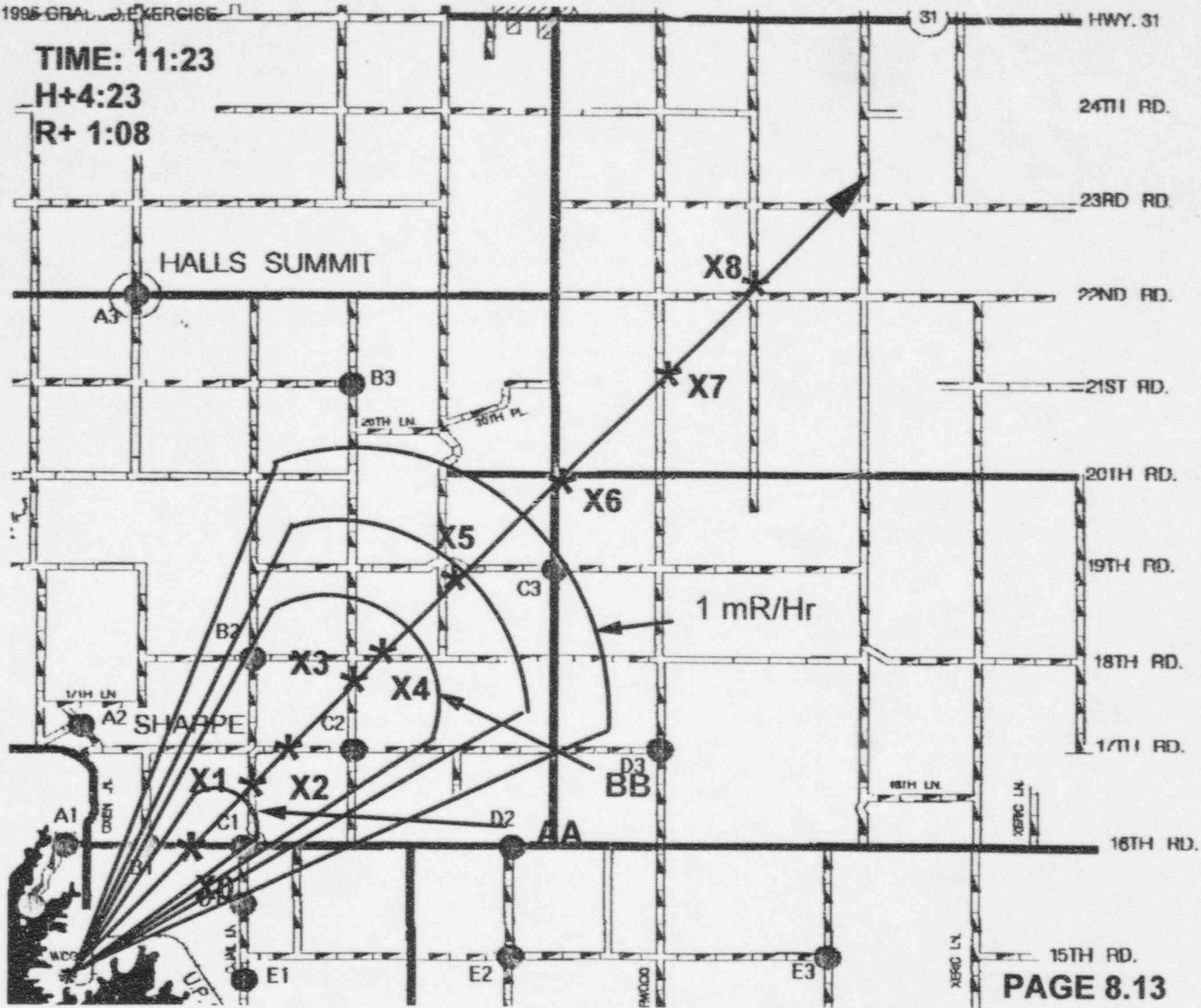


TIME	ACTUAL		RELATIVE				POST RELEASE					
	DIST [m]	X10	OPER RHR	CLOSED RHR	BETA RHR	TEDE RHR	PIC VOISE RATE [m/s]	PART CPM	PART uCi/cc	12 CPM	12 uCi/cc	12 RHR
EAB	0.75	2.94E-05	4.938	3.716	4.458	4.941	81.9	482	3.83E-09	80.885	4.29E-05	12.272
X0	1.06	0.33E-06	1.524	1.172	1.407	1.775	19.5	152	1.21E-09	31.429	1.36E-05	3.957
Z NH	2.80	7.54E-06	2.931	2.255	2.760	2.462	37.8	292	2.32E-09	68.448	2.81E-05	7.816
SA	2.96	5.57E-06	2.185	1.888	1.999	1.812	27.6	216	1.72E-09	44.655	1.92E-05	5.480
X1	2.88	5.12E-06	1.960	1.531	1.837	1.805	25.5	198	1.58E-09	41.047	1.77E-05	5.037
X2	3.00	4.18E-06	1.763	1.358	1.628	1.475	22.6	178	1.40E-09	38.387	1.57E-05	4.403
X3	4.86	2.90E-06	1.223	0.941	1.129	1.024	15.7	122	9.70E-10	25.231	1.09E-05	3.096
X4	4.52	2.50E-06	1.205	0.927	1.112	1.008	15.4	120	8.55E-10	24.845	1.07E-05	3.049
S NH/08	5.00	2.18E-06	1.891	1.368	1.576	1.479	13.5	165	6.33E-10	21.689	8.34E-06	2.659
X5	5.88	1.83E-06	0.882	0.678	0.814	0.738	11.3	88	6.99E-10	18.187	7.94E-06	2.232

TIME: 11:23

H+4:23

R+ 1:08



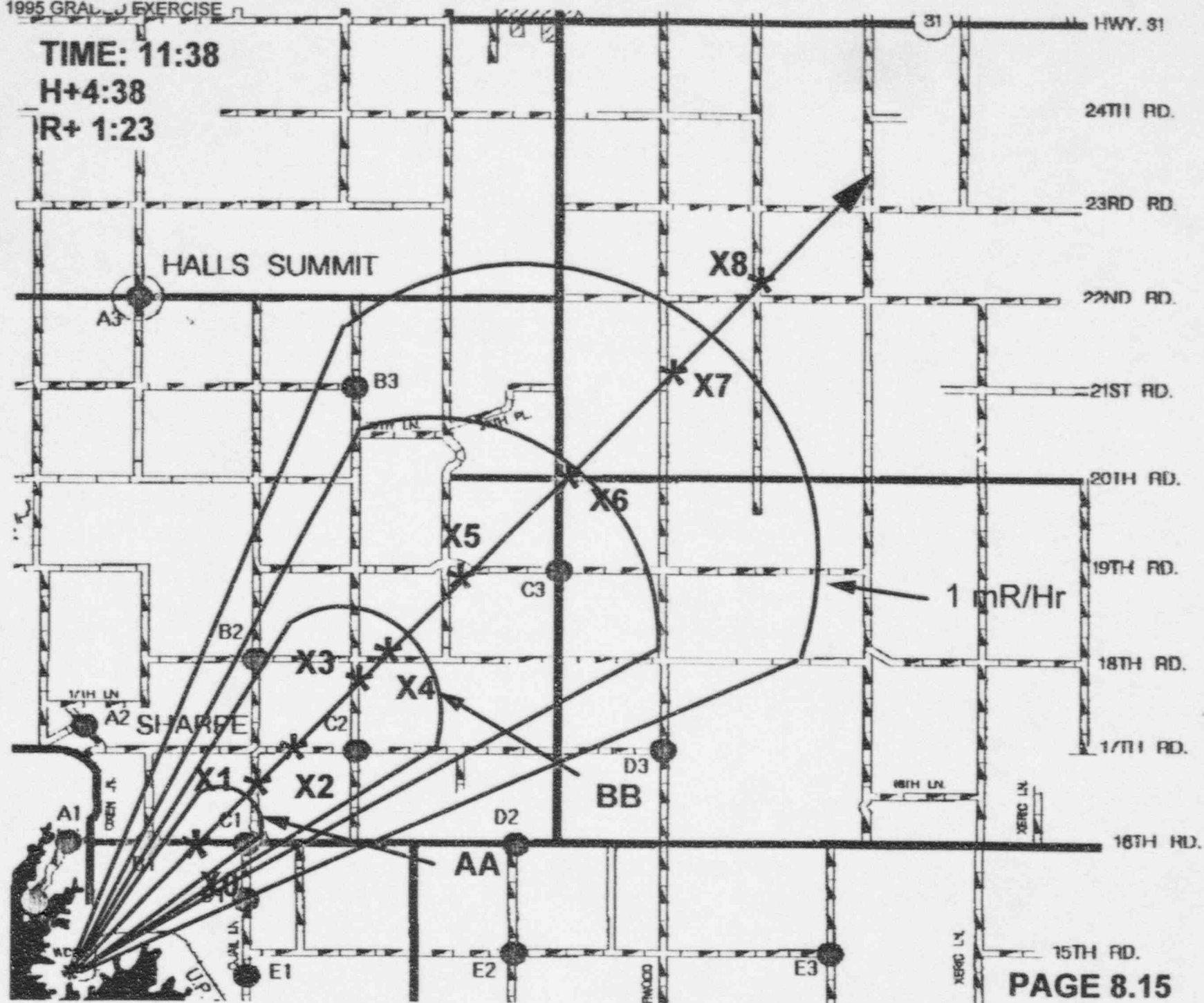
COUNTY

TIME	ACTUAL		RELATIVE				4-36		1-23			
	DIST	X30	OPEN	CLOSED	BETA	TEDE	PIC ROSE	FARY	PART	12	12	12
	000		RHR	RHR	RHR	RHR	Rate	CPM	uCl/c	CPM	uCl/c	RHR
2AB	0.75	2.94E-05	4.537	3.490	4.189	3.796	65.2	4.57E+02	3.80E-09	83978	4.83E-05	11.403
2B	1.85	8.33E-06	1.632	1.101	1.322	1.198	18.4	1.43E+02	1.14E-09	25528	1.27E-05	3.523
2MI	2.89	7.54E-06	1.379	1.891	1.273	1.164	17.7	1.38E+02	1.89E-09	26448	1.23E-05	3.491
2A	2.59	5.37E-06	1.019	0.794	0.941	0.853	13.1	1.02E+02	6.08E-10	21015	9.06E-06	2.579
X1	2.68	5.12E-06	0.937	0.721	0.825	0.784	12.0	9.34E+01	7.43E-10	19317	8.33E-06	2.370
X2	3.08	4.18E-06	0.705	0.588	0.708	0.640	9.8	7.82E+01	6.08E-10	15771	5.86E-06	1.836
X3	4.85	2.90E-06	1.127	0.867	1.041	0.943	14.5	1.12E+02	8.94E-10	23249	1.00E-05	2.853
X4	4.53	2.80E-06	1.055	0.811	0.974	0.882	13.5	1.05E+02	8.38E-10	21750	9.38E-06	2.629
5MI/88	5.00	2.18E-06	0.928	0.787	0.848	0.789	11.9	8.17E+01	7.29E-10	18888	8.10E-06	2.327
X5	1.89	1.83E-06	0.772	0.504	0.713	0.646	9.9	7.70E+01	6.12E-10	15921	8.89E-06	1.954
X8	8.99	1.37E-06	0.650	0.506	0.609	0.552	8.5	6.59E+01	5.23E-10	13615	5.97E-06	1.671

TIME: 11:38

H+4:38

R+ 1:23



OFF-SITE FIELD DATA
1995 GRADED EXERCISE

OFFSITE J-1
PREPARED USING EI CP
8/1/95, 5:01 AM

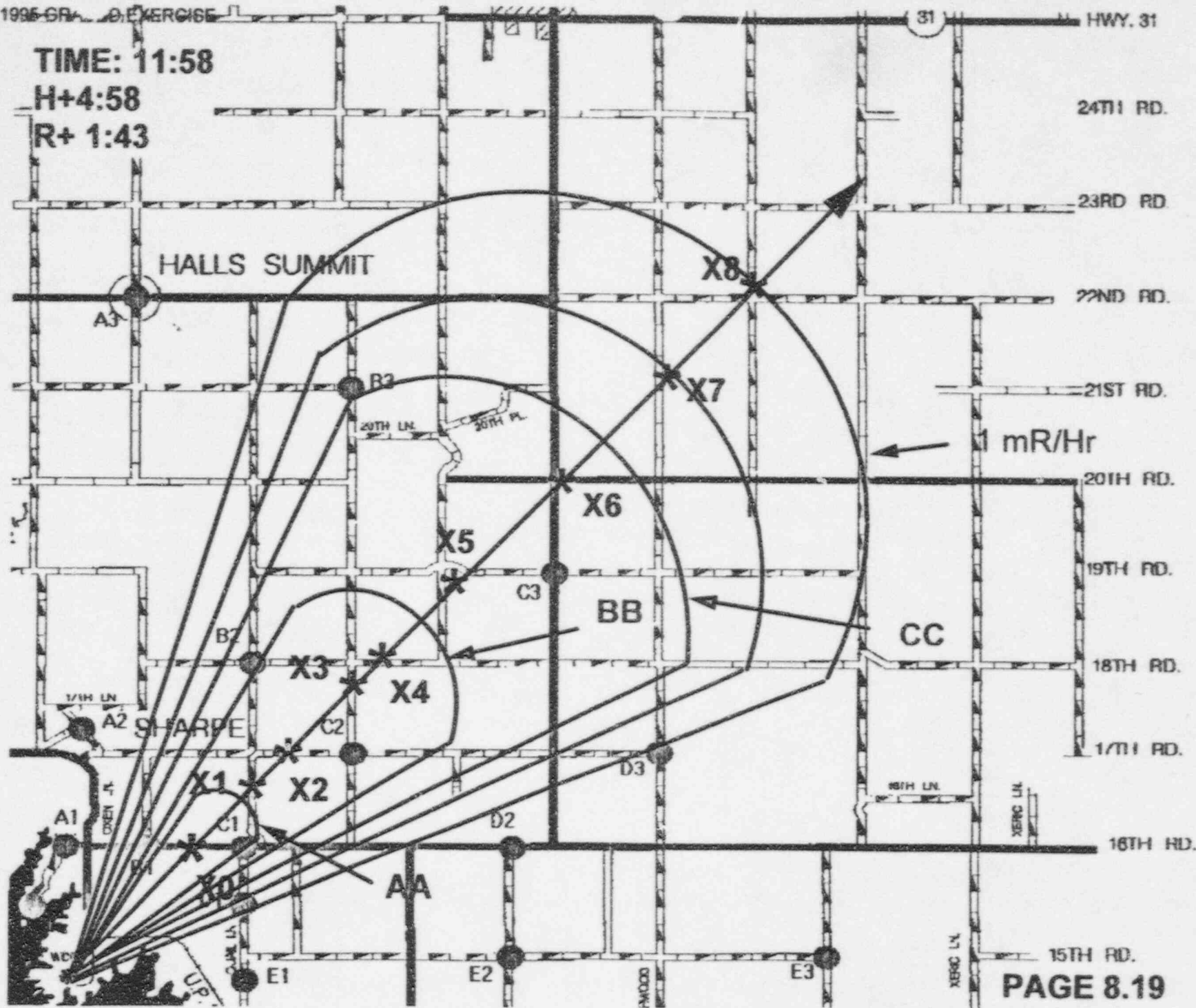
TIME	ACTUAL		11:45 AM		RELATIVE		4-85		POST RELEASE		1-39		
	DIST MIG	X10	OPER RHR	CLOSED RHR	BETA RHR	TEDE RHR	RATE perMin	PART CPM	PART uCi/cc	PART CPM	PART uCi/cc	I-2 CPM	I-2 uCi/cc
EAR	0.75	2.84E-05	2.260	1.899	2.038	1.847	28.3	2.26E+02	1.75E-09	455.38	1.98E-05	5.580	5.580
X8	1.05	8.33E-09	1.432	1.101	1.322	1.158	18.4	1.43E+02	1.14E-09	295.28	1.27E-05	3.623	3.623
Z MI	2.00	7.54E-08	1.296	0.597	1.188	1.068	16.8	1.29E+02	1.03E-09	267.98	1.18E-05	3.279	3.279
AA	2.50	5.57E-08	0.957	0.738	0.884	0.801	12.3	0.95E+01	7.59E-10	197.43	8.51E-06	2.423	2.423
X1	2.60	5.12E-08	0.937	0.721	0.865	0.784	12.0	9.34E+01	7.43E-10	183.17	8.33E-06	2.370	2.370
X2	3.00	4.18E-08	0.785	0.588	0.708	0.640	8.8	7.82E+01	6.06E-10	157.71	6.90E-06	1.935	1.935
X3	4.05	2.90E-08	1.127	0.867	1.041	0.943	14.5	1.12E+02	8.94E-10	232.49	1.00E-05	2.853	2.853
XA	4.52	2.58E-08	0.972	0.748	0.897	0.813	12.5	0.89E+01	7.71E-10	200.42	8.84E-06	2.459	2.459
5 MI / 88	5.00	2.18E-08	0.847	0.652	0.762	0.709	10.9	8.45E+01	6.72E-10	174.77	7.53E-06	2.145	2.145
X5	5.00	1.83E-08	0.772	0.594	0.713	0.648	8.9	7.79E+01	6.17E-10	158.81	6.86E-06	1.954	1.954
X6	6.00	1.37E-08	0.660	0.505	0.600	0.552	8.5	5.98E+01	5.23E-10	138.15	5.87E-06	1.671	1.671
CC	7.50	1.24E-08	0.598	0.489	0.562	0.508	7.7	5.90E+01	4.74E-10	123.23	5.31E-06	1.512	1.512

TIME	ACTUAL		RELATIVE				4-58		POST RELEASE		1-43	
	DIST GAI	X10	OPEN	CLOSED	BETA	TEDE	PC DOSE RATE	PART CPM	PART uCi/cc	I2 CPM	I2 uCi/cc	I2 BMR
EAB	0.75	2.04E-05	2.178	1.045	1.914	1.789	27.4	2.13E-02	1.78E-08	44188	1.90E-05	5.417
X0	1.85	8.32E-08	0.697	0.535	0.643	0.593	2.9	8.95E-01	5.57E-10	14389	8.19E-08	1.703
2 MI	2.88	7.54E-08	0.831	0.485	0.582	0.528	8.1	8.29E-01	5.80E-16	13888	5.81E-08	1.896
AA	2.58	5.37E-08	0.957	0.736	0.894	0.801	12.3	8.95E-01	7.59E-10	19743	8.51E-08	2.425
X1	2.88	5.17E-08	0.880	0.677	0.812	0.758	11.3	8.77E-01	6.38E-10	18148	7.82E-08	2.227
X2	3.88	4.18E-08	0.718	0.553	0.683	0.601	8.2	7.16E-01	5.70E-10	14818	6.39E-08	1.818
X3	4.85	2.90E-08	0.531	0.408	0.490	0.444	6.8	5.29E-01	4.21E-10	10942	4.72E-08	1.343
X4	4.82	2.50E-08	0.457	0.352	0.422	0.393	5.9	4.50E-01	3.63E-10	9432	4.07E-08	1.157
5 MI / 88	5.88	1.82E-08	0.847	0.652	0.782	0.709	18.9	8.40E-01	6.72E-10	17477	7.53E-08	2.145
X5	5.88	1.82E-08	0.713	0.547	0.653	0.595	8.1	7.09E-01	5.84E-10	14871	6.32E-08	1.808
X6	6.28	1.31E-08	0.578	0.445	0.534	0.484	7.4	5.78E-01	4.58E-10	11919	5.14E-08	1.403
CC	7.58	1.24E-08	0.588	0.488	0.552	0.508	7.7	5.96E-01	4.74E-10	12223	5.31E-08	1.512
X7	8.55	1.02E-08	0.482	0.378	0.454	0.411	6.3	4.90E-01	3.90E-10	10137	4.37E-08	1.244

TIME: 11:58

H+4:58

R+ 1:43



COUNTY

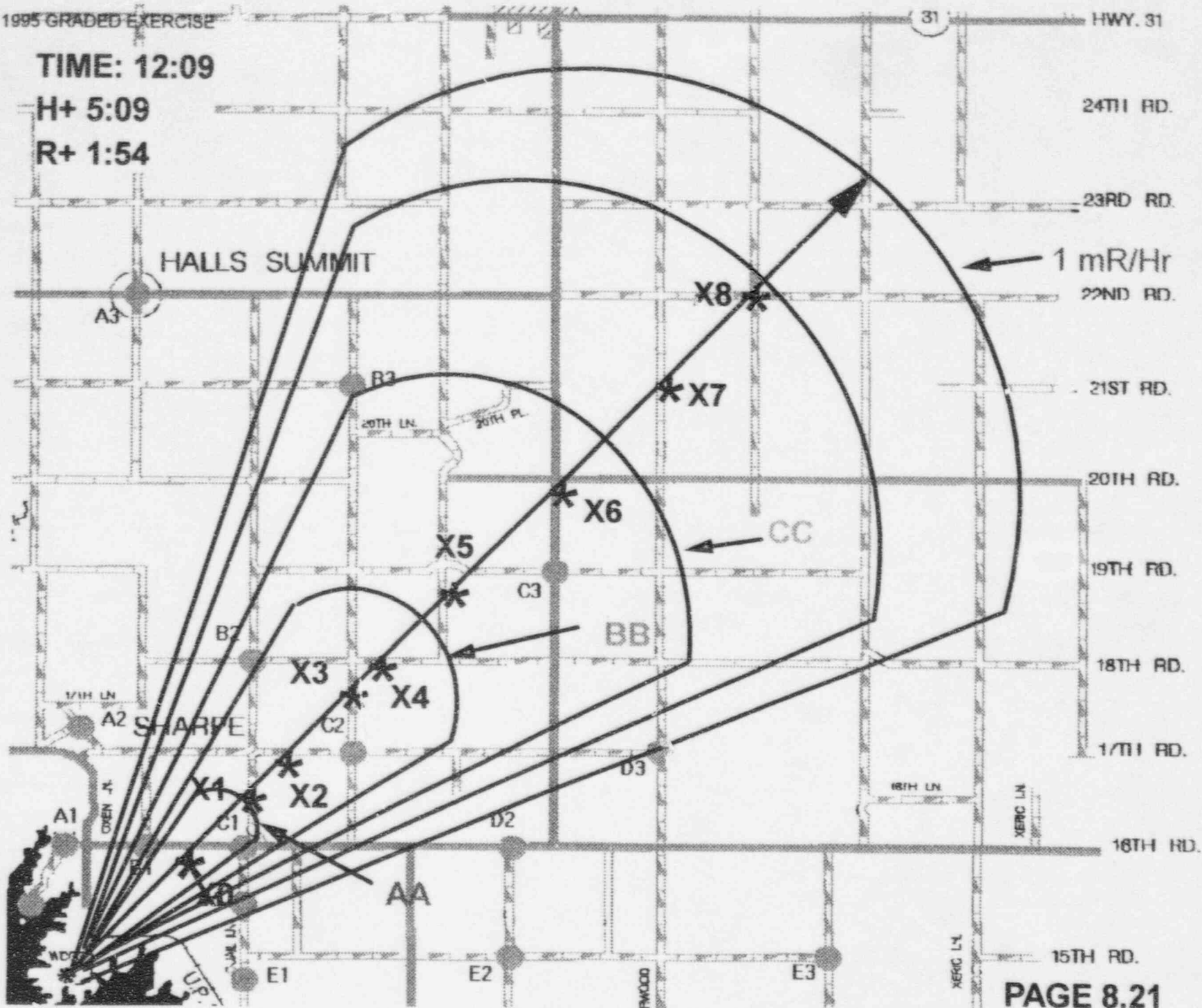
TIME	ACTUAL		12:00 PM		RELATIVE		5:00		POST RELEASE		1:54		
	DIST (MI)	X/D	OPEN RHR	CLOSED RHR	BETA RHR	TEDE RHR	PIC BOISE RATE (mR/hr)	PART CPM	PART uCi/cc	PART CPM	PART uCi/cc	I-2 CPM	I-2 uCi/cc
SAB	0.75	2.64E-05	1.828	0.791	0.950	0.881	12.3	1.83E+02	8.18E-10	21778	8.15E-08	2.804	
X8	1.85	0.33E-06	0.675	0.519	0.623	0.565	8.7	8.73E+01	5.36E-10	13917	6.00E-08	1.708	
ZMS	2.00	7.54E-05	0.811	0.470	0.964	0.511	7.0	8.09E+01	4.84E-10	12597	5.43E-08	1.546	
AA	2.60	0.37E-05	0.468	0.350	0.430	0.380	6.0	4.65E+01	2.68E-10	8608	4.14E-08	1.179	
X1	2.88	0.17E-06	0.478	0.228	0.285	0.268	5.5	4.27E+01	3.40E-10	6032	3.81E-08	1.064	
X2	3.08	4.18E-08	0.350	0.208	0.223	0.203	4.5	3.40E+01	2.77E-10	7210	3.11E-08	0.885	
X3	4.05	2.90E-06	0.498	0.283	0.480	0.417	6.4	4.97E+01	3.95E-10	10278	4.43E-08	1.261	
X4	4.57	2.50E-08	0.430	0.301	0.387	0.358	5.5	4.20E+01	3.41E-10	8881	3.82E-08	1.087	
SMA/BB	5.00	2.18E-06	0.309	0.207	0.388	0.334	5.1	3.86E+01	3.18E-10	8226	3.55E-08	1.008	
X5	6.88	1.83E-08	0.375	0.258	0.309	0.277	4.3	2.34E+01	2.89E-10	6894	2.99E-08	0.847	
X6	8.85	1.37E-06	0.533	0.410	1.492	0.666	6.8	5.31E+01	4.22E-10	10883	4.73E-08	1.345	
CC	7.58	1.24E-08	0.523	0.402	0.482	0.438	6.7	5.22E+01	4.15E-10	9798	4.65E-08	1.324	
X7	8.85	1.82E-06	0.482	0.378	0.461	0.411	6.3	4.98E+01	3.90E-10	10137	4.37E-08	1.244	
X8	8.84	2.93E-07	0.430	0.321	0.387	0.300	5.5	4.28E+01	3.41E-10	8875	3.83E-08	1.088	

1995 GRADED EXERCISE

TIME: 12:09

H+ 5:09

R+ 1:54



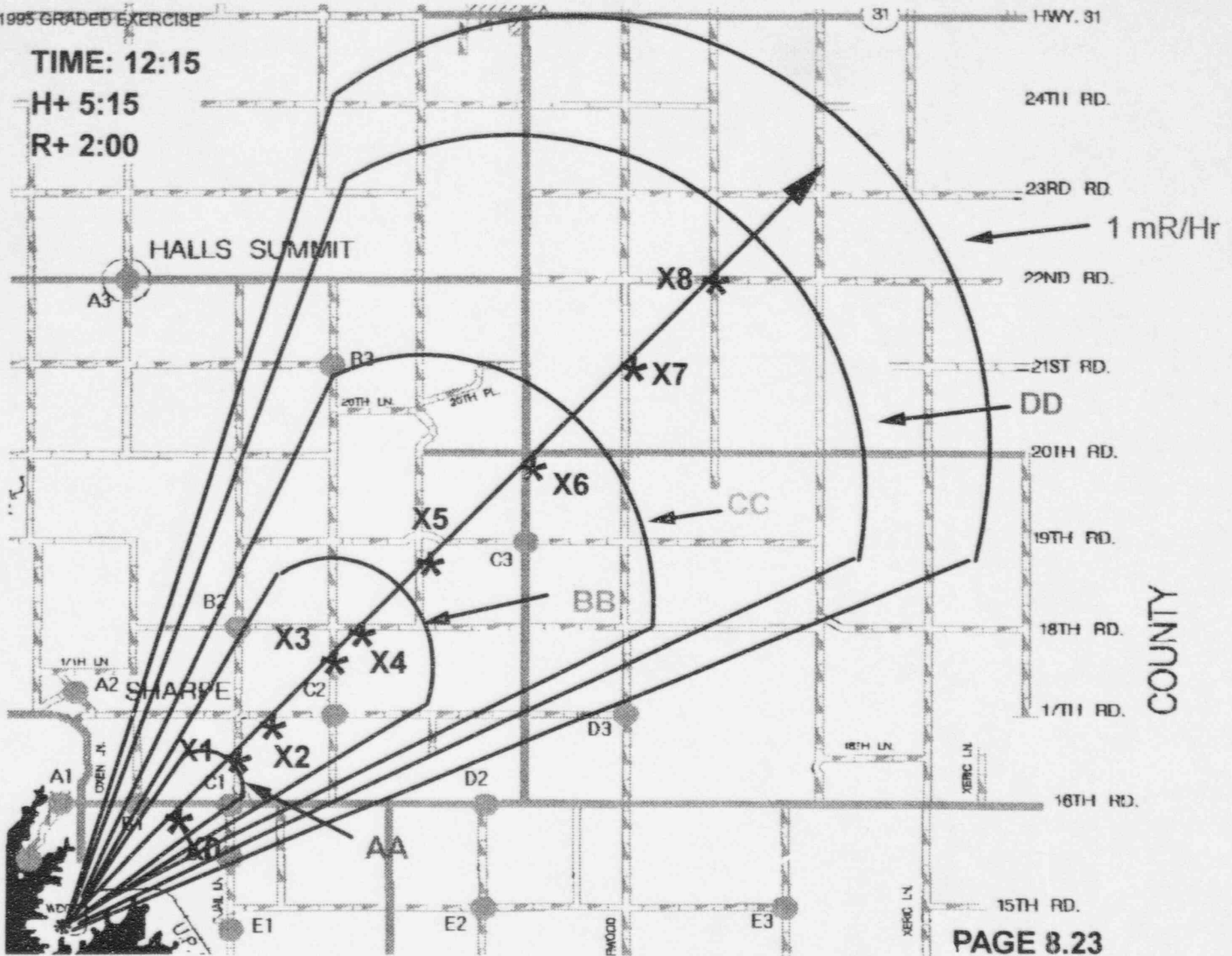
TIME	ACTUAL		RELATIVE				6-15		POST RELEASE		2-00	
	DIRT MBD	X/D	OPEN RMR	CLOSED RMR	BETA RMR	TEDE RMR	PGZ DOSE RATE (mCi/cc)	PART CPM	PART mCi/cc	1-2 CPM	1-2 mCi/cc	1-2 RMR
EAB	0.75	2.04E-05	1.078	0.791	0.958	0.881	13.7	1.03E+02	8.10E-10	21218	8.19E-08	2.004
X0	1.05	8.32E-06	0.675	0.519	0.873	0.565	8.7	6.73E+01	5.35E-10	13917	6.02E-08	1.706
Z MI	2.06	7.54E-06	0.811	0.478	6.594	0.511	7.8	6.98E+01	4.64E-10	12597	5.93E-08	1.546
AA	2.58	5.57E-06	0.451	0.347	0.417	0.378	5.8	4.50E+01	3.58E-10	5096	4.01E-08	1.142
X1	2.88	5.17E-06	0.428	0.329	0.365	0.258	9.2	4.27E+01	3.40E-10	8832	3.01E-08	1.064
X2	3.09	4.18E-06	0.718	0.553	0.663	0.601	9.2	7.18E+01	5.70E-10	14618	6.70E-08	1.818
X3	4.08	2.80E-06	0.458	0.383	0.468	0.417	6.3	4.97E+01	3.95E-10	10279	4.43E-08	1.261
X4	4.32	2.60E-06	0.457	0.352	0.472	0.383	5.9	4.58E+01	3.83E-10	8432	4.07E-08	1.157
5 MI / 00	8.80	2.18E-06	0.375	0.288	0.348	0.313	4.9	3.76E+01	2.91E-10	7727	3.13E-08	0.949
X5	9.98	1.83E-06	0.335	0.258	0.308	0.280	4.3	3.34E+01	2.65E-10	6804	2.98E-08	0.847
00	8.98	1.37E-06	0.533	0.410	0.492	0.446	6.9	5.31E+01	4.27E-10	10883	4.73E-08	1.348
CC	7.88	1.24E-06	0.482	0.371	0.445	0.403	6.2	4.81E+01	3.82E-10	8941	4.29E-08	1.220
X7	8.85	1.02E-06	0.430	0.331	0.397	0.369	5.5	4.29E+01	3.41E-10	8874	3.82E-08	1.089
X8	9.94	8.83E-07	0.430	0.331	0.397	0.369	5.5	4.29E+01	3.41E-10	8874	3.82E-08	1.089
10 MI / 00	10.88	8.36E-07	0.483	0.318	0.372	0.337	5.2	4.02E+01	3.19E-10	8308	3.59E-08	1.019

1995 GRADED EXERCISE

TIME: 12:15

H+ 5:15

R+ 2:00



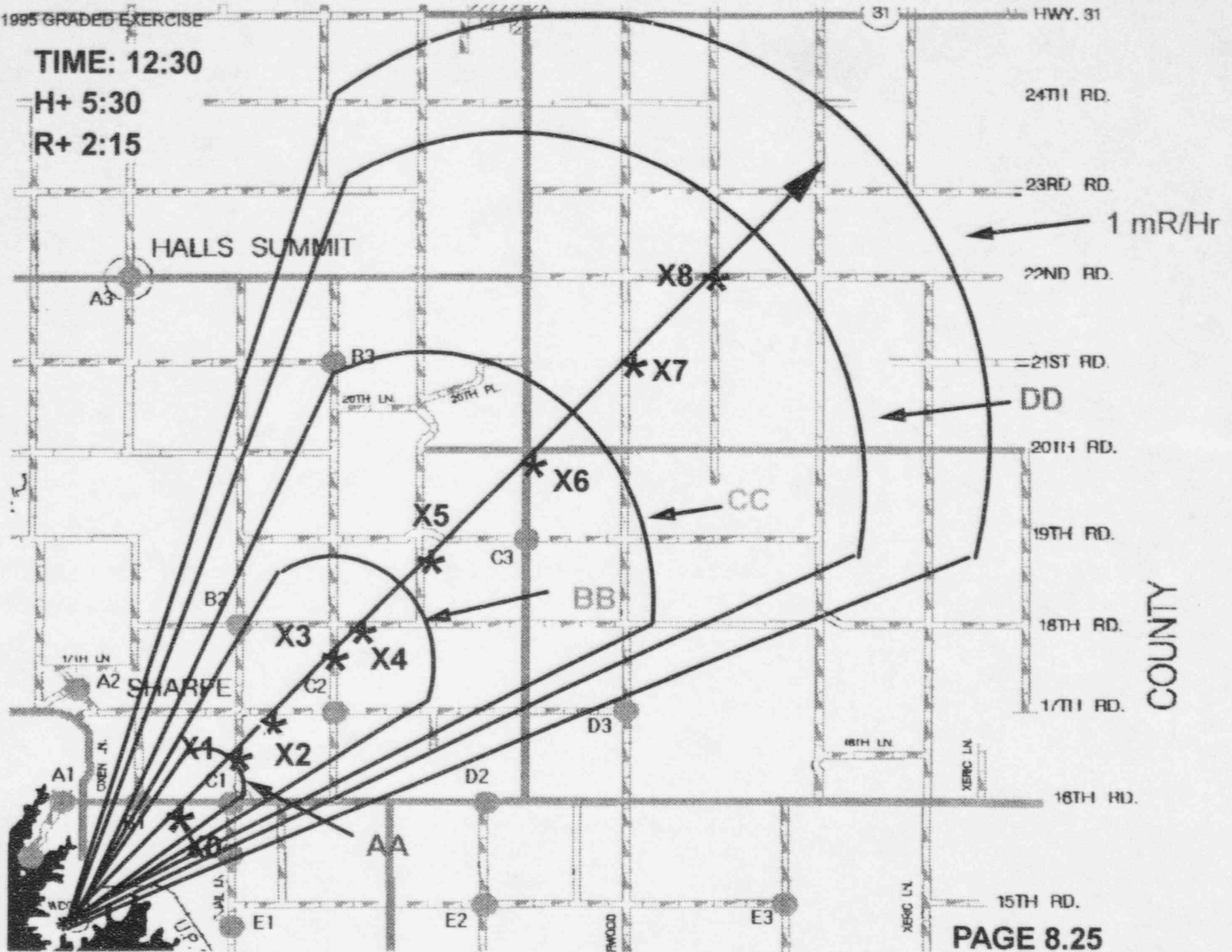
TIME	ACTUAL		12:30 PM			RELATIVE			5:30			POST RELEASE			2:15		
	DIST (MG)	X10	OPEN ROR	CLOSED ROR	BETA ROR	YEDR ROR	PIC DOSE RATE (mR/hr)	CPM	PART	CPM	PART	CPM	PART	CPM	PART	CPM	PART
EA3	0.75	2.94E-06	1.394	1.872	1.287	1.186	17.9	1.39E+02	1.11E-08	29761	1.24E-06	5.528					
HA3	1.85	8.33E-06	0.325	0.250	0.360	0.272	4.7	3.24E+01	2.57E-10	6695	2.89E-06	0.822					
ZH3	2.00	7.54E-06	0.294	0.226	0.271	0.248	3.8	2.92E+01	2.33E-10	8888	2.81E-06	0.744					
AA	2.59	5.57E-06	0.217	0.167	0.200	0.182	2.8	2.10E+01	1.77E-10	4477	1.93E-06	0.540					
AI	2.86	5.12E-06	0.415	0.319	0.363	0.347	5.3	4.14E+01	3.29E-10	8554	3.69E-06	1.050					
AI3	3.85	4.18E-06	0.339	0.260	0.313	0.283	4.3	3.30E+01	2.69E-10	6884	3.01E-06	0.857					
AI3	4.85	2.90E-06	0.243	0.187	0.224	0.203	3.1	2.42E+01	1.92E-10	3002	2.16E-06	0.614					
AI4	4.52	2.88E-06	0.206	0.161	0.193	0.175	2.7	2.08E+01	1.65E-10	4312	1.86E-06	0.529					
5 WH/25	6.00	2.18E-06	0.182	0.146	0.188	0.153	2.3	1.82E+01	1.43E-10	3788	1.62E-06	0.481					
AI5	5.88	1.83E-06	0.315	0.242	0.290	0.263	4.0	3.14E+01	2.49E-10	8486	2.80E-06	0.796					
AI8	6.38	1.37E-06	0.251	0.193	0.231	0.210	3.2	2.50E+01	1.99E-10	5189	2.23E-06	0.634					
CC	7.59	1.24E-06	0.227	0.175	0.209	0.190	2.8	2.26E+01	1.80E-10	4678	2.02E-06	0.574					
AI7	8.85	1.02E-06	0.387	0.305	0.366	0.332	5.1	3.95E+01	3.14E-10	8177	3.52E-06	1.003					
AI8	9.54	8.93E-07	0.377	0.290	0.348	0.315	4.8	3.78E+01	2.99E-10	7769	3.35E-06	0.953					
10 WH/100	10.86	8.28E-07	0.353	0.271	0.326	0.285	4.5	3.52E+01	2.86E-10	7373	3.14E-06	0.893					

1995 GRADED EXERCISE

TIME: 12:30

H+ 5:30

R+ 2:15



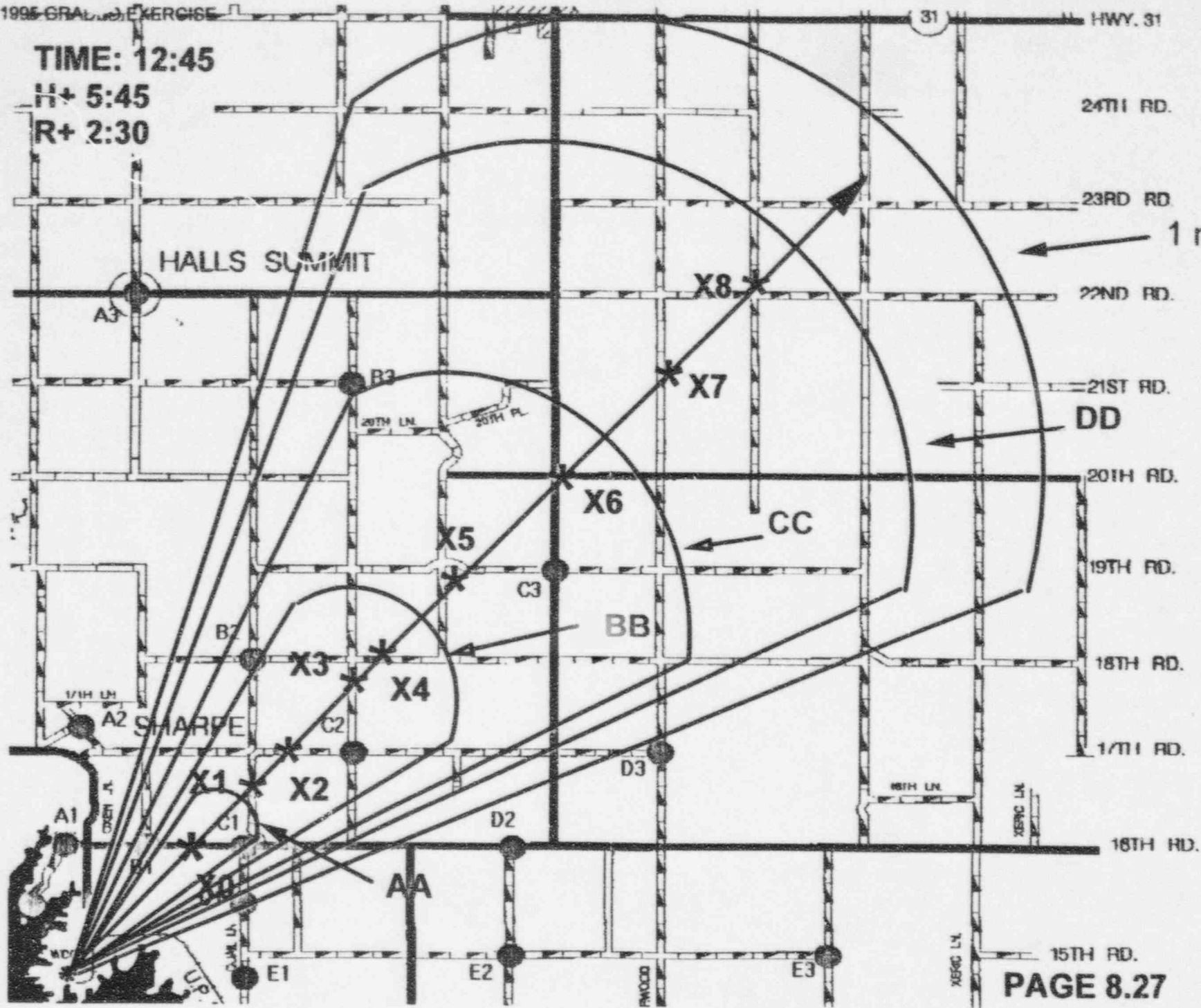
COUNTY

TIME:	ACTUAL		12-05 PM		RELATIVE		5-35		POST RELEASE		3-30	
	DIST RND	X/D	OPEN RNR	CLOSED RNR	BETA RNR	TEDE RNR	PIC 50SE RATE (m/ft/d)	PART CPM	PART eCl/cx	PART CPM	PART eCl/cx	1-2 CPM
EAAB	0.75	2.84E-06	0.772	0.594	0.713	0.848	0.9	7.78E+01	0.12E-10	19228	0.88E-08	1.954
EB	1.85	0.33E-06	0.440	0.330	0.406	0.308	5.6	4.28E+01	3.48E-10	9072	3.91E-08	1.113
Z MI	2.90	7.84E-06	0.398	0.300	0.368	0.333	5.1	3.97E+01	3.18E-10	8211	3.54E-08	1.008
AA	2.88	5.87E-06	0.294	0.278	0.272	0.240	3.6	2.93E+01	2.33E-10	6066	2.81E-08	0.744
X1	2.89	6.12E-06	0.200	0.153	0.164	0.167	2.6	1.95E+01	1.58E-10	4115	1.77E-08	0.655
X2	3.85	4.18E-06	0.163	0.125	0.150	0.136	2.1	1.62E+01	1.29E-10	3380	1.45E-08	0.412
X3	4.85	2.60E-06	0.235	0.181	0.217	0.197	3.0	2.34E+01	1.86E-10	4945	2.05E-08	0.555
X4	4.52	2.60E-06	0.203	0.156	0.187	0.169	2.6	2.02E+01	1.51E-10	4177	1.80E-08	0.515
5 MI / 88	5.99	2.18E-06	0.177	0.138	0.163	0.146	2.3	1.78E+01	1.40E-10	3842	1.57E-08	0.447
X5	8.88	1.83E-06	0.153	0.118	0.141	0.128	2.0	1.53E+01	1.21E-10	3157	1.38E-08	0.387
X6	8.99	1.37E-06	0.235	0.181	0.217	0.197	3.0	2.35E+01	1.87E-10	4856	2.05E-08	0.596
CC	7.58	1.40E-06	0.213	0.166	0.197	0.178	2.7	2.17E+01	1.69E-10	4395	1.89E-08	0.538
X7	8.65	1.82E-06	0.187	0.144	0.172	0.156	2.4	1.85E+01	1.48E-10	3849	1.66E-08	0.472
X8	8.54	0.82E-07	0.347	0.267	0.320	0.290	4.5	3.46E+01	2.75E-10	7153	3.65E-08	0.876
10 MI / 00	10.00	0.36E-07	0.325	0.258	0.308	0.272	4.2	3.24E+01	2.58E-10	6792	2.88E-08	0.822

TIME: 12:45

H+ 5:45

R+ 2:30



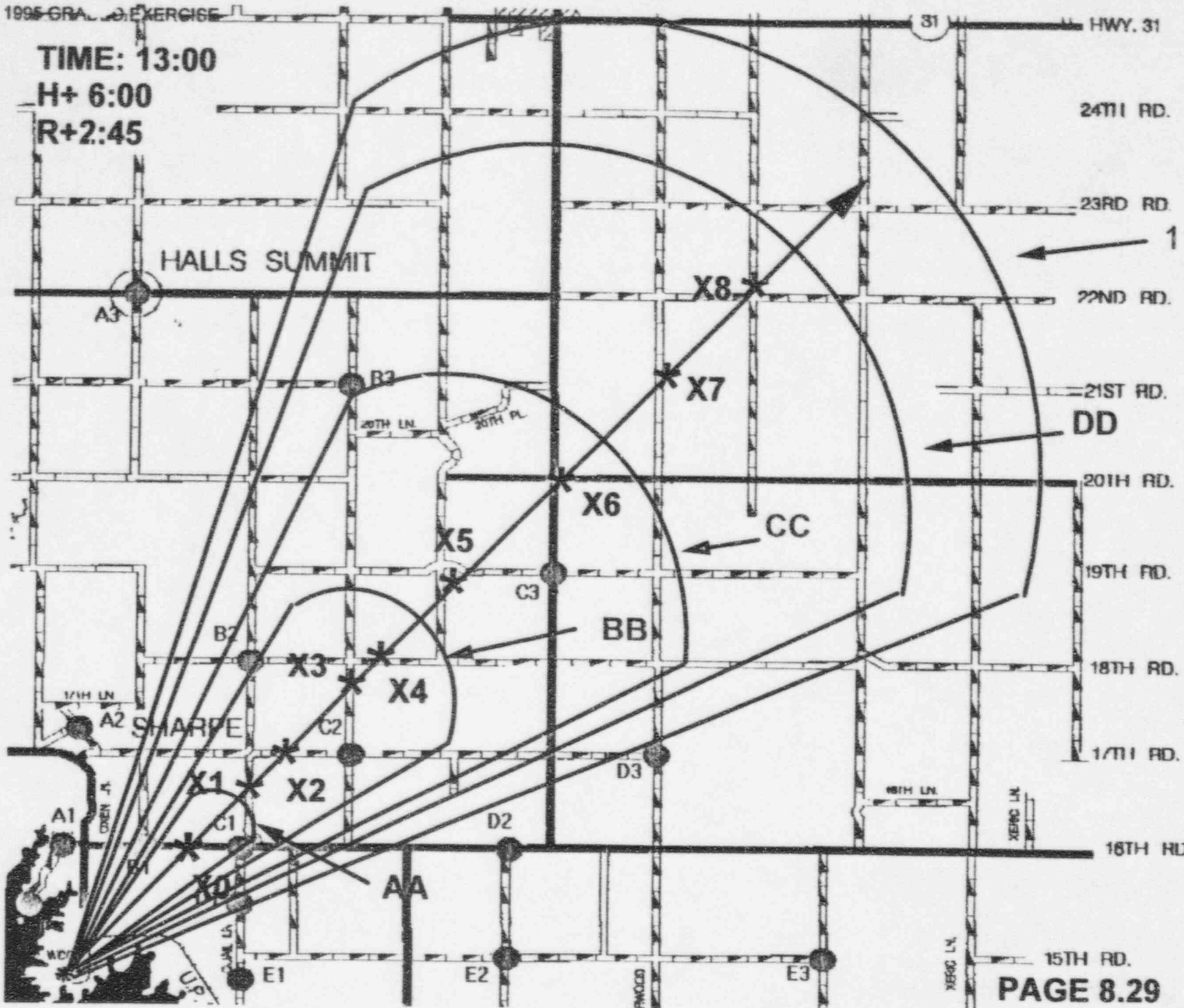
COUNTY

TIME	ACTUAL		1:00 PM		RELATIVE		8:00		POST RELEASE		2:00	
	DYST RMR	X/R	OPER RMR	CLOSED RMR	BETA RMR	TEDE RMR	PIC DOSE RATE (mR/hour)	PART CPM	PART eC/Sec	PART CPM	PART eC/Sec	I.2 CPM
EAB	0.75	2.04E-05	0.753	0.500	0.005	0.030	0.7	7.51E+01	0.57E+10	10530	0.70E+00	1.007
X0	1.05	0.32E-06	0.244	0.187	0.225	0.204	3.1	2.43E+01	1.93E+10	5025	2.17E+00	0.617
Z 001	2.00	7.54E-09	0.221	0.178	0.204	0.185	2.8	2.29E+01	1.75E+10	4549	1.95E+00	0.559
AA	2.50	5.57E-08	0.183	0.125	0.150	0.128	2.1	1.62E+01	1.28E+10	3360	1.45E+00	0.412
X1	2.00	5.17E-09	0.270	0.200	0.250	0.226	3.5	2.70E+01	2.14E+10	5576	2.40E+00	0.684
X2	3.00	4.10E-08	0.221	0.170	0.204	0.165	2.8	2.20E+01	1.75E+10	4552	1.95E+00	0.559
X3	4.00	2.90E-08	0.113	0.087	0.104	0.095	1.4	1.13E+01	8.95E+09	2331	1.00E+00	0.286
X4	4.52	2.50E-08	0.097	0.075	0.090	0.082	1.2	8.71E+00	7.73E+09	2009	8.66E+07	0.247
5 001/00	5.00	2.10E-08	0.095	0.080	0.078	0.071	1.1	8.47E+00	6.74E+09	1752	7.95E+07	0.219
X5	5.00	1.82E-08	0.148	0.114	0.137	0.124	1.9	1.48E+01	1.18E+10	3057	1.32E+00	0.375
X6	6.00	1.37E-08	0.115	0.088	0.108	0.098	1.5	1.14E+01	9.05E+09	2303	1.02E+00	0.290
CC	7.00	1.20E-08	0.104	0.080	0.098	0.087	1.3	1.03E+01	8.22E+09	2139	9.22E+07	0.262
X7	8.00	1.03E-08	0.175	0.135	0.162	0.147	2.2	1.75E+01	1.39E+10	3615	1.56E+00	0.444
X8	8.54	8.93E-07	0.163	0.128	0.151	0.137	2.1	1.63E+01	1.29E+10	3369	1.45E+00	0.413
10 001/00	10.00	8.35E-07	0.153	0.118	0.141	0.128	2.0	1.52E+01	1.21E+10	3154	1.30E+00	0.387

TIME: 13:00

H+ 6:00

R+2:45



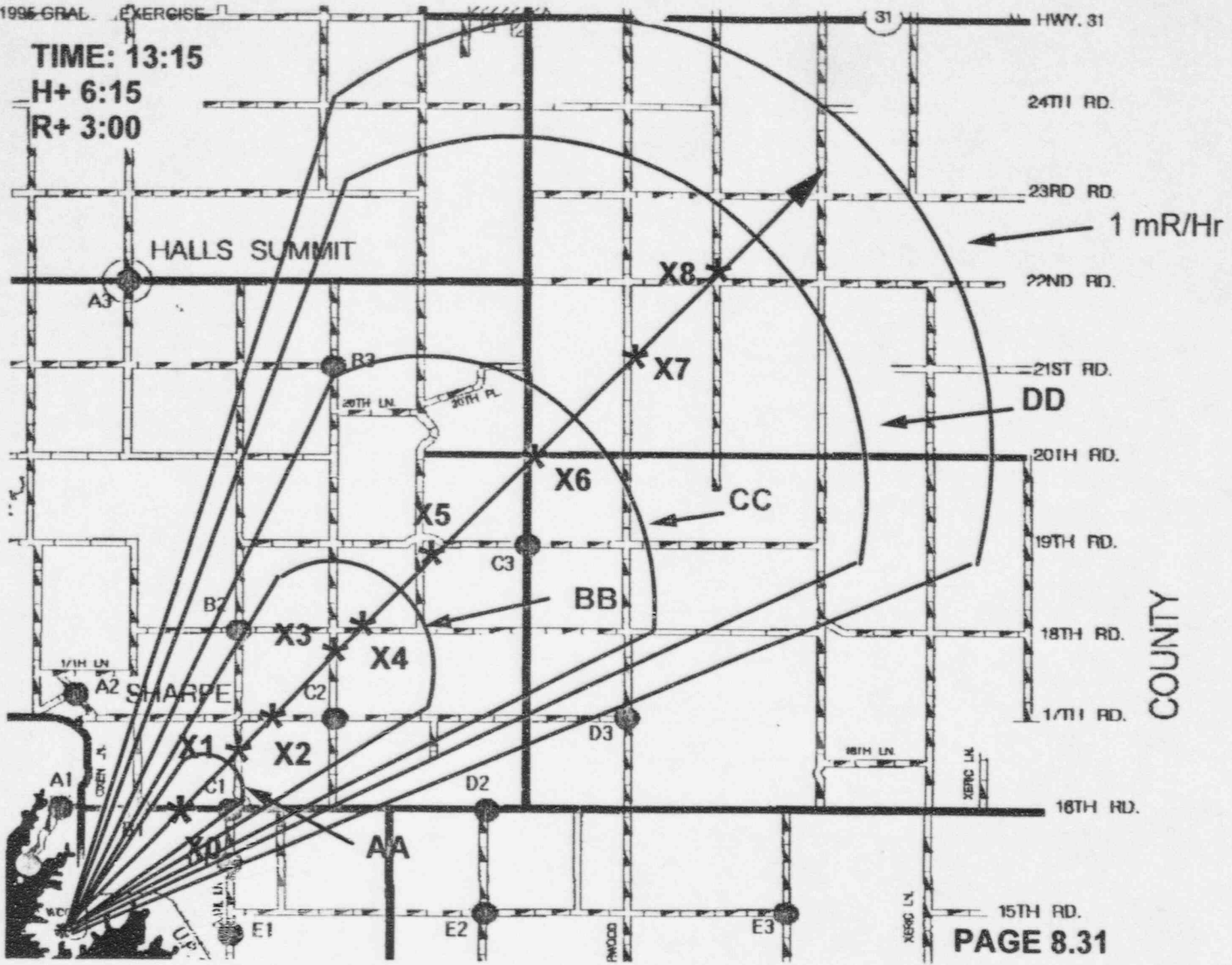
COUNTY

TIME	ACTUAL			RELATIVE			PIC HOUSE			POST RELEASE			
	DIST (MI)	X10	RHR	OPER RHR	CLOSED RHR	BETA RHR	TEDE RHR	RATE (m/s)	CPM	PART (C/Sec)	CPM	12 (C/Sec)	12 RHR
2:48	0.76	2.04E-06	0.725	0.958	0.878	0.807	0.807	9.3	2.23E+01	5.75E-10	14930	0.45E-06	1.830
2:50	1.05	0.33E-06	0.228	0.193	0.219	0.199	0.199	3.0	2.37E+01	1.89E-10	4903	2.11E-06	0.607
2:51	2.99	7.54E-06	0.215	0.168	0.159	0.166	0.166	2.9	2.15E+01	1.71E-10	4438	1.91E-06	0.545
2:52	2.59	5.57E-06	0.159	0.122	0.147	0.133	0.133	2.0	1.58E+01	1.29E-10	3278	1.41E-06	0.402
2:53	2.99	6.18E-06	0.150	0.115	0.138	0.125	0.125	1.9	1.49E+01	1.19E-10	3088	1.33E-06	0.379
2:54	4.05	2.90E-06	0.122	0.094	0.113	0.102	0.102	1.8	1.22E+01	9.70E-11	2827	1.09E-06	0.309
2:55	4.62	2.60E-06	0.153	0.118	0.141	0.129	0.129	2.0	1.53E+01	1.21E-10	3158	1.38E-06	0.388
2:56	5.60	2.18E-06	0.132	0.102	0.122	0.110	0.110	1.7	1.22E+01	1.05E-10	2723	1.17E-06	0.334
2:57	5.98	1.93E-06	0.115	0.098	0.108	0.098	0.098	1.5	1.19E+01	9.13E-11	2376	1.03E-06	0.281
2:58	6.39	1.77E-06	0.071	0.055	0.068	0.060	0.060	0.9	7.11E+00	5.68E-11	1471	8.34E-07	0.180
2:59	6.59	1.77E-06	0.111	0.085	0.102	0.093	0.093	1.4	1.11E+01	8.80E-11	2789	9.97E-07	0.281
3:00	7.58	1.54E-06	0.106	0.077	0.093	0.084	0.084	1.3	1.06E+01	7.97E-11	2872	9.93E-07	0.264
3:01	8.85	1.32E-06	0.095	0.058	0.079	0.071	0.071	1.1	8.51E+00	6.76E-11	1759	7.58E-07	0.216
3:02	9.54	0.93E-07	0.153	0.118	0.142	0.129	0.129	2.0	1.53E+01	1.22E-10	3165	1.38E-06	0.388
3:03	10.00	0.38E-07	0.144	0.111	0.133	0.120	0.120	1.8	1.43E+01	1.14E-10	2863	1.28E-06	0.364

TIME: 13:15

H+ 6:15

R+ 3:00

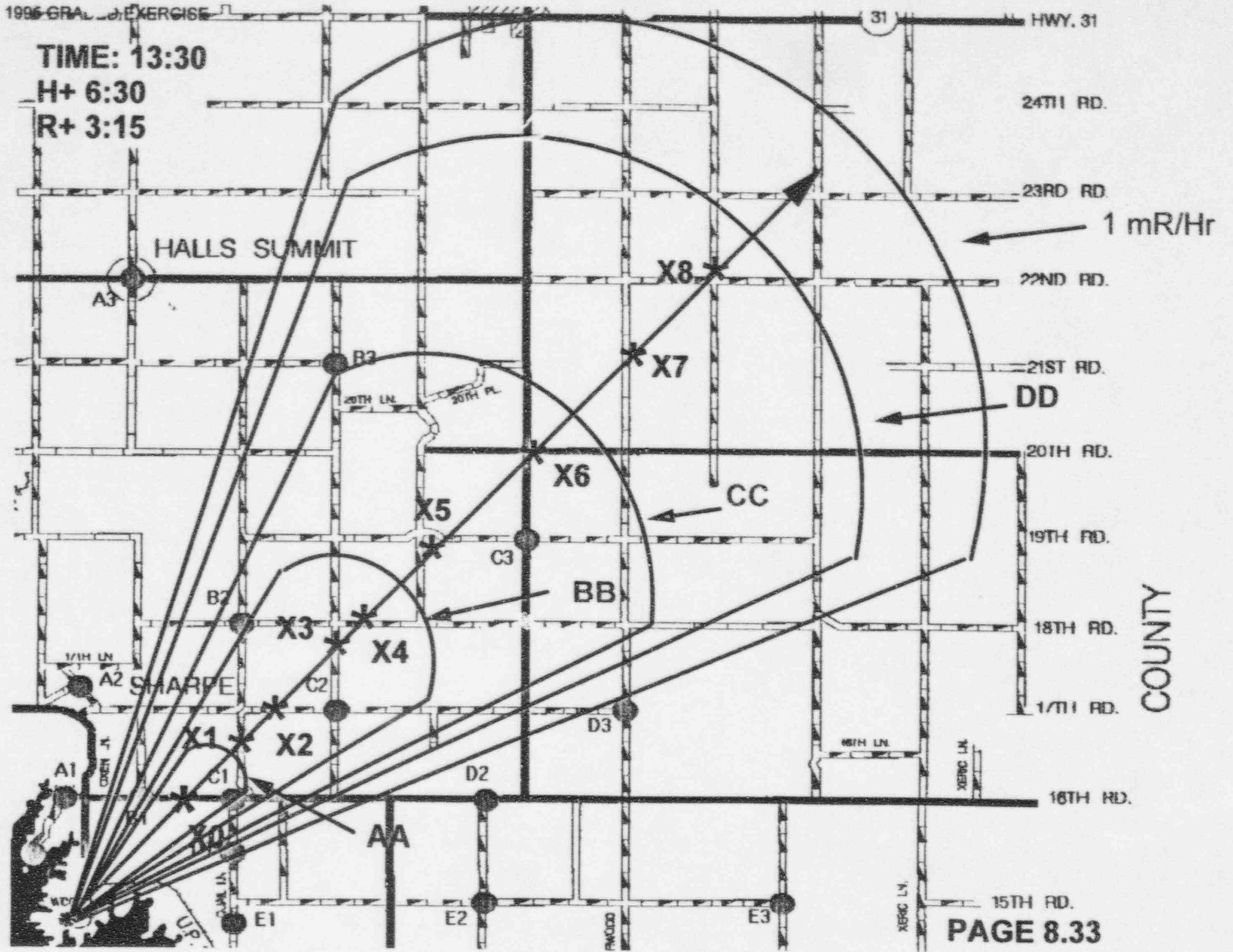


TIME	ACTUAL		1:38 PM		RELATIVE		6:30		POST RELEASE		3:15	
	DIST MM	X/D	OPEN RHR	CLOSED RHR	BETA RHR	TEBE RHR	FIF DCSE RATE [m/s] ²	PART CPM	PART uCi/cc	PART CPM	PART uCi/cc	12 CPM
EAB	6.76	2.84E-05	0.687	0.538	0.844	0.583	0.9	8.95E+01	5.53E-10	14381	8.20E-06	1.785
X6	1.86	8.33E-05	0.228	0.178	0.211	0.191	2.9	2.28E+01	1.81E-10	4720	2.03E-05	0.579
ZM3	2.98	7.54E-05	0.367	0.159	0.181	0.173	2.7	2.87E+01	1.84E-10	4273	1.89E-06	0.524
JAA	2.50	5.97E-05	0.153	0.118	0.141	0.128	2.0	1.53E+01	1.21E-10	3158	1.38E-06	0.387
X1	2.88	5.12E-05	0.148	0.112	0.135	0.122	1.9	1.48E+01	1.16E-10	3014	1.30E-06	0.370
X2	3.85	4.18E-05	0.119	0.092	0.110	0.100	1.5	1.19E+01	9.48E-11	2480	1.08E-06	0.302
X3	4.85	2.88E-05	0.085	0.065	0.078	0.071	1.1	8.48E+00	6.73E-11	1749	7.54E-07	0.215
X4	4.52	2.98E-05	0.073	0.056	0.059	0.061	0.9	7.29E+00	5.80E-11	1508	3.50E-07	0.185
5 MM / 8B	5.38	2.18E-05	0.094	0.049	0.059	0.053	0.8	6.39E+00	5.08E-11	1319	5.87E-07	0.161
X5	5.88	1.83E-05	0.097	0.074	0.089	0.081	1.2	9.64E+00	7.88E-11	1993	9.59E-07	0.245
X8	6.95	1.37E-05	0.053	0.041	0.049	0.045	0.7	5.32E+00	4.23E-11	1101	4.75E-07	0.135
CC	7.59	1.24E-05	0.048	0.037	0.045	0.040	0.6	4.87E+00	3.83E-11	887	4.38E-07	0.122
X7	8.85	1.02E-05	0.063	0.064	0.076	0.069	1.1	8.24E+00	6.55E-11	1794	7.35E-07	0.209
X8	9.54	9.92E-07	0.975	0.057	0.059	0.062	1.0	7.45E+00	5.97E-11	1540	8.68E-07	0.189
10 MM / 8B	10.66	8.38E-07	0.878	0.054	0.055	0.059	0.9	6.97E+00	5.56E-11	1662	6.27E-07	0.177

TIME: 13:30

H+ 6:30

R+ 3:15



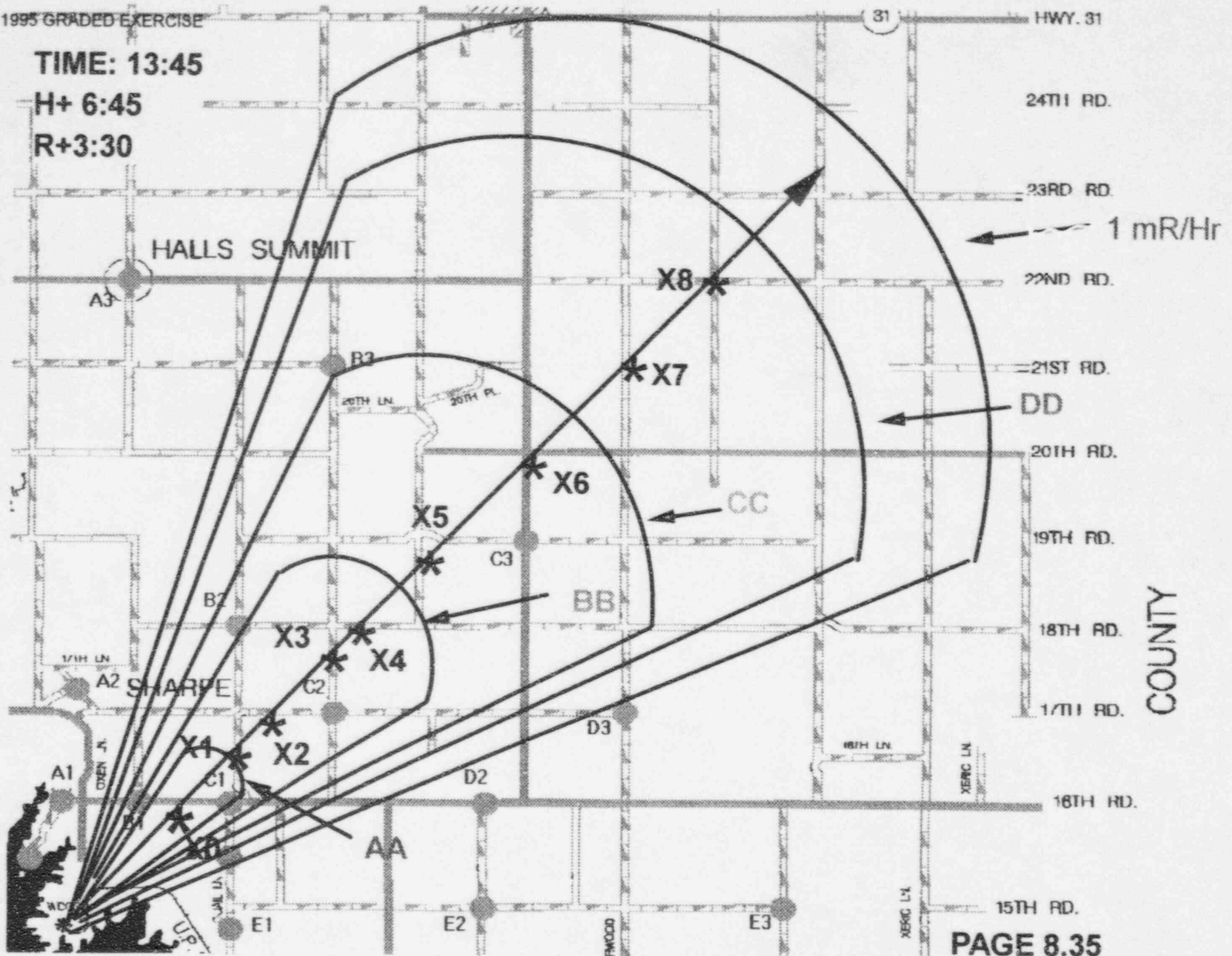
TIME	ACTUAL			RELATIVE			PIC-BOSE			POST RELEASE			
	DIST MGD	KID	RNR	OPEN RNR	CLOSED RNR	BETA RNR	TEDE RNR	RATE bed/bed	PART CPM	PART eC/sec	1-2 CPM	1-2 eC/sec	1-2 RNR
5A/B	0.75	2.84E-05	0.344	0.265	0.316	0.288	0.288	4.4	3.43E+01	2.73E-10	7698	3.98E-06	0.871
7B	1.85	8.33E-05	0.720	0.168	0.203	0.184	0.184	2.8	2.19E+01	1.74E-10	4538	1.98E-06	2.557
7B/H	2.06	7.54E-05	0.199	0.153	0.184	0.187	0.187	2.8	1.98E+01	1.58E-10	4187	1.71E-06	0.584
8A	2.58	5.57E-05	0.147	0.113	0.138	0.122	0.122	1.9	1.47E+01	1.17E-10	3034	1.31E-06	0.372
X1	2.88	5.12E-05	0.141	0.108	0.130	0.110	0.110	1.8	1.40E+01	1.12E-10	2901	1.25E-06	0.356
X2	3.89	4.18E-05	0.115	0.088	0.108	0.096	0.096	1.5	1.15E+01	8.11E-11	2389	1.02E-06	0.291
X3	4.85	2.96E-05	0.083	0.054	0.078	0.058	0.058	1.1	8.25E+00	5.58E-11	1707	7.38E-07	0.208
X4	4.52	2.58E-05	0.071	0.055	0.068	0.050	0.050	0.9	7.11E+00	5.69E-11	1471	6.34E-07	0.181
5A/H/8B	5.69	2.18E-05	0.062	0.048	0.057	0.052	0.052	0.8	6.28E+00	4.93E-11	1293	5.52E-07	0.157
5B	5.85	1.53E-05	0.054	0.041	0.043	0.045	0.045	0.7	5.34E+00	4.24E-11	1104	4.78E-07	0.135
6B	8.99	1.37E-05	0.072	0.056	0.067	0.061	0.061	0.9	7.21E+00	5.74E-11	1492	5.43E-07	0.183
CC	7.50	1.24E-05	0.085	0.059	0.068	0.055	0.055	0.8	6.53E+00	5.19E-11	1348	5.87E-07	0.166
X7	8.05	1.82E-05	0.040	0.031	0.037	0.033	0.033	0.5	3.98E+00	3.15E-11	820	3.53E-07	0.101
X8	8.94	9.93E-07	0.072	0.056	0.067	0.061	0.061	0.9	7.21E+00	5.74E-11	1492	5.43E-07	0.183
10 A/H/9D	18.08	5.36E-07	0.068	0.052	0.063	0.057	0.057	0.8	6.79E+00	5.37E-11	1387	6.92E-07	0.171

1995 GRADED EXERCISE

TIME: 13:45

H+ 6:45

R+3:30



TIME	ACTUAL		2:00 PM		RELATIVE		7:00		POST RELEASE		3:45	
	DIST MFT	X/Y	OPEN RMR	CLOSED RMR	SETA RMR	TEDE RMR	PIC BOSE RATE ($\mu\text{Ci}/\text{hr}$)	PART CFR	PART uCi/cc	PART CFR	PART uCi/cc	1-2 CFR
FAB	0.75	2.64E-05	0.053	0.059	0.780	0.714	10.9	0.51E+01	0.77E+00	17595	7.50E-08	2.159
X0	1.85	0.33E-08	0.109	0.094	0.100	0.031	1.4	1.08E+01	0.81E+11	2229	9.85E-07	0.275
Z MR	2.00	7.54E-08	0.000	0.070	0.091	0.002	1.3	2.00E+00	7.70E+11	2827	0.74E-07	0.249
RA	2.50	0.57E-06	0.073	0.055	0.067	0.061	0.9	7.24E+00	5.70E+11	1467	0.45E-07	0.194
X1	2.60	5.15E-08	0.135	0.104	0.125	0.113	1.7	1.35E+01	1.07E+10	2780	1.20E-06	0.342
X2	3.00	4.18E-06	0.110	0.085	0.102	0.092	1.4	1.10E+01	0.32E+11	2277	0.81E-07	0.270
X3	4.05	2.50E-06	0.080	0.061	0.074	0.067	1.0	7.94E+00	0.32E+11	1643	7.08E-07	0.202
Z	4.52	2.50E-06	0.060	0.053	0.053	0.057	0.8	6.85E+00	5.45E+11	1417	0.11E-07	0.174
5 MR / 00	0.00	2.18E-08	0.000	0.040	0.055	0.050	0.8	5.97E+00	4.75E+11	1229	0.37E-07	0.102
X0	0.00	1.83E-06	0.052	0.040	0.046	0.044	0.7	5.21E+00	4.14E+11	1077	0.69E-07	0.132
X8	0.00	1.37E-08	0.040	0.031	0.037	0.034	0.5	4.00E+00	3.18E+11	820	3.50E-07	0.101
CC	7.50	1.24E-06	0.030	0.020	0.032	0.030	0.5	3.03E+00	2.80E+11	740	2.27E-07	0.092
X7	0.00	1.02E-08	0.054	0.041	0.050	0.046	0.7	5.37E+00	4.27E+11	1111	4.70E-07	0.130
X8	0.00	0.53E-07	0.035	0.027	0.032	0.029	0.4	3.47E+00	2.70E+11	710	3.00E-07	0.080
19 MR / 00	10.00	0.30E-07	0.033	0.025	0.029	0.027	0.4	3.25E+00	2.60E+11	672	2.90E-07	0.082

TIME: 14:00

H+ 7:00

R+ 3:45

24TH RD.

23RD RD.

1 mR/Hr

22ND RD.

HALLS SUMMIT

A3

X8 *

21ST RD.

X7 *

DD

20TH LN.

20TH PL.

20TH RD.

X6 *

CC

X5 *

19TH RD.

C3

BB

18TH RD.

X3 *

X4 *

B2

C2

17TH RD.

SHARPE

X1 *

X2 *

D3

18TH LN.

XERC LN.

18TH RD.

COUNTY

17TH LN.

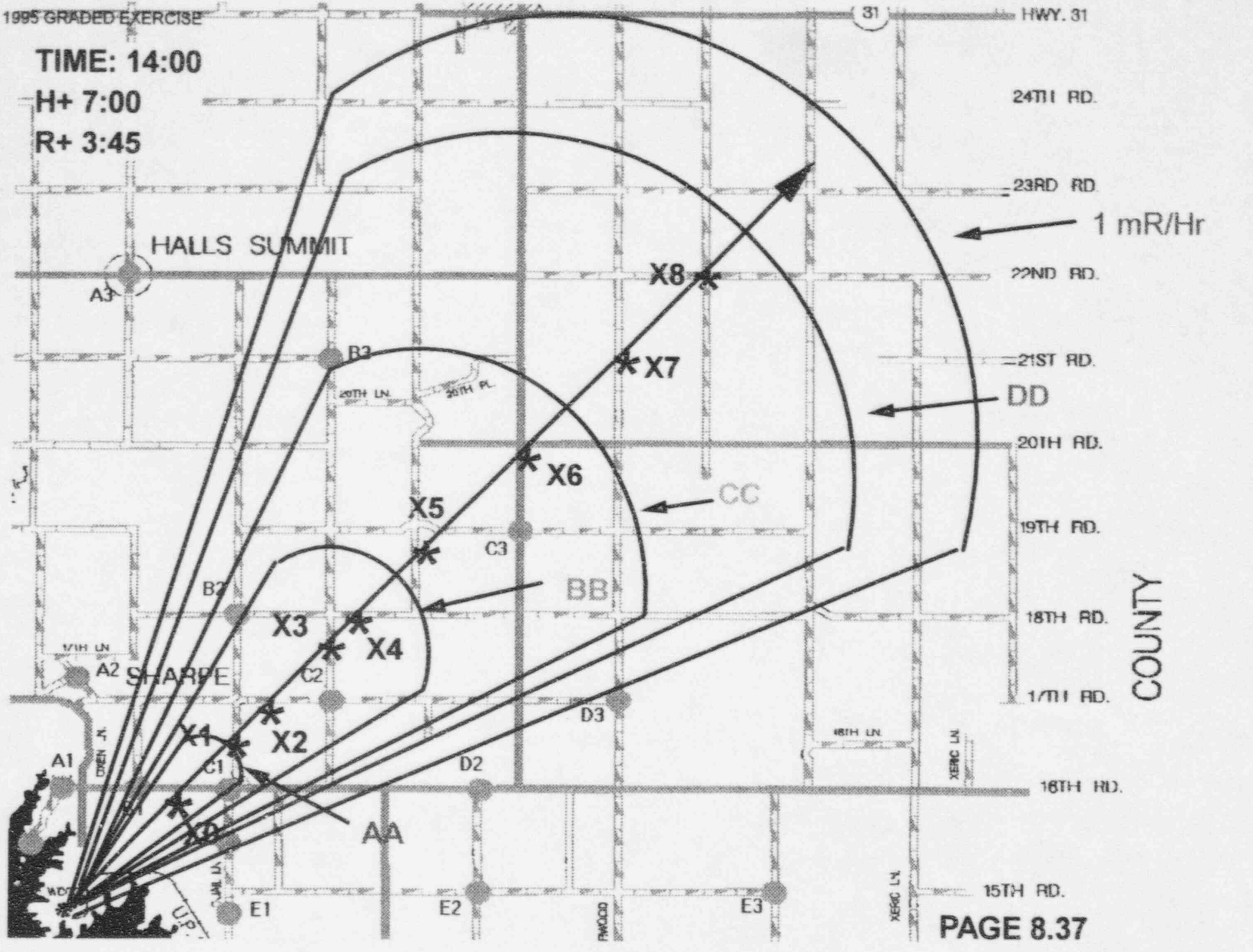
16TH LN.

D2

AA

XERC LN.

15TH RD.

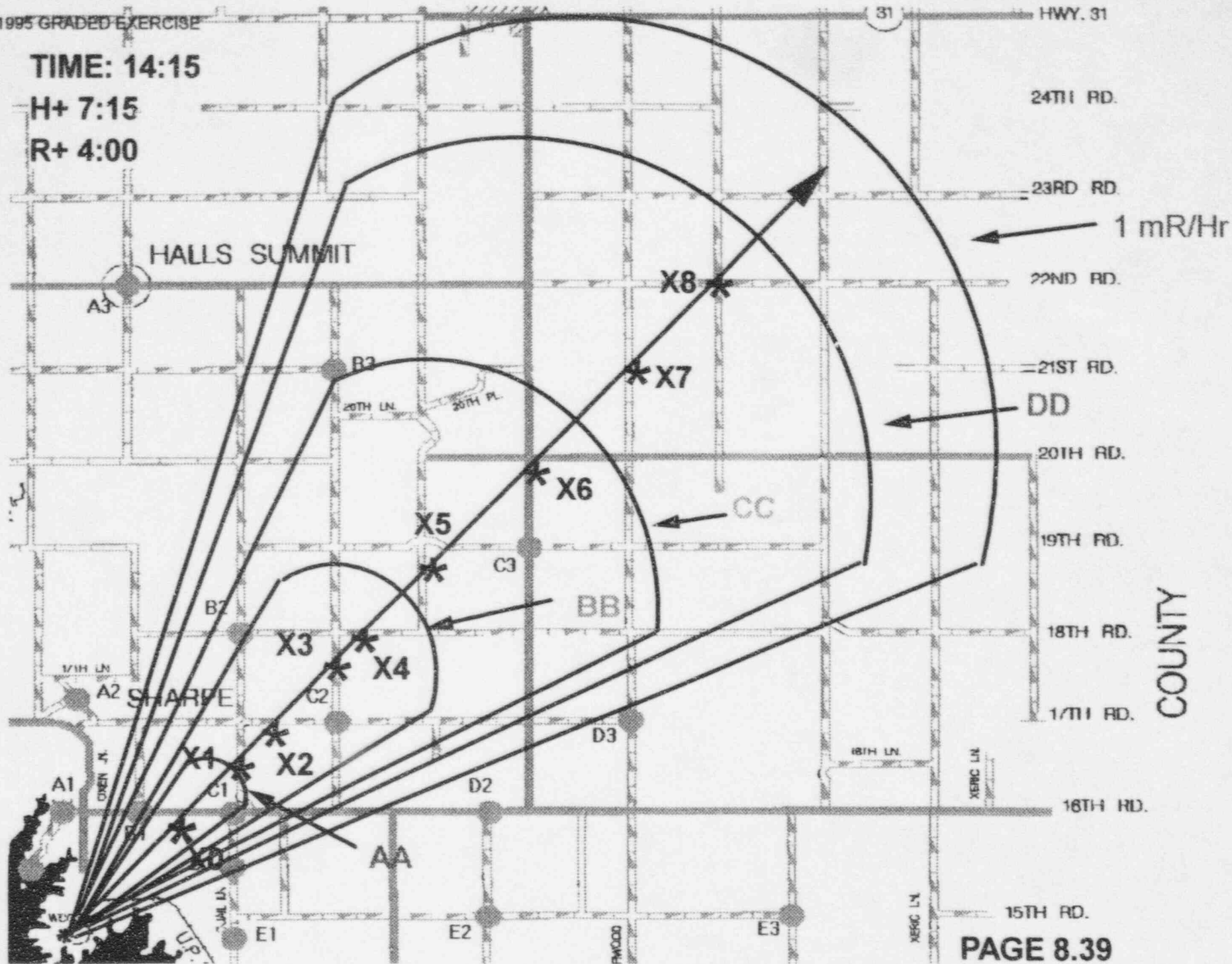


TIME	ACTUAL		2:15 PM				RELATIVE		7:15		POST RELEASE		4:00	
	DIST Z60	X10	OPEN RMR	CLOSED RMR	BETA RMR	TEDE RMR	PIC DOSE RATE (mR/hr)	PART CPM	PART eC/Sec	PART CPM	PART eC/Sec	1:2 CPM	1:2 eC/Sec	1:2 RMR
Z6B	0.76	2.64E-05	0.238	0.845	0.774	0.781	16.7	0.38E+01	0.09E-10	17260	7.49E-08	2.121		
X0	1.85	8.33E-06	0.269	0.267	0.248	0.225	3.5	2.08E+01	2.13E-10	9552	2.39E-06	0.681		
Z6H	2.06	7.94E-06	0.264	0.187	0.225	0.284	3.1	2.43E+01	1.92E-10	6025	2.17E-06	0.617		
AA	2.58	5.37E-06	0.180	0.138	0.168	0.151	2.3	1.79E+01	1.43E-10	3712	1.69E-06	0.456		
X1	2.08	5.12E-06	0.087	0.051	0.052	0.056	0.9	6.95E+00	5.79E-11	1376	5.93E-07	0.169		
X2	3.09	4.18E-06	0.054	0.042	0.050	0.048	0.7	5.43E+00	4.32E-11	1124	4.94E-07	0.138		
X3	4.85	2.99E-06	0.077	0.059	0.071	0.064	1.0	7.64E+00	6.07E-11	1580	6.81E-07	0.194		
X4	4.52	2.58E-06	0.068	0.051	0.061	0.055	0.8	6.58E+00	5.24E-11	1362	5.87E-07	0.167		
S NH / 9B	6.86	2.19E-06	0.058	0.044	0.053	0.048	0.7	5.74E+00	4.57E-11	1188	5.12E-07	0.146		
X5	5.88	1.83E-06	0.050	0.039	0.046	0.042	0.6	5.01E+00	3.99E-11	1037	4.47E-07	0.127		
X6	6.59	1.37E-06	0.039	0.030	0.036	0.033	0.5	3.90E+00	3.10E-11	866	3.48E-07	0.099		
CC	7.50	1.24E-06	0.035	0.027	0.033	0.030	0.5	3.53E+00	2.81E-11	738	3.19E-07	0.090		
X7	6.05	1.02E-06	0.030	0.023	0.028	0.025	0.4	2.97E+00	2.37E-11	615	2.65E-07	0.076		
X8	6.54	8.93E-07	0.047	0.036	0.044	0.039	0.6	4.70E+00	3.74E-11	973	4.19E-07	0.119		
10 MR / 00	18.89	6.38E-07	0.044	0.034	0.041	0.037	0.6	4.46E+00	3.59E-11	919	3.92E-07	0.112		

TIME: 14:15

H+ 7:15

R+ 4:00

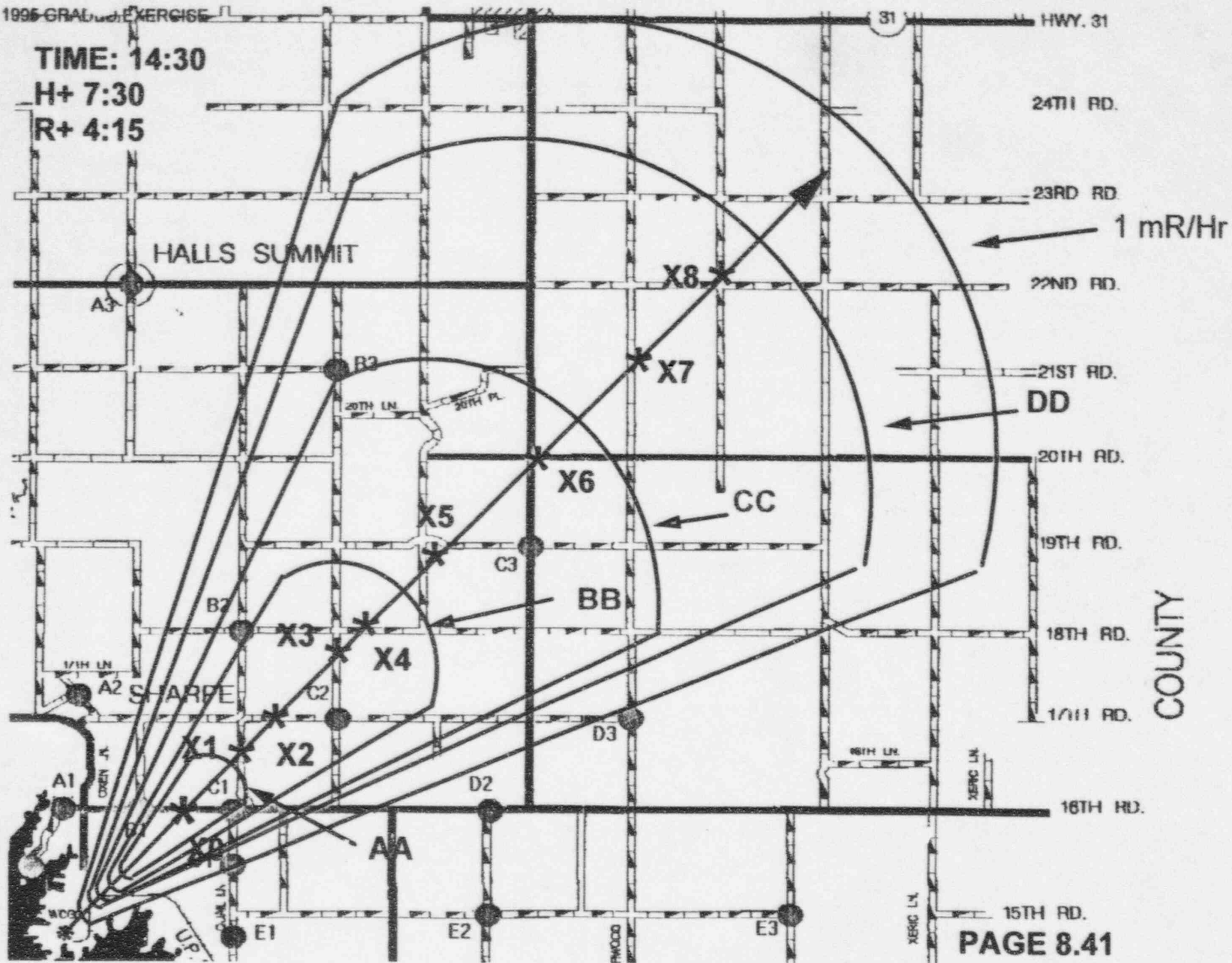


TRAC	ACTUAL		RELATIVE			7.30		POST RELEASE		4.15	
	DIST PMI	XCD	OPEN RHR	CLOSED RHR	BETA RHR	TEDE RHR	PIC BASE mu/dm3	PART CPM	PART uCi/cc	1.2 CPM	1.2 uCi/cc
EA	0.75	2.84E-05	0.899	0.858	0.658	0.000	0.0	0.89E+00	0.89E+00	0	0.89E+00
EA	1.25	0.33E-08	0.265	0.203	0.244	0.227	3.4	2.64E+01	2.10E+10	5455	2.35E+06
EA	2.80	7.84E-08	0.239	0.184	0.221	0.208	3.1	2.39E+01	1.86E+10	4938	2.13E+06
EA	2.50	5.57E-08	0.177	0.136	0.163	0.148	2.3	1.70E+01	1.40E+10	3648	1.57E+06
EA	3.20	5.12E-08	0.165	0.127	0.153	0.136	2.1	1.65E+01	1.31E+10	3412	1.47E+06
EA	4.00	4.19E-08	0.135	0.104	0.125	0.113	1.7	1.35E+01	1.07E+10	2786	1.20E+06
EA	4.52	2.50E-08	0.038	0.029	0.035	0.032	0.5	3.77E+00	3.00E+11	780	3.38E+07
EA	4.52	2.50E-08	0.033	0.025	0.030	0.027	0.4	3.75E+01	2.58E+11	672	2.89E+07
EA	5.00	2.18E-08	0.028	0.022	0.028	0.024	0.4	2.83E+00	2.39E+11	528	2.53E+07
EA	5.00	1.83E-08	0.048	0.037	0.045	0.040	0.6	4.83E+00	3.83E+11	997	4.39E+07
EA	6.00	1.37E-08	0.038	0.028	0.035	0.031	0.5	3.75E+00	2.98E+11	776	3.39E+07
EA	7.50	1.24E-08	0.034	0.026	0.031	0.028	0.4	3.40E+00	2.79E+11	703	3.03E+07
EA	8.85	1.02E-08	0.029	0.022	0.027	0.024	0.4	2.90E+00	2.31E+11	608	2.59E+07
EA	8.54	9.93E-07	0.026	0.020	0.024	0.022	0.3	2.60E+00	2.07E+11	539	2.32E+07
EA	16.00	8.36E-07	0.024	0.018	0.023	0.020	0.3	2.44E+00	1.94E+11	584	2.17E+07

TIME: 14:30

H+ 7:30

R+ 4:15



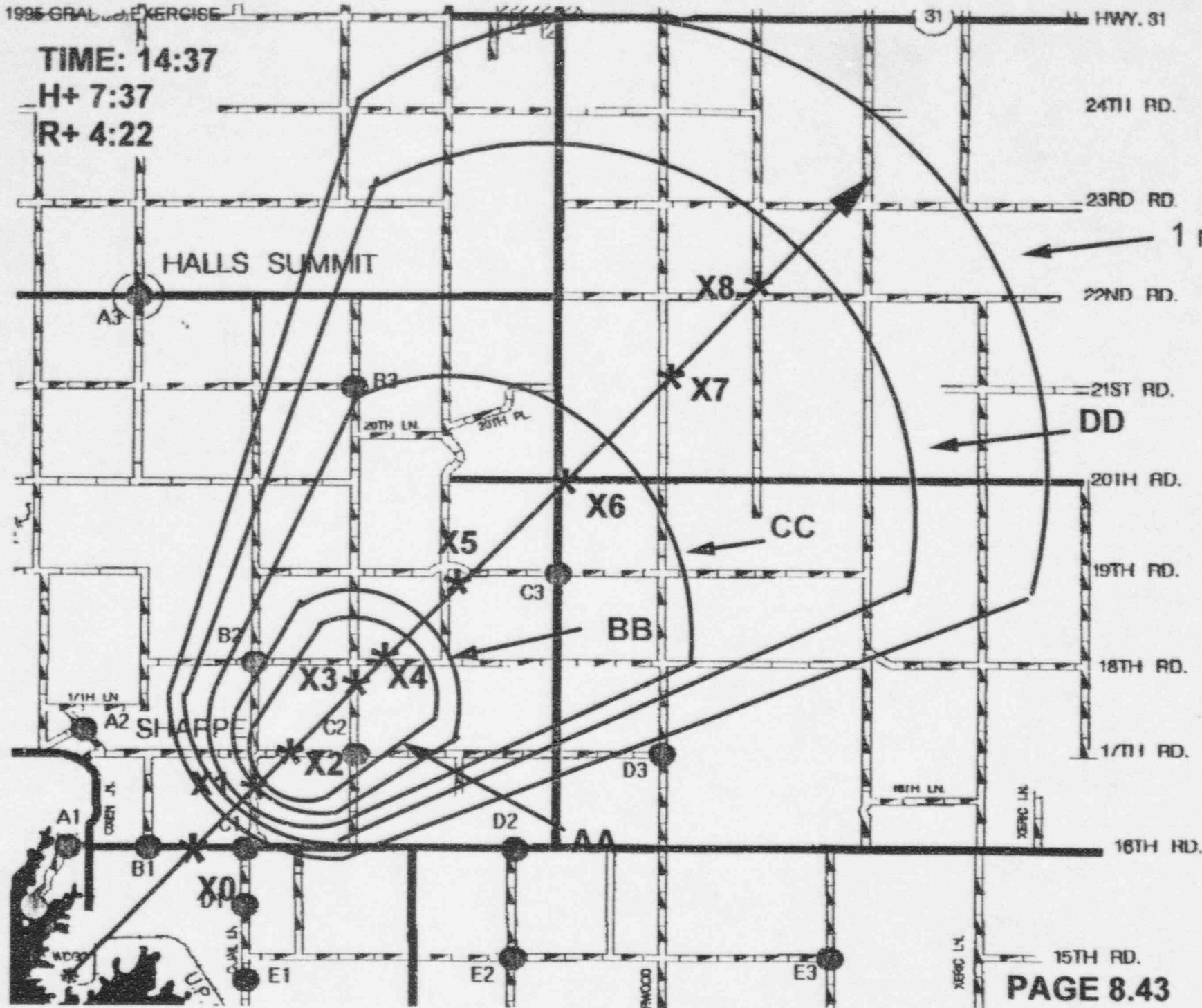
COUNTY

TIME	ACTUAL		2:37 PM		RELATIVE		7:37		POST RELEASE		0:22	
	DIST	X/D	OPEN	CLOSED	BETA	TEDE	RATZ	PART	PART	CPM	uCi/cc	I:2
CAB	0.75	2.84E-05	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X9	1.85	0.32E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
2 MI	2.09	7.54E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
AA	2.56	5.57E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X1	2.88	5.12E-06	0.103	0.125	0.150	0.136	2.1	1.62E+01	1.29E+00	3353	1.45E-05	0.411
X2	3.09	4.19E-06	0.133	0.102	0.123	0.111	1.7	1.32E+01	1.05E+00	2737	1.19E-06	0.336
X3	4.05	2.59E-06	0.094	0.072	0.097	0.078	1.2	9.34E+00	7.43E+00	1933	8.33E-07	0.237
X4	4.52	2.59E-06	0.081	0.052	0.075	0.068	1.0	8.09E+00	6.41E+00	1668	7.19E-07	0.204
5 MI / 85	5.06	2.19E-06	0.078	0.054	0.065	0.059	0.9	7.02E+00	5.59E+00	1453	8.28E-07	0.178
X5	5.88	1.83E-06	0.024	0.018	0.022	0.020	0.3	2.39E+00	1.85E+00	482	2.12E-07	0.060
X6	6.59	1.37E-06	0.026	0.026	0.033	0.030	0.5	3.61E+00	2.87E+00	748	3.22E-07	0.092
CC	7.58	1.24E-06	0.033	0.025	0.030	0.027	0.6	3.27E+00	2.69E+00	876	2.91E-07	0.083
X7	8.09	1.02E-06	0.028	0.022	0.026	0.023	0.4	2.79E+00	2.22E+00	578	2.49E-07	0.071
X8	9.54	8.93E-07	0.025	0.020	0.024	0.021	0.3	2.54E+00	2.02E+00	526	2.27E-07	0.064
10 MI / 100	10.09	8.39E-07	0.024	0.018	0.022	0.020	0.3	2.39E+00	1.89E+00	492	2.12E-07	0.060

TIME: 14:37

H+ 7:37

R+ 4:22

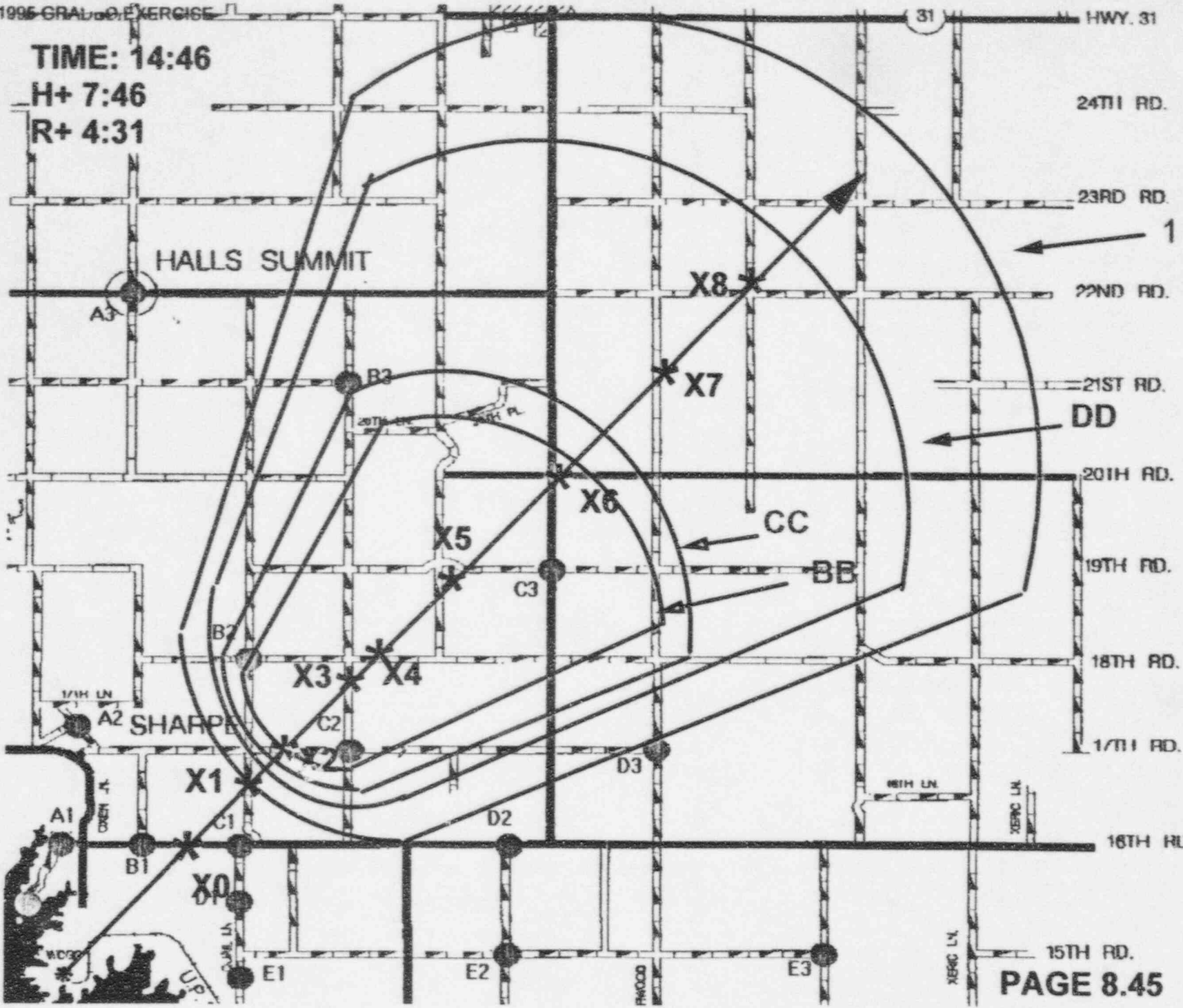


TIME	ACTUAL		RELATIVE				7-96		POST RELEASE			
	DIST MBS	X/B	OPEN RMR	CLOSED RMR	BETA RMR	TEDE RMR	MIC DOSE RATE (estimated)	PART CPM	PART uClits	1-2 CPM	1-2 uClits	1-2 RMR
2A	0.75	2.04E-05	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
2B	1.85	0.23E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
2C	2.00	7.54E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
2A	2.50	0.57E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
21	2.80	0.12E-05	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
22	3.00	0.70E-06	0.133	0.102	0.123	0.111	1.7	1.32E+01	1.05E+00	2737	1.10E+00	0.130
23	4.05	2.00E-06	0.004	0.072	0.007	0.070	1.2	0.34E+00	7.43E+11	1933	8.30E+07	0.237
24	4.52	2.00E-06	0.001	0.002	0.075	0.052	1.0	0.00E+00	0.41E+11	1688	7.10E+07	0.204
25	5.00	2.10E-06	0.070	0.004	0.005	0.050	0.9	7.02E+00	0.90E+11	1452	0.20E+07	0.170
26	5.00	1.03E-06	0.024	0.018	0.022	0.020	0.3	2.30E+00	1.00E+11	482	2.12E+07	0.050
27	6.00	1.37E-06	0.026	0.028	0.033	0.030	0.5	3.01E+00	2.07E+11	746	3.22E+07	0.052
28	7.50	1.24E-06	0.033	0.025	0.030	0.027	0.4	3.27E+00	2.00E+11	875	0.01E+07	0.003
29	8.00	1.02E-06	0.020	0.022	0.026	0.022	0.4	2.70E+00	2.22E+11	570	2.00E+07	0.071
30	8.54	0.93E-07	0.025	0.020	0.024	0.021	0.3	2.54E+00	2.00E+11	525	2.22E+07	0.064
31	10.00	0.30E-07	0.024	0.018	0.022	0.020	0.3	2.30E+00	1.00E+11	492	2.12E+07	0.050

TIME: 14:46

H+ 7:46

R+ 4:31



COUNTY

TIME	ACTUAL		2:52 PM		RELATIVE		7:52		POST RELEASE		4:37	
	DUST GMS	X10	OPEN RRR	CLOSED RRR	BETA RRR	TEDE RRR	FIC DOSE RATE (mR/hr)	PART CPM	PART eC/Sec	PART CPM	1:2 eC/Sec	1:2 RRR
2:48	2.75	2.84E-05	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X0	1.85	8.33E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
2:51	2.00	7.54E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
AA	2.58	5.37E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X1	2.68	5.12E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X2	2.68	4.18E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X3	4.05	2.50E-06	0.052	0.071	0.085	0.077	1.2	9.18E+00	7.30E+11	1859	8.19E-07	0.233
X4	4.52	2.50E-06	0.061	0.062	0.075	0.058	1.0	8.06E+00	8.41E+11	1666	7.18E-07	0.204
5 MI / 08	0.99	2.18E-06	0.078	0.054	0.085	0.056	0.9	7.87E+00	5.59E+11	1453	8.28E-07	0.178
X5	0.88	1.83E-06	0.024	0.018	0.022	0.020	0.3	2.38E+00	1.89E+11	452	2.17E-07	0.060
X6	0.99	1.37E-06	0.008	0.028	0.033	0.020	0.5	3.61E+00	2.87E+11	746	3.27E-07	0.087
CC	7.58	1.24E-06	0.033	0.025	0.036	0.027	0.6	3.27E+00	2.89E+11	678	2.91E-07	0.083
X7	0.05	1.07E-06	0.028	0.022	0.026	0.023	0.4	2.79E+00	2.27E+11	578	2.49E-07	0.071
X8	0.54	8.93E-07	0.075	0.020	0.024	0.021	0.3	2.54E+00	2.02E+11	526	2.27E-07	0.064
10 MI / 08	19.08	8.38E-07	0.024	0.018	0.022	0.028	0.3	2.38E+00	1.89E+11	482	2.17E-07	0.060

1995 GRADED EXERCISE

TIME: 14:52

H+ 7:52

R+ 4:37

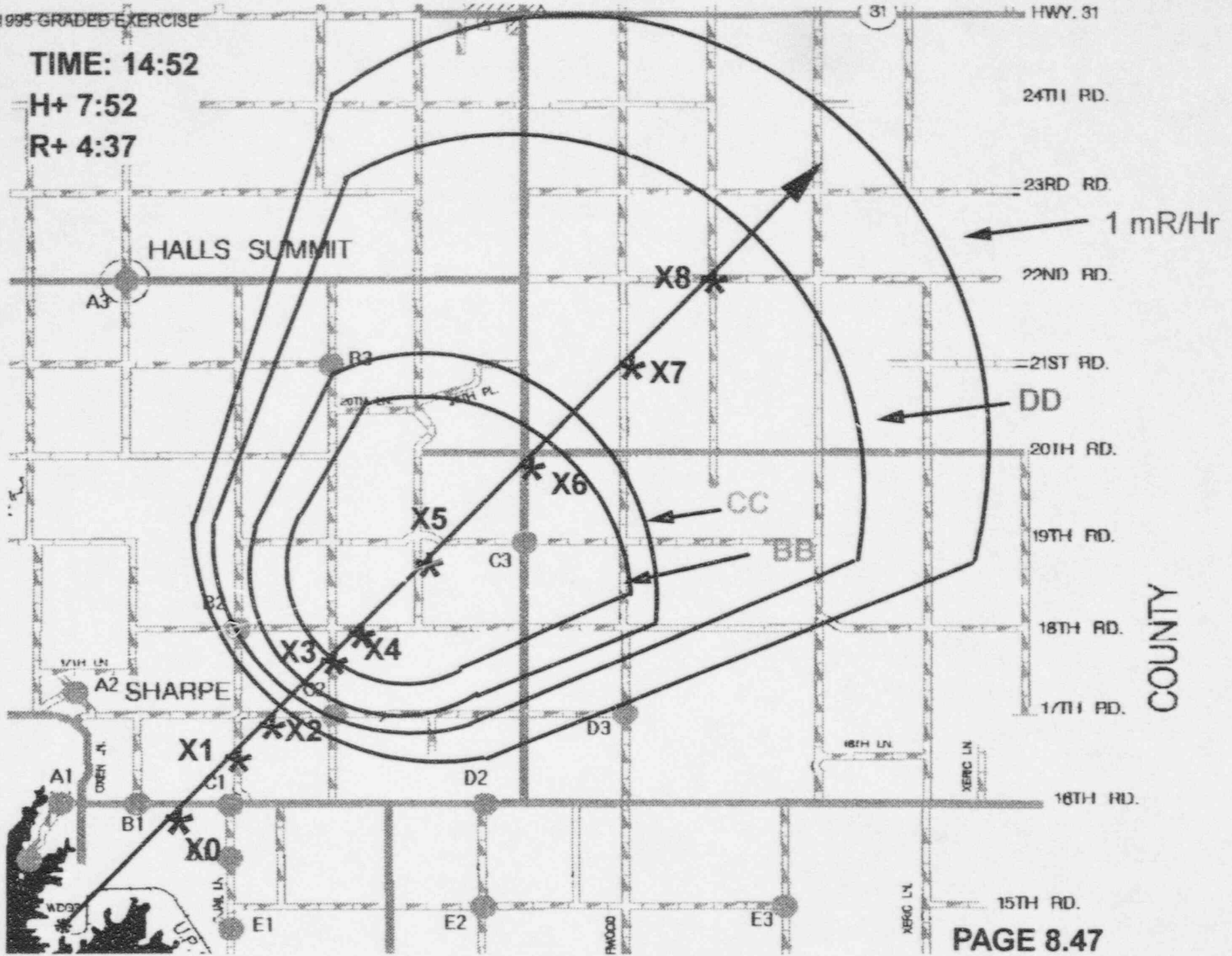


TABLE: ACTUAL 3-83 PM RELATIVE 5-93 POST RELEASE 4-88

SLOT (NO)	ACTUAL		RELATIVE				POST RELEASE					
	SIOT (NO)	XIS	OPEN RHR	CLOSED RHR	BETA RHR	TEDE RHR	PIC DOSE RATE (μR/hr)	PART CPM	PART uCi/cc	1-2 CPM	1-2 uCi/cc	1-2 RHR
EA8	0.75	2.04E-05	0.050	0.006	0.050	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
EA9	1.85	0.33E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
2 M8	2.80	7.54E-06	0.050	0.000	0.050	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
EA	2.50	5.57E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X1	2.88	5.12E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X2	3.80	4.18E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X3	4.85	2.90E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
EA	4.52	2.58E-06	0.079	0.051	0.073	0.050	1.0	7.52E+00	0.29E+11	1037	7.08E-07	0.201
5 M1 / 58	5.99	2.18E-06	0.049	0.053	0.064	0.058	0.9	6.80E+00	5.49E+11	1428	6.16E-07	0.175
US	5.88	1.52E-06	0.050	0.045	0.065	0.040	0.8	5.90E+00	4.80E+11	1720	5.29E-07	0.150
M8	6.99	1.37E-06	0.018	0.014	0.016	0.015	0.2	1.78E+00	1.42E+11	368	1.53E-07	0.045
CC	7.58	1.20E-06	0.016	0.012	0.015	0.014	0.2	1.81E+00	1.26E+11	333	1.84E-07	0.041
E7	8.85	1.92E-06	0.027	0.021	0.025	0.023	0.3	2.69E+00	2.14E+11	558	2.40E-07	0.068
M8	8.54	0.93E-07	0.025	0.018	0.023	0.021	0.3	2.46E+00	1.95E+11	508	2.18E-07	0.062
18 M1 / 00	10.80	0.38E-07	0.023	0.018	0.021	0.019	0.3	2.29E+00	1.87E+11	474	2.04E-07	0.058

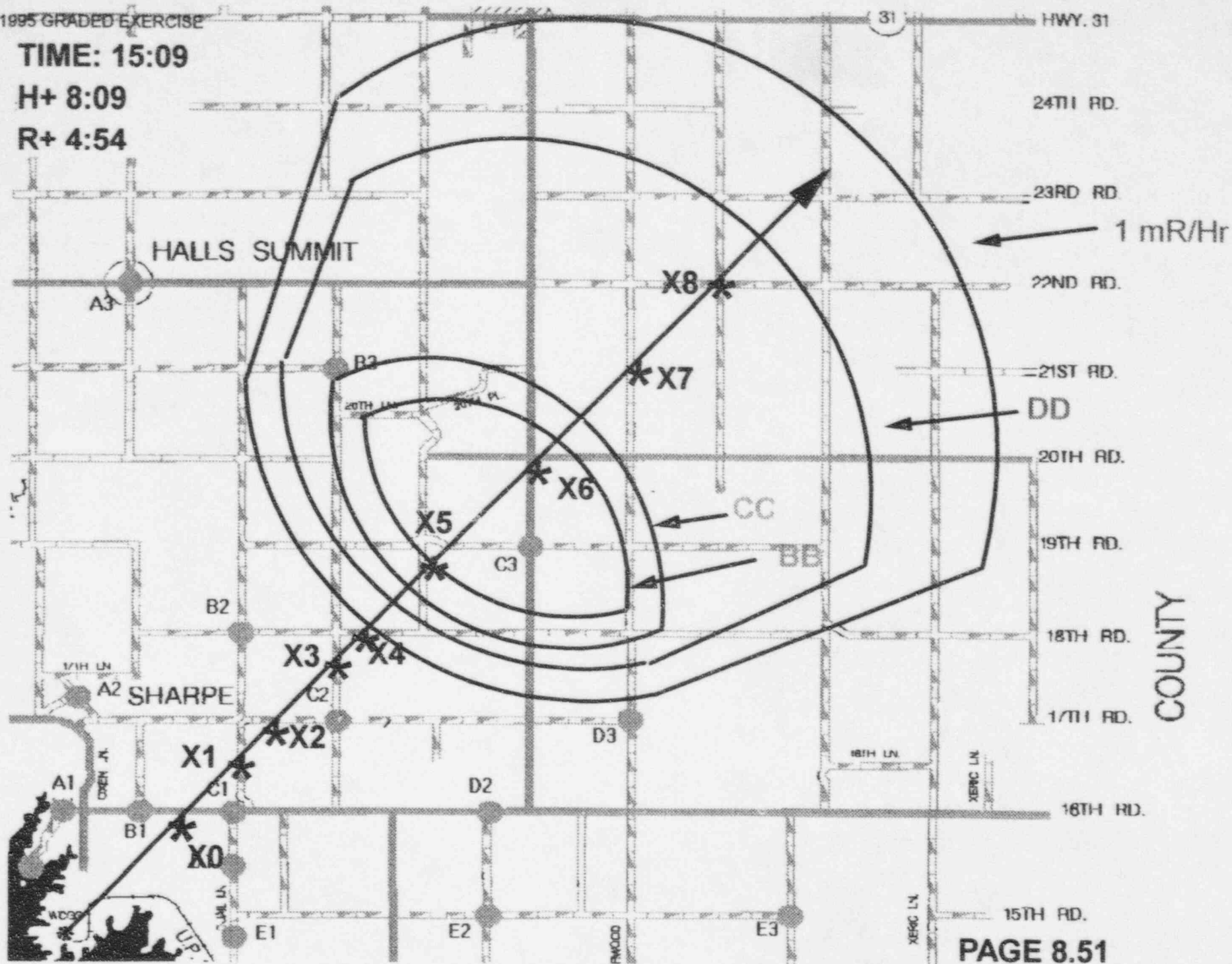
TIME	ACTUAL		3:00 PM		RELATIVE		8:00		POST RELEASE		4:34	
	DIST MFE	X/D	OPER RHR	CLOSED RHR	BETA RHR	TEDE RHR	PIC DOSE RA, C µR/hr	PART CPM	PART uCi/cc	1:2 CPM	1:2 uCi/cc	1:2 RHR
EAR	0.75	2.84E-05	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X9	1.85	8.32E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
ZH	2.00	7.94E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
AA	2.50	5.72E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X1	2.80	5.17E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X2	3.85	4.18E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X3	4.05	2.98E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X4	4.52	2.58E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
5M/8B	5.00	2.18E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X5	5.60	1.83E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X6	6.00	1.37E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
CC	7.50	1.24E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X7	8.95	1.82E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X8	8.54	8.93E-07	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
10M/100	10.00	8.36E-07	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000

1995 GRADED EXERCISE

TIME: 15:09

H+ 8:09

R+ 4:54



TIME	ACTUAL		3:23 PM		RELATIVE		9:23		POST RELEASE		5:00		
	DNST (MG)	X10	OPEN RHR	CLOSED RHR	BETA RHR	TEDE RHR	RATE (mSv/hr)	PIC DOSE (mSv/hr)	PART CPM	PART uCi/cc	1-2 CPM	1-2 uCi/cc	1-2 RHR
CAB	0.75	2.64E-05	0.000	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X0	1.85	0.33E-00	0.000	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
Z WH	2.90	7.54E-06	0.000	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
AA	2.50	5.57E-06	0.000	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X1	2.85	5.12E-06	0.000	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X2	3.00	4.18E-06	0.000	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X3	4.85	2.50E-06	0.000	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X4	4.57	2.50E-06	0.000	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
S WH / B	5.00	2.18E-06	0.000	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X5	5.88	1.83E-06	0.000	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X6	8.95	1.37E-06	0.044	0.034	0.041	0.037	0.6	0.6	4.41E+00	3.51E+11	913	3.94E-07	0.117
CC	7.50	1.24E-06	0.048	0.031	0.037	0.034	0.5	0.5	4.00E+00	3.18E+11	928	2.56E-07	0.101
X7	8.85	1.62E-06	0.013	0.010	0.012	0.011	0.2	0.2	1.33E+00	1.05E+11	274	1.10E-07	0.034
X8	8.54	0.93E-07	0.024	0.018	0.022	0.020	0.3	0.3	2.35E+00	1.87E+11	468	2.10E-07	0.060
10 WH / B	10.00	0.38E-07	0.022	0.017	0.020	0.018	0.3	0.3	2.20E+00	1.79E+11	458	1.96E-07	0.058

TIME	ACTUAL		3:30 PM		RELATIVE		8:30		POST RELEASE		5:23	
	DIST REQ	X/D	OPER RHR	CLOSED RHR	BETA RHR	TEDE RHR	PIC DOSE RATE mS/HR	PART CFM	PART eC/Sec	PART CFM	PART eC/Sec	PART CFM
EA8	0.75	2.64E-05	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000
X0	1.05	0.33E-04	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000
Z NI	2.25	7.54E-04	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000
AA	2.58	5.57E-04	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000
X1	2.88	5.17E-04	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000
X2	3.08	4.18E-04	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000
X3	4.05	2.99E-04	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000
X4	4.52	2.56E-04	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000
S MI / S5	5.08	2.18E-04	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000
X5	5.58	1.83E-04	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000
X6	6.59	1.37E-04	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000
CC	7.58	1.24E-04	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000
X7	8.55	1.07E-04	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000
X8	9.54	8.97E-05	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000
10 MI / D0	10.00	8.39E-05	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000

TIME: 15:38

+ 8:38

+ 5:23



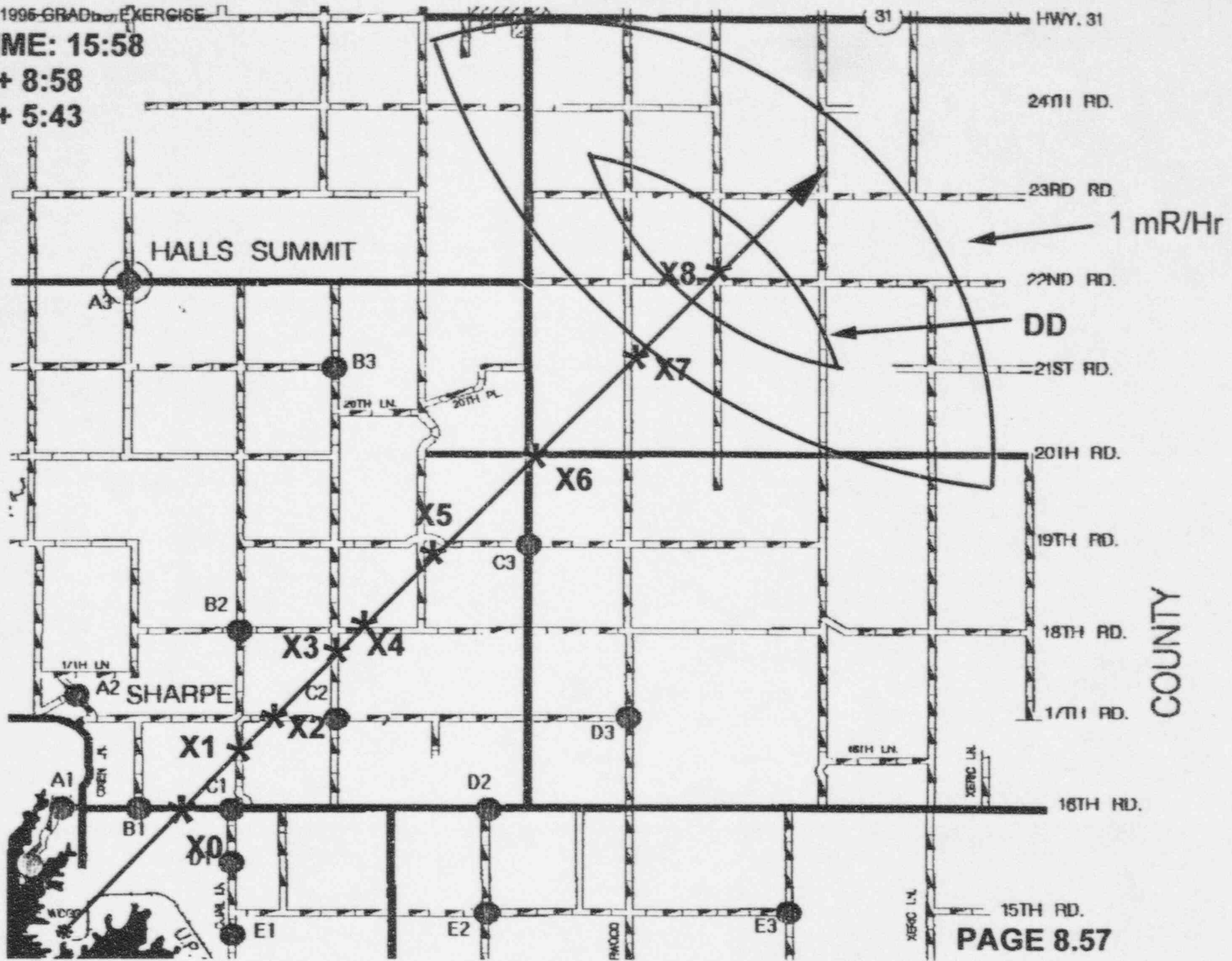
COUNTY

TIME	ACTUAL		RELATIVE			POST RELEASE		5-93				
	DIST (MI)	XIG	OPEN	CLOSED	BETA	TEDE	PIC DOSE RATE (mR/hr)	PART CPM	*PART %Ca ⁴⁰	1-2 CPM	1-2 %Cl ³⁶	1-2 RMR
	0.75	2.84E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
	1.85	8.33E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
	2.00	7.54E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
	2.50	5.57E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
	2.85	5.17E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
	3.85	4.18E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
	4.85	2.98E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
	5.00	2.18E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
	5.85	1.83E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
	6.50	1.37E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
	7.50	1.24E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
	8.85	1.82E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
	8.54	8.93E-07	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
	18.00	8.36E-07	0.027	0.072	0.026	0.024	0.4	2.83E+00	2.25E+11	585	2.52E-07	0.072
			0.027	0.078	0.025	0.022	0.3	2.89E+00	2.10E+11	647	2.36E-07	0.067

TIME: 15:58

+ 8:58

+ 5:43



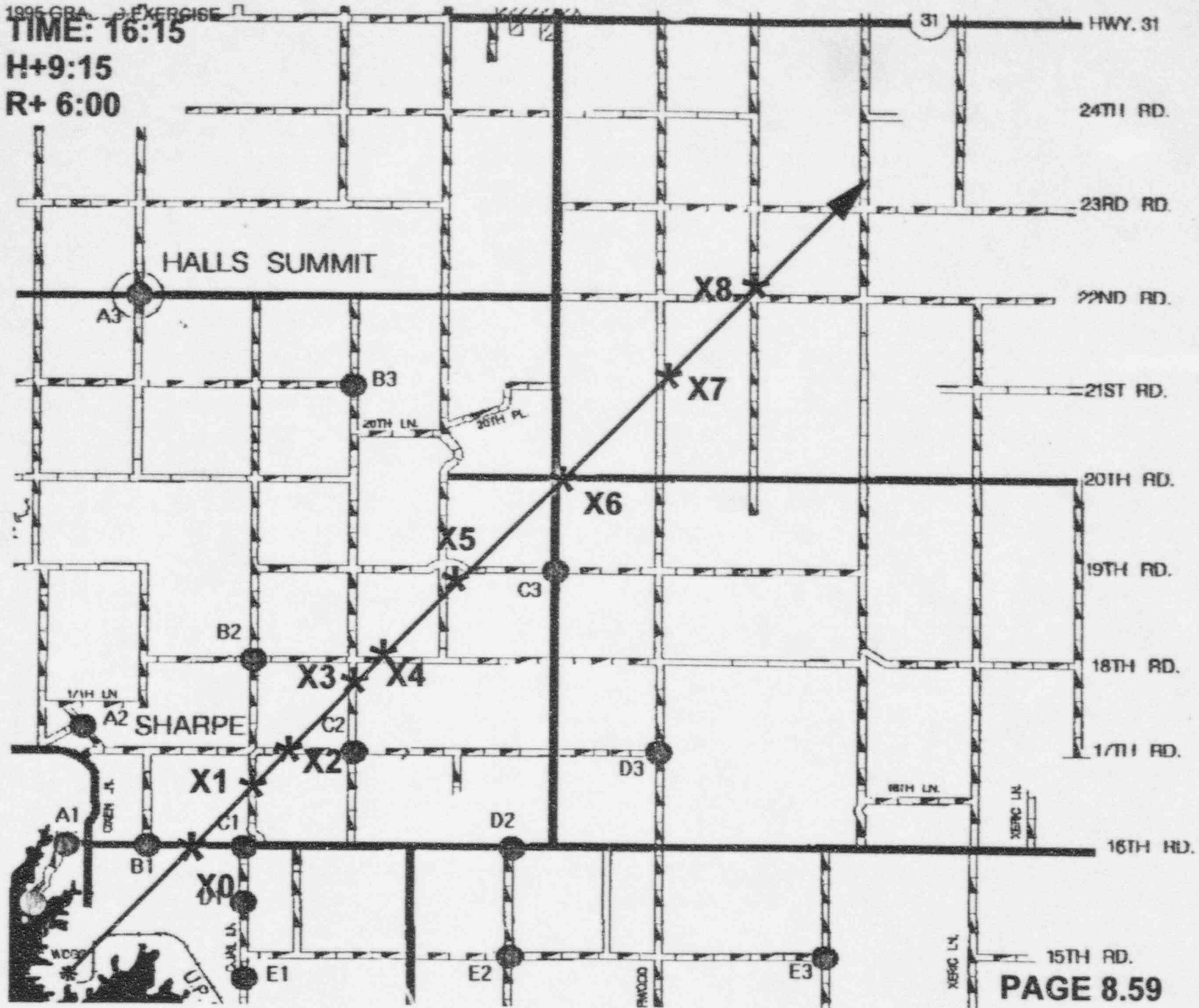
COUNTY

TIME	ACTUAL		4:15 PM		RELATIVE		9:15		POST RELEASE		8:00	
	DIST MIG	X/B	OPEN RHR	CLOSED RHR	BETA RHR	TEDE RHR	P/C DOSE RATE (µCi/mi)	PART CPM	PART µCi/cz	1-2 CPM	1-2 µCi/cz	1-2 RHR
EA8	0.75	2.84E-05	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
Z8	1.85	8.33E-05	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
Z8H	2.90	7.56E-05	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
JA	2.50	5.17E-05	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X1	2.80	5.17E-05	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X2	3.85	4.18E-05	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X3	4.85	2.90E-05	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X4	4.52	2.50E-05	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
5 HR / 80	5.00	2.18E-05	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X5	5.80	1.83E-05	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X6	6.90	1.37E-05	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
CC	7.50	1.24E-05	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X7	8.85	7.82E-06	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
X8	9.54	5.53E-07	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000
10 HR / 00	10.00	0.30E-07	0.000	0.000	0.000	0.000	0.0	0.00E+00	0.00E+00	0	0.00E+00	0.000

TIME: 16:15

H+9:15

R+ 6:00



COUNTY

INGESTION PATHWAY

DAY 2

ZONE 1							
16-Aug							
		DRINKING WATER		PRODUCE		LEAFY VEGETABLE	
MILK	SAMPLE		Sample		Sample		Sample
	CONC		Analysis,		Analysis,		Analysis,
	(uCi/l)	Nuclide	(uCi/l)	Nuclide	(uCi/kg)	Nuclide	(uCi/kg)
I-131	8.36E-02	I-131	2.27E-04	I-131	1.51E-01	I-131	2.27E-01
CS-134	9.54E-03	I-132	2.30E-04	I-132	1.53E-01	I-132	2.30E-01
CS-137	5.54E-03	I-133	3.51E-04	I-133	2.34E-01	I-133	3.51E-01
SR-90	5.30E-07	Rb-86	2.17E-06	Rb-86	1.45E-03	Rb-86	2.17E-03
SR-89	1.18E-05	Cs-134	2.59E-04	Cs-134	1.72E-01	Cs-134	2.59E-01
		Cs-136	2.78E-04	Cs-136	1.85E-01	Cs-136	2.78E-01
		Cs-137	1.50E-04	Cs-137	1.00E-01	Cs-137	1.50E-01
FORAGE		Te-127	9.26E-07	Te-127	6.17E-04	Te-127	9.26E-04
		Te-129	1.44E-06	Te-131	9.57E-04	Te-131	1.44E-03
I-131	4.53E-05	Te-131	1.02E-06	Te-132	6.81E-04	Te-132	1.02E-03
CS-134	5.17E-05	Te-132	2.36E-05	Sb-127	1.57E-02	Sb-127	2.36E-02
CS-137	3.00E-05	Sb-127	0.00E+00	Sr-90	0.00E+00	Sr-90	0.00E+00
Sr-90	2.87E-09	Sr-90	1.44E-08	Sr-89	9.57E-06	Sr-89	1.44E-05
Sr-89	6.38E-08	Sr-89	3.19E-07	Ba-140	2.13E-04	Ba-140	3.19E-04
		Ba-140	3.19E-07	La-140	2.13E-04	La-140	3.19E-04
DEPOSITION		Mo-99	6.38E-05	Mo-99	4.26E-02	Mo-99	6.38E-02
		Ru-103	4.47E-06	Ru-103	2.98E-05	Ru-103	4.47E-05
I-131	6.80E-05	Ru-106	1.34E-08	Ru-106	8.94E-06	Ru-106	1.34E-05
CS-134	7.76E-05	Rh-105	0.00E+00	Rh-105	0.00E+00	Rh-105	0.00E+00
CS-137	4.50E-05	Co-58	0.00E+00	Co-58	0.00E+00	Co-58	0.00E+00
Sr-90	4.31E-09	Co-60	0.00E+00	Co-60	0.00E+00	Co-60	0.00E+00
Sr-89	9.57E-06	Y-90	2.87E-08	Y-90	1.91E-05	Y-90	2.87E-05
		Y-91	4.47E-08	Y-91	2.98E-05	Y-91	4.47E-05
		Zr-95	5.11E-08	Zr-95	3.40E-05	Zr-95	5.11E-05
		Zr-97	0.00E+00	Zr-97	0.00E+00	Zr-97	0.00E+00
		Nb-95	5.11E-08	Nb-95	3.40E-05	Nb-95	5.11E-05
		La-140	1.15E-07	Ce-141	7.66E-05	Ce-141	1.15E-04
		Ce-141	5.11E-08	Ce-143	3.40E-05	Ce-143	5.11E-05
		Ce-143	4.15E-08	Ce-144	2.77E-05	Ce-144	4.15E-05
		Ce-144	3.51E-08	Pr-143	2.34E-05	Pr-143	3.51E-05
		Pr-143	4.79E-08	Nd-147	3.19E-05	Nd-147	4.79E-05
		Nd-147	0.00E+00	Np-239	0.00E+00	Np-239	0.00E+00
		Np-239	0.00E+00	Pu-238	0.00E+00	Pu-238	0.00E+00
		Pu-238	0.00E+00	Pu-239	0.00E+00	Pu-239	0.00E+00
		Pu-239	0.00E+00	Pu-240	0.00E+00	Pu-240	0.00E+00
		Pu-240	0.00E+00	Pu-241	0.00E+00	Pu-241	0.00E+00
		Pu-241	0.00E+00	Am-241	0.00E+00	Am-241	0.00E+00
		Am-241	0.00E+00	Cm-242	0.00E+00	Cm-242	0.00E+00
		Cm-242	0.00E+00	Cm-244	0.00E+00	Cm-244	0.00E+00
		Cm-244	0.00E+00				

ZONE 2							
16-Aug							
		DRINKING WATER		PRODUCE		LEAFY VEGETABLE	
MILK	SAMPLE		Sample		Sample		Sample
	CONC		Analysis,		Analysis,		Analysis,
	(uCi/l)	Nuclide	(uCi/l)	Nuclide	(uCi/kg)	Nuclide	(uCi/kg)
I-131	3.71E-02	I-131	1.51E-04	I-131	1.01E-01	I-131	1.51E-01
CS-134	4.24E-03	I-132	1.53E-04	I-132	1.02E-01	I-132	1.53E-01
CS-137	2.46E-03	I-133	2.33E-04	I-133	1.56E-01	I-133	2.33E-01
SR-90	2.35E-07	Rb-86	1.44E-06	Rb-86	9.65E-04	Rb-86	1.44E-03
SR-89	5.23E-06	Cs-134	1.72E-04	Cs-134	1.15E-01	Cs-134	1.72E-01
		Cs-136	1.85E-04	Cs-136	1.23E-01	Cs-136	1.85E-01
		Cs-137	9.98E-05	Cs-137	6.67E-02	Cs-137	9.98E-02
FORAGE		Te-127	6.15E-07	Te-127	4.12E-04	Te-127	6.15E-04
		Te-129	9.55E-07	Te-131	6.39E-04	Te-131	9.55E-04
I-131	2.01E-05	Te-131	6.79E-07	Te-132	4.54E-04	Te-132	6.79E-04
CS-134	2.30E-05	Te-132	1.57E-05	Sb-127	1.05E-02	Sb-127	1.57E-02
CS-137	1.33E-05	Sb-127	0.00E+00	Sr-90	0.00E+00	Sr-90	0.00E+00
Sr-90	1.28E-09	Sr-90	9.55E-09	Sr-89	6.39E-06	Sr-89	9.55E-06
Sr-89	2.83E-08	Sr-89	2.12E-07	Ba-140	1.42E-04	Ba-140	2.12E-04
		Ba-140	2.12E-07	La-140	1.42E-04	La-140	2.12E-04
DEPOSITION		Mo-99	4.24E-05	Mo-99	2.84E-02	Mo-99	4.24E-02
		Ru-103	2.97E-08	Ru-103	1.99E-05	Ru-103	2.97E-05
I-131	3.02E-05	Ru-106	8.91E-09	Ru-106	5.96E-06	Ru-106	8.91E-06
CS-134	3.44E-05	Rh-105	0.00E+00	Rh-105	0.00E+00	Rh-105	0.00E+00
CS-137	2.00E-05	Co-58	0.00E+00	Co-58	0.00E+00	Co-58	0.00E+00
Sr-90	1.91E-09	Co-60	0.00E+00	Co-60	0.00E+00	Co-60	0.00E+00
Sr-89	4.25E-08	Y-90	1.91E-08	Y-90	1.28E-05	Y-90	1.91E-05
		Y-91	2.97E-08	Y-91	1.99E-05	Y-91	2.97E-05
		Zr-95	3.40E-08	Zr-95	2.27E-05	Zr-95	3.40E-05
		Zr-97	0.00E+00	Zr-97	0.00E+00	Zr-97	0.00E+00
		Nb-95	3.40E-08	Nb-95	2.27E-05	Nb-95	3.40E-05
		La-140	7.64E-06	Ce-141	5.11E-05	Ce-141	7.64E-05
		Ce-141	3.40E-06	Ce-143	2.27E-05	Ce-143	3.40E-05
		Ce-143	2.76E-06	Ce-144	1.84E-05	Ce-144	2.76E-05
		Ce-144	2.33E-06	Pr-143	1.56E-05	Pr-143	2.33E-05
		Pr-143	3.18E-06	Nd-147	2.13E-05	Nd-147	3.18E-05
		Nd-147	0.00E+00	Np-239	0.00E+00	Np-239	0.00E+00
		Np-239	0.00E+00	Pu-238	0.00E+00	Pu-238	0.00E+00
		Pu-238	0.00E+00	Pu-239	0.00E+00	Pu-239	0.00E+00
		Pu-239	0.00E+00	Pu-240	0.00E+00	Pu-240	0.00E+00
		Pu-240	0.00E+00	Pu-241	0.00E+00	Pu-241	0.00E+00
		Pu-241	0.00E+00	Am-241	0.00E+00	Am-241	0.00E+00
		Am-241	0.00E+00	Cm-242	0.00E+00	Cm-242	0.00E+00
		Cm-242	0.00E+00	Cm-244	0.00E+00	Cm-244	0.00E+00
		Cm-244	0.00E+00				

ZONE 3							
16-Aug							
		DRINKING WATER		PRODUCE		LEAFY VEGETABLE	
MILK	SAMPLE		Sample		Sample		Sample
	CONC		Analysis,		Analysis,		Analysis,
	(uCi/l)	Nuclide	(uCi/l)	Nuclide	(uCi/kg)	Nuclide	(uCi/kg)
I-131	9.28E-03	I-131	7.55E-05	I-131	5.03E-02	I-131	7.55E-02
CS-134	1.06E-03	I-132	7.65E-05	I-132	5.10E-02	I-132	7.65E-02
CS-137	6.14E-04	I-133	1.17E-04	I-133	7.79E-02	I-133	1.17E-01
SR-90	5.88E-08	Rb-86	7.23E-07	Rb-86	4.82E-04	Rb-86	7.23E-04
SR-89	1.31E-06	Cs-134	8.61E-05	Cs-134	5.74E-02	Cs-134	8.61E-02
		Cs-136	9.25E-05	Cs-136	6.16E-02	Cs-136	9.25E-02
		Cs-137	5.00E-05	Cs-137	3.33E-02	Cs-137	5.00E-02
FORAGE		Te-127	3.08E-07	Te-127	2.05E-04	Te-127	3.08E-04
		Te-129	4.78E-07	Te-131	3.19E-04	Te-131	4.78E-04
I-131	5.03E-06	Te-131	3.40E-07	Te-132	2.27E-04	Te-132	3.40E-04
CS-134	5.74E-06	Te-132	7.86E-06	Sb-127	5.24E-03	Sb-127	7.86E-03
CS-137	3.33E-06	Sb-127	0.00E+00	Sr-90	0.00E+00	Sr-90	0.00E+00
Sr-90	3.19E-10	Sr-90	4.78E-09	Sr-89	3.19E-06	Sr-89	4.78E-06
Sr-89	7.09E-09	Sr-89	1.06E-07	Ba-140	7.09E-05	Ba-140	1.06E-04
		Ba-140	1.06E-07	La-140	7.09E-05	La-140	1.06E-04
DEPOSITION		Mo-99	2.13E-05	Mo-99	1.42E-02	Mo-99	2.13E-02
		Ru-103	1.49E-08	Ru-103	9.92E-06	Ru-103	1.49E-05
I-131	7.55E-06	Ru-106	4.46E-09	Ru-106	2.98E-06	Ru-106	4.46E-06
CS-134	8.61E-06	Rh-105	0.00E+00	Rh-105	0.00E+00	Rh-105	0.00E+00
CS-137	5.00E-06	Co-58	0.00E+00	Co-58	0.00E+00	Co-58	0.00E+00
Sr-90	4.78E-10	Co-60	0.00E+00	Co-60	0.00E+00	Co-60	0.00E+00
Sr-89	1.06E-08	Y-90	9.56E-09	Y-90	6.38E-06	Y-90	9.56E-06
		Y-91	1.49E-08	Y-91	9.92E-06	Y-91	1.49E-05
		Zr-95	1.70E-08	Zr-95	1.13E-05	Zr-95	1.70E-05
		Zr-97	0.00E+00	Zr-97	0.00E+00	Zr-97	0.00E+00
		Nb-95	1.70E-08	Nb-95	1.13E-05	Nb-95	1.70E-05
		La-140	3.83E-08	Ce-141	2.55E-05	Ce-141	3.83E-05
		Ce-141	1.70E-08	Ce-143	1.13E-05	Ce-143	1.70E-05
		Ce-143	1.38E-08	Ce-144	9.21E-06	Ce-144	1.38E-05
		Ce-144	1.17E-08	Pr-143	7.79E-06	Pr-143	1.17E-05
		Pr-143	1.59E-08	Nd-147	1.06E-05	Nd-147	1.59E-05
		Nd-147	0.00E+00	Np-239	0.00E+00	Np-239	0.00E+00
		Np-239	0.00E+00	Pu-238	0.00E+00	Pu-238	0.00E+00
		Pu-238	0.00E+00	Pu-239	0.00E+00	Pu-239	0.00E+00
		Pu-239	0.00E+00	Pu-240	0.00E+00	Pu-240	0.00E+00
		Pu-240	0.00E+00	Pu-241	0.00E+00	Pu-241	0.00E+00
		Pu-241	0.00E+00	Am-241	0.00E+00	Am-241	0.00E+00
		Am-241	0.00E+00	Cm-242	0.00E+00	Cm-242	0.00E+00
		Cm-242	0.00E+00	Cm-244	0.00E+00	Cm-244	0.00E+00
		Cm-244	0.00E+00				

ZONE 4							
16-Aug							
		DRINKING WATER		PRODUCE		LEAFY VEGETABLE	
MILK	SAMPLE		Sample		Sample		Sample
	CONC		Analysis		Analysis		Analysis
	(uCi/l)	Nuclide	(uCi/l)	Nuclide	(uCi/kg)	Nuclide	(uCi/kg)
I-131	2.32E-03	I-131	3.77E-05	I-131	2.52E-02	I-131	3.77E-02
CS-134	2.65E-04	I-132	3.83E-05	I-132	2.55E-02	I-132	3.83E-02
CS-137	1.54E-04	I-133	5.85E-05	I-133	3.90E-02	I-133	5.85E-02
SR-90	1.47E-06	Rb-86	3.61E-07	Rb-86	2.41E-04	Rb-86	3.61E-04
SR-89	3.27E-07	Cs-134	4.30E-05	Cs-134	2.87E-02	Cs-134	4.30E-02
		Cs-136	4.62E-05	Cs-136	3.08E-02	Cs-136	4.62E-02
		Cs-137	2.50E-05	Cs-137	1.67E-02	Cs-137	2.50E-02
FORAGE		Te-127	1.54E-07	Te-127	1.03E-04	Te-127	1.54E-04
		Te-129	2.39E-07	Te-131	1.59E-04	Te-131	2.39E-04
I-131	1.26E-06	Te-131	1.70E-07	Te-132	1.13E-04	Te-132	1.70E-04
CS-134	1.44E-06	Te-132	3.93E-06	Sb-127	2.62E-03	Sb-127	3.93E-03
CS-137	8.33E-07	Sb-127	0.00E+00	Sr-90	0.00E+00	Sr-90	0.00E+00
Sr-90	7.98E-11	Sr-90	2.39E-09	Sr-89	1.59E-06	Sr-89	2.39E-06
Sr-89	1.77E-09	Sr-89	5.31E-08	Ba-140	3.54E-05	Ba-140	5.31E-05
		Ba-140	5.31E-08	La-140	3.54E-05	La-140	5.31E-05
DEPOSITION		Mo-99	1.06E-05	Mo-99	7.09E-03	Mo-99	1.06E-02
		Ru-103	7.44E-09	Ru-103	4.96E-06	Ru-103	7.44E-06
I-131	1.89E-06	Ru-106	2.23E-09	Ru-106	1.49E-06	Ru-106	2.23E-06
CS-134	2.15E-06	Rh-105	0.00E+00	Rh-105	0.00E+00	Rh-105	0.00E+00
CS-137	1.25E-06	Co-58	0.00E+00	Co-58	0.00E+00	Co-58	0.00E+00
Sr-90	1.20E-10	Co-60	0.00E+00	Co-60	0.00E+00	Co-60	0.00E+00
Sr-89	2.66E-09	Y-90	4.78E-09	Y-90	3.19E-06	Y-90	4.78E-06
		Y-91	7.44E-09	Y-91	4.96E-06	Y-91	7.44E-06
		Zr-95	8.50E-09	Zr-95	5.67E-06	Zr-95	8.50E-06
		Zr-97	0.00E+00	Zr-97	0.00E+00	Zr-97	0.00E+00
		Nb-95	8.50E-09	Nb-95	5.67E-06	Nb-95	8.50E-06
		La-140	1.91E-08	Ce-141	1.28E-05	Ce-141	1.91E-05
		Ce-141	8.50E-09	Ce-143	5.67E-06	Ce-143	8.50E-06
		Ce-143	6.91E-09	Ce-144	4.61E-06	Ce-144	6.91E-06
		Ce-144	5.85E-09	Pr-143	3.90E-06	Pr-143	5.85E-06
		Pr-143	7.97E-09	Nd-147	5.31E-06	Nd-147	7.97E-06
		Nd-147	0.00E+00	Np-239	0.00E+00	Np-239	0.00E+00
		Np-239	0.00E+00	Pu-238	0.00E+00	Pu-238	0.00E+00
		Pu-238	0.00E+00	Pu-239	0.00E+00	Pu-239	0.00E+00
		Pu-239	0.00E+00	Pu-240	0.00E+00	Pu-240	0.00E+00
		Pu-240	0.00E+00	Pu-241	0.00E+00	Pu-241	0.00E+00
		Pu-241	0.00E+00	Am-241	0.00E+00	Am-241	0.00E+00
		Am-241	0.00E+00	Cm-242	0.00E+00	Cm-242	0.00E+00
		Cm-242	0.00E+00	Cm-244	0.00E+00	Cm-244	0.00E+00
		Cm-244	0.00E+00				

ZONE 6							
16-Aug							
		DRINKING WATER		PRODUCE		LEAFY VEGETABLE	
MILK	SAMPLE		Sample		Sample		Sample
	CONC		Analysis,		Analysis,		Analysis,
	(uCi)	Nuclide	(uCi)	Nuclide	(uCi/kg)	Nuclide	(uCi/kg)
I-131	5.81E-04	I-131	1.89E-05	I-131	1.26E-02	I-131	1.89E-02
CS-134	6.63E-05	I-132	1.91E-05	I-132	1.28E-02	I-132	1.91E-02
CS-137	3.85E-05	I-133	2.92E-05	I-133	1.95E-02	I-133	2.92E-02
SR-90	3.68E-09	Rb-86	1.81E-07	Rb-86	1.20E-04	Rb-86	1.81E-04
SR-89	8.18E-08	Cs-134	2.15E-05	Cs-134	1.43E-02	Cs-134	2.15E-02
		Cs-136	2.31E-05	Cs-136	1.54E-02	Cs-136	2.31E-02
		Cs-137	1.25E-05	Cs-137	8.33E-03	Cs-137	1.25E-02
FORAGE		Te-127	7.71E-08	Te-127	5.14E-05	Te-127	7.71E-05
		Te-129	1.20E-07	Te-131	7.97E-05	Te-131	1.20E-04
I-131	3.15E-07	Te-131	8.50E-08	Te-132	5.67E-05	Te-132	8.50E-05
CS-134	3.59E-07	Te-132	1.97E-06	Sb-127	1.31E-03	Sb-127	1.97E-03
CS-137	2.09E-07	Sb-127	0.00E+00	Sr-90	0.00E+00	Sr-90	0.00E+00
Sr-90	2.00E-11	Sr-90	1.20E-09	Sr-89	7.97E-07	Sr-89	1.20E-06
Sr-89	4.44E-10	Sr-89	2.66E-08	Ba-140	1.77E-05	Ba-140	2.66E-05
		Ba-140	2.66E-08	La-140	1.77E-05	La-140	2.66E-05
DEPOSITION		Mo-99	5.31E-06	Mo-99	3.54E-03	Mo-99	5.31E-05
		Ru-103	3.72E-09	Ru-103	2.48E-06	Ru-103	3.72E-06
I-131	4.72E-07	Ru-106	1.12E-09	Ru-106	7.44E-07	Ru-106	1.12E-06
CS-134	5.39E-07	Rh-105	0.00E+00	Rh-105	0.00E+00	Rh-105	0.00E+00
CS-137	3.13E-07	Co-58	0.00E+00	Co-58	0.00E+00	Co-58	0.00E+00
Sr-90	2.99E-11	Co-60	0.00E+00	Co-60	0.00E+00	Co-60	0.00E+00
Sr-89	6.65E-10	Y-90	2.39E-09	Y-90	1.59E-06	Y-90	2.39E-06
		Y-91	3.72E-09	Y-91	2.48E-06	Y-91	3.72E-06
		Zr-95	4.25E-09	Zr-95	2.83E-06	Zr-95	4.25E-06
		Zr-97	0.00E+00	Zr-97	0.00E+00	Zr-97	0.00E+00
		Nb-95	4.25E-09	Nb-95	2.83E-06	Nb-95	4.25E-06
		La-140	9.57E-09	Ce-141	6.38E-06	Ce-141	9.57E-06
		Ce-141	4.25E-09	Ce-143	2.83E-06	Ce-143	4.25E-06
		Ce-143	3.45E-09	Ce-144	2.30E-06	Ce-144	3.45E-06
		Ce-144	2.92E-09	Pr-143	1.95E-06	Pr-143	2.92E-06
		Pr-143	3.99E-09	Nd-147	2.66E-06	Nd-147	3.99E-06
		Nd-147	0.00E+00	Np-239	0.00E+00	Np-239	0.00E+00
		Np-239	0.00E+00	Pu-238	0.00E+00	Pu-238	0.00E+00
		Pu-238	0.00E+00	Pu-239	0.00E+00	Pu-239	0.00E+00
		Pu-239	0.00E+00	Pu-240	0.00E+00	Pu-240	0.00E+00
		Pu-240	0.00E+00	Pu-241	0.00E+00	Pu-241	0.00E+00
		Pu-241	0.00E+00	Am-241	0.00E+00	Am-241	0.00E+00
		Am-241	0.00E+00	Cm-242	0.00E+00	Cm-242	0.00E+00
		Cm-242	0.00E+00	Cm-244	0.00E+00	Cm-244	0.00E+00
		Cm-244	0.00E+00				

ZONE 1							
22-Aug							
		DRINKING WATER		PRODUCE		LEAFY VEGETABLE	
MILK	SAMPLE		Sample		Sample		Sample
	CONC		Analysis,		Analysis,		Analysis,
	(uCi/l)	Nuclide	(uCi/l)	Nuclide	(uCi/kg)	Nuclide	(uCi/kg)
I-131	1.34E-02	I-131	9.06E-05	I-131	6.04E-02	I-131	9.06E-02
CS-134	1.53E-03	I-132	9.19E-05	I-132	6.13E-02	I-132	9.19E-02
CS-137	8.86E-04	I-133	1.40E-04	I-133	9.36E-02	I-133	1.40E-01
SR-90	6.48E-08	Rb-86	6.68E-07	Rb-86	5.79E-04	Rb-86	6.68E-04
SR-89	1.88E-06	Cs-134	1.03E-04	Cs-134	6.89E-02	Cs-134	1.03E-01
		Cs-136	1.11E-04	Cs-136	7.40E-02	Cs-136	1.11E-01
		Cs-137	6.00E-05	Cs-137	4.00E-02	Cs-137	6.00E-02
FORAGE		Te-127	3.70E-07	Te-127	2.47E-04	Te-127	3.70E-04
		Te-129	5.74E-07	Te-131	3.83E-04	Te-131	5.74E-04
I-131	7.25E-06	Te-131	4.09E-07	Te-132	2.72E-04	Te-132	4.09E-04
CS-134	8.27E-06	Te-132	9.45E-06	Sb-127	6.30E-03	Sb-127	9.45E-03
CS-137	4.80E-06	Sb-127	0.00E+00	Sr-90	0.00E+00	Sr-90	0.00E+00
Sr-90	4.60E-10	Sr-90	5.74E-09	Sr-89	3.83E-06	Sr-89	5.74E-06
Sr-89	1.02E-08	Sr-89	1.28E-07	Ba-140	8.51E-05	Ba-140	1.28E-04
		Ba-140	1.28E-07	La-140	8.51E-05	La-140	1.28E-04
DEPOSITION		Mo-99	2.55E-05	Mo-99	1.70E-02	Mo-99	2.55E-02
		Ru-103	1.79E-08	Ru-103	1.19E-05	Ru-103	1.79E-05
I-131	1.09E-05	Ru-106	5.36E-09	Ru-106	3.57E-06	Ru-106	5.36E-06
CS-134	1.24E-05	Rh-105	0.00E+00	Rh-105	0.00E+00	Rh-105	0.00E+00
CS-137	7.20E-06	Co-58	0.00E+00	Co-58	0.00E+00	Co-58	0.00E+00
Sr-90	6.89E-10	Co-60	0.00E+00	Co-60	0.00E+00	Co-60	0.00E+00
Sr-89	1.53E-08	Y-90	1.15E-08	Y-90	7.66E-06	Y-90	1.15E-05
		Y-91	1.79E-08	Y-91	1.19E-05	Y-91	1.79E-05
		Zr-95	2.04E-08	Zr-95	1.36E-05	Zr-95	2.04E-05
		Zr-97	0.00E+00	Zr-97	0.00E+00	Zr-97	0.00E+00
		Nb-95	2.04E-08	Nb-95	1.36E-05	Nb-95	2.04E-05
		La-140	4.60E-08	Ce-141	3.06E-05	Ce-141	4.60E-05
		Ce-141	2.04E-08	Ce-143	1.36E-05	Ce-143	2.04E-05
		Ce-143	1.66E-08	Ce-144	1.11E-05	Ce-144	1.66E-05
		Ce-144	1.40E-08	Pr-143	9.38E-06	Pr-143	1.40E-05
		Pr-143	1.91E-08	Nd-147	1.28E-05	Nd-147	1.91E-05
		Nd-147	0.00E+00	Np-239	0.00E+00	Np-239	0.00E+00
		Np-239	0.00E+00	Pu-238	0.00E+00	Pu-238	0.00E+00
		Pu-238	0.00E+00	Pu-239	0.00E+00	Pu-239	0.00E+00
		Pu-239	0.00E+00	Pu-240	0.00E+00	Pu-240	0.00E+00
		Pu-240	0.00E+00	Pu-241	0.00E+00	Pu-241	0.00E+00
		Pu-241	0.00E+00	Am-241	0.00E+00	Am-241	0.00E+00
		Am-241	0.00E+00	Cm-242	0.00E+00	Cm-242	0.00E+00
		Cm-242	0.00E+00	Cm-244	0.00E+00	Cm-244	0.00E+00
		Cm-244	0.00E+00				

ZONE 2							
22-Aug							
		DRINKING WATER		PRODUCE		LEAFY VEGETABLE	
MILK	SAMPLE	Sample		Sample		Sample	
	CONC	Analysis		Analysis		Analysis	
	(uCi/l)	Nuclide	(uCi/l)	Nuclide	(uCi/kg)	Nuclide	(uCi/kg)
I-131	3.34E-03	I-131	4.53E-05	I-131	3.02E-02	I-131	4.53E-02
CS-134	3.82E-04	I-132	4.60E-05	I-132	3.06E-02	I-132	4.60E-02
CS-137	2.21E-04	I-133	7.02E-05	I-133	4.68E-02	I-133	7.02E-02
SR-90	2.12E-08	Rb-86	4.34E-07	Rb-86	2.89E-04	Rb-86	4.34E-04
SR-89	4.71E-07	Cs-134	5.17E-05	Cs-134	3.45E-02	Cs-134	5.17E-02
		Cs-136	5.55E-05	Cs-136	3.70E-02	Cs-136	5.55E-02
		Cs-137	3.00E-05	Cs-137	2.00E-02	Cs-137	3.00E-02
FORAGE		Te-127	1.85E-07	Te-127	1.23E-04	Te-127	1.85E-04
		Te-129	2.87E-07	Te-131	1.91E-04	Te-131	2.87E-04
I-131	1.81E-06	Te-131	2.04E-07	Te-132	1.36E-04	Te-132	2.04E-04
CS-134	2.07E-06	Te-132	4.72E-06	Sb-127	3.15E-03	Sb-127	4.72E-03
CS-137	1.20E-06	Sb-127	0.00E+00	Sr-90	0.00E+00	Sr-90	0.00E+00
Sr-90	1.15E-10	Sr-90	2.87E-09	Sr-89	1.91E-06	Sr-89	2.87E-06
Sr-89	2.55E-09	Sr-89	6.38E-08	Ba-140	4.26E-05	Ba-140	6.38E-05
		Ba-140	6.38E-08	La-140	4.26E-05	La-140	6.38E-05
DEPOSITION		Mo-99	1.28E-05	Mo-99	8.51E-03	Mo-99	1.28E-02
		Ru-103	8.94E-09	Ru-103	5.96E-06	Ru-103	8.94E-06
I-131	2.72E-06	Ru-106	2.68E-09	Ru-106	1.79E-06	Ru-106	2.68E-06
CS-134	3.10E-06	Rh-105	0.00E+00	Rh-105	0.00E+00	Rh-105	0.00E+00
CS-137	1.80E-06	Co-58	0.00E+00	Co-58	0.00E+00	Co-58	0.00E+00
Sr-90	1.72E-10	Co-60	0.00E+00	Co-60	0.00E+00	Co-60	0.00E+00
Sr-89	3.83E-09	Y-90	5.74E-09	Y-90	3.83E-06	Y-90	5.74E-06
		Y-91	8.94E-09	Y-91	5.96E-06	Y-91	8.94E-06
		Zr-95	1.02E-08	Zr-95	6.81E-06	Zr-95	1.02E-05
		Zr-97	0.00E+00	Zr-97	0.00E+00	Zr-97	0.00E+00
		Nb-95	1.02E-08	Nb-95	6.81E-06	Nb-95	1.02E-05
		La-140	2.30E-08	Ce-141	1.53E-05	Ce-141	2.30E-05
		Ce-141	1.02E-08	Ce-143	6.81E-06	Ce-143	1.02E-05
		Ce-143	8.30E-09	Ce-144	5.53E-06	Ce-144	8.30E-06
		Ce-144	7.02E-09	Pr-143	4.68E-06	Pr-143	7.02E-06
		Pr-143	9.57E-09	Nd-147	6.38E-06	Nd-147	9.57E-06
		Nd-147	0.00E+00	Np-239	0.00E+00	Np-239	0.00E+00
		Np-239	0.00E+00	Pu-238	0.00E+00	Pu-238	0.00E+00
		Pu-238	0.00E+00	Pu-239	0.00E+00	Pu-239	0.00E+00
		Pu-239	0.00E+00	Pu-240	0.00E+00	Pu-240	0.00E+00
		Pu-240	0.00E+00	Pu-241	0.00E+00	Pu-241	0.00E+00
		Pu-241	0.00E+00	Am-241	0.00E+00	Am-241	0.00E+00
		Am-241	0.00E+00	Cm-242	0.00E+00	Cm-242	0.00E+00
		Cm-242	0.00E+00	Cm-244	0.00E+00	Cm-244	0.00E+00
		Cm-244	0.00E+00				

ZONE 3							
22-Aug							
		DRINKING WATER		PRODUCE		LEAFY VEGETABLE	
MILK	SAMPLE		Sample		Sample		Sample
	CONC		Analysis,		Analysis,		Analysis,
	(uCi/l)	Nuclide	(uCi/l)	Nuclide	(uCi/kg)	Nuclide	(uCi/kg)
I-131	8.36E-04	I-131	2.27E-05	I-131	1.51E-02	I-131	2.27E-02
CS-134	9.54E-05	I-132	2.30E-05	I-132	1.53E-02	I-132	2.30E-02
CS-137	5.53E-05	I-133	3.51E-05	I-133	2.34E-02	I-133	3.51E-02
SR-90	5.30E-09	Rb-86	2.17E-07	Rb-86	1.45E-04	Rb-86	2.17E-04
SR-89	1.18E-07	Cs-134	2.59E-05	Cs-134	1.72E-02	Cs-134	2.59E-02
		Cs-136	2.78E-05	Cs-136	1.85E-02	Cs-136	2.78E-02
		Cs-137	1.50E-05	Cs-137	1.00E-02	Cs-137	1.50E-02
FORAGE		Te-127	9.26E-08	Te-127	6.17E-05	Te-127	9.26E-05
		Te-129	1.44E-07	Te-131	9.57E-05	Te-131	1.44E-04
I-131	4.53E-07	Te-131	1.02E-07	Te-132	6.81E-05	Te-132	1.02E-04
CS-134	5.17E-07	Te-132	2.36E-06	Sb-127	1.57E-03	Sb-127	2.36E-03
CS-137	3.00E-07	Sb-127	0.00E+00	Sr-90	0.00E+00	Sr-90	0.00E+00
SR-90	2.87E-11	Sr-90	1.44E-09	Sr-89	9.57E-07	Sr-89	1.44E-06
SR-89	6.38E-10	Sr-89	3.19E-08	Ba-140	2.13E-05	Ba-140	3.19E-05
		Ba-140	3.19E-08	La-140	2.13E-05	La-140	3.19E-05
DEPOSITION		Mo-99	6.38E-06	Mo-99	4.26E-03	Mo-99	6.38E-03
		Ru-103	4.47E-09	Ru-103	2.98E-06	Ru-103	4.47E-06
I-131	6.80E-07	Ru-106	1.34E-09	Ru-106	8.94E-07	Ru-106	1.34E-06
CS-134	7.75E-07	Rh-105	0.00E+00	Rh-105	0.00E+00	Rh-105	0.00E+00
CS-137	4.50E-07	Co-58	0.00E+00	Co-58	0.00E+00	Co-58	0.00E+00
SR-90	4.31E-11	Co-60	0.00E+00	Co-60	0.00E+00	Co-60	0.00E+00
SR-89	9.57E-10	Y-90	2.87E-09	Y-90	1.91E-06	Y-90	2.87E-06
		Y-91	4.47E-09	Y-91	2.98E-06	Y-91	4.47E-06
		Zr-95	5.11E-09	Zr-95	3.40E-06	Zr-95	5.11E-06
		Zr-97	0.00E+00	Zr-97	0.00E+00	Zr-97	0.00E+00
		Nb-95	5.11E-09	Nb-95	3.40E-06	Nb-95	5.11E-06
		La-140	1.15E-08	Ce-141	7.66E-06	Ce-141	1.15E-05
		Ce-141	5.11E-09	Ce-143	3.40E-06	Ce-143	5.11E-06
		Ce-143	4.15E-09	Ce-144	2.77E-06	Ce-144	4.15E-06
		Ce-144	3.51E-09	Pr-143	2.34E-06	Pr-143	3.51E-06
		Pr-143	4.79E-09	Nd-147	3.19E-06	Nd-147	4.79E-06
		Nd-147	0.00E+00	Np-239	0.00E+00	Np-239	0.00E+00
		Np-239	0.00E+00	Pu-238	0.00E+00	Pu-238	0.00E+00
		Pu-238	0.00E+00	Pu-239	0.00E+00	Pu-239	0.00E+00
		Pu-239	0.00E+00	Pu-240	0.00E+00	Pu-240	0.00E+00
		Pu-240	0.00E+00	Pu-241	0.00E+00	Pu-241	0.00E+00
		Pu-241	0.00E+00	Am-241	0.00E+00	Am-241	0.00E+00
		Am-241	0.00E+00	Cm-242	0.00E+00	Cm-242	0.00E+00
		Cm-242	0.00E+00	Cm-244	0.00E+00	Cm-244	0.00E+00
		Cm-244	0.00E+00				

ZONE 4							
22-Aug							
		DRINKING WATER		PRODUCE		LEAFY VEGETABLE	
MILK	SAMPLE		Sample		Sample		Sample
	CONC		Analysis,		Analysis,		Analysis,
	(uCi/l)	Nuclide	(uCi/l)	Nuclide	(uCi/kg)	Nuclide	(uCi/kg)
I-131	2.09E-04	I-131	1.13E-05	I-131	7.53E-03	I-131	1.13E-02
CS-134	2.38E-05	I-132	1.15E-05	I-132	7.64E-03	I-132	1.15E-02
CS-137	1.38E-05	I-133	1.75E-05	I-133	1.17E-02	I-133	1.75E-02
SR-80	1.32E-09	Rb-86	1.08E-07	Rb-86	7.22E-05	Rb-86	1.08E-04
SR-89	2.94E-08	Cs-134	1.29E-05	Cs-134	8.59E-03	Cs-134	1.29E-02
		Cs-136	1.38E-05	Cs-136	9.23E-03	Cs-136	1.38E-02
		Cs-137	7.48E-06	Cs-137	4.99E-03	Cs-137	7.48E-03
FORAGE		Te-127	4.62E-08	Te-127	3.08E-05	Te-127	4.62E-05
		Te-129	7.16E-08	Te-131	4.77E-05	Te-131	7.16E-05
I-131	1.13E-07	Te-131	5.09E-08	Te-132	3.40E-05	Te-132	5.09E-05
CS-134	1.29E-07	Te-132	1.18E-06	Sb-127	7.85E-04	Sb-127	1.18E-03
CS-137	7.50E-08	Sb-127	0.00E+00	Sr-90	0.00E+00	Sr-90	0.00E+00
Sr-90	7.18E-12	Sr-90	7.16E-10	Sr-89	4.77E-07	Sr-89	7.16E-07
Sr-89	1.60E-10	Sr-89	1.59E-08	Ba-140	1.06E-05	Ba-140	1.59E-05
		Ba-140	1.59E-08	La-140	1.06E-05	La-140	1.59E-05
DEPOSITION		Mo-99	3.18E-06	Mo-99	2.12E-03	Mo-99	3.18E-03
		Ru-103	2.23E-09	Ru-103	1.49E-06	Ru-103	2.23E-06
I-131	1.70E-07	Ru-106	6.68E-10	Ru-106	4.46E-07	Ru-106	6.68E-07
CS-134	1.94E-07	Rh-105	0.00E+00	Rh-105	0.00E+00	Rh-105	0.00E+00
CS-137	1.13E-07	Co-58	0.00E+00	Co-58	0.00E+00	Co-58	0.00E+00
Sr-90	1.08E-11	Co-60	0.00E+00	Co-60	0.00E+00	Co-60	0.00E+00
Sr-89	2.39E-10	Y-90	1.43E-09	Y-90	9.55E-07	Y-90	1.43E-06
		Y-91	2.23E-09	Y-91	1.49E-06	Y-91	2.23E-06
		Zr-95	2.55E-09	Zr-95	1.70E-06	Zr-95	2.55E-06
		Zr-97	0.00E+00	Zr-97	0.00E+00	Zr-97	0.00E+00
		Nb-95	2.55E-09	Nb-95	1.70E-06	Nb-95	2.55E-06
		La-140	5.73E-09	Ce-141	3.82E-06	Ce-141	5.73E-06
		Ce-141	2.55E-09	Ce-143	1.70E-06	Ce-143	2.55E-06
		Ce-143	2.07E-09	Ce-144	1.38E-06	Ce-144	2.07E-06
		Ce-144	1.75E-09	Pr-143	1.17E-06	Pr-143	1.75E-06
		Pr-143	2.39E-09	Nd-147	1.59E-06	Nd-147	2.39E-06
		Nd-147	0.00E+00	Np-239	0.00E+00	Np-239	0.00E+00
		Np-239	0.00E+00	Pu-238	0.00E+00	Pu-238	0.00E+00
		Pu-238	0.00E+00	Pu-239	0.00E+00	Pu-239	0.00E+00
		Pu-239	0.00E+00	Pu-240	0.00E+00	Pu-240	0.00E+00
		Pu-240	0.00E+00	Pu-241	0.00E+00	Pu-241	0.00E+00
		Pu-241	0.00E+00	Am-241	0.00E+00	Am-241	0.00E+00
		Am-241	0.00E+00	Cm-242	0.00E+00	Cm-242	0.00E+00
		Cm-242	0.00E+00	Cm-244	0.00E+00	Cm-244	0.00E+00
		Cm-244	0.00E+00				

ZONE 1							
18-Sep							
MILK		DRINKING WATER		PRODUCE		LEAFY VEGETABLE	
SAMPLE	CONC	Nuclide	Sample Analysis	Nuclide	Sample Analysis	Nuclide	Sample Analysis
(uCi/l)	(uCi/l)		(uCi/l)		(uCi/kg)		(uCi/kg)
I-131	0.00E+00	I-131	0.00E+00	I-131	0.00E+00	I-131	0.00E+00
CS-134	4.24E-05	I-132	0.00E+00	I-132	0.00E+00	I-132	0.00E+00
CS-137	2.46E-05	I-133	0.00E+00	I-133	0.00E+00	I-133	0.00E+00
SR-90	2.36E-09	Rb-86	1.45E-07	Rb-86	9.67E-05	Rb-86	1.45E-04
SR-89	5.23E-08	Cs-134	1.73E-05	Cs-134	1.15E-02	Cs-134	1.73E-02
		Cs-136	1.86E-05	Cs-136	1.24E-02	Cs-136	1.86E-02
		Cs-137	1.00E-05	Cs-137	6.68E-03	Cs-137	1.00E-02
FORAGE		Te-127	6.18E-08	Te-127	4.12E-05	Te-127	6.19E-05
		Te-129	9.60E-08	Te-131	6.40E-05	Te-131	9.61E-05
I-131	0.00E+00	Te-131	6.82E-08	Te-132	4.55E-05	Te-132	6.83E-05
CS-134	2.30E-07	Te-132	1.58E-06	Sb-127	1.05E-03	Sb-127	1.58E-03
CS-137	1.33E-07	Sb-127	0.00E+00	Sr-90	0.00E+00	Sr-90	0.00E+00
Sr-90	1.28E-11	Sr-90	9.60E-10	Sr-89	6.40E-07	Sr-89	9.61E-07
Sr-89	2.84E-10	Sr-89	2.13E-08	Ba-140	1.42E-05	Ba-140	2.13E-05
		Ba-140	2.13E-08	La-140	1.42E-05	La-140	2.13E-05
DEPOSITION		Mo-99	4.26E-06	Mo-99	2.84E-03	Mo-99	4.27E-03
		Ru-103	2.99E-09	Ru-103	1.99E-06	Ru-103	2.99E-06
I-131	0.00E+00	Ru-106	8.96E-10	Ru-106	5.97E-07	Ru-106	8.96E-07
CS-134	3.45E-07	Rh-105	0.00E+00	Rh-105	0.00E+00	Rh-105	0.00E+00
CS-137	2.00E-07	Co-58	0.00E+00	Co-58	0.00E+00	Co-58	0.00E+00
Sr-90	1.92E-11	Co-60	0.00E+00	Co-60	0.00E+00	Co-60	0.00E+00
Sr-89	4.26E-10	Y-90	1.92E-09	Y-90	1.28E-06	Y-90	1.92E-06
		Y-91	2.99E-09	Y-91	1.99E-06	Y-91	2.99E-06
		Zr-95	3.41E-09	Zr-95	2.27E-06	Zr-95	3.42E-06
		Zr-97	0.00E+00	Zr-97	0.00E+00	Zr-97	0.00E+00
		Nb-95	3.41E-09	Nb-95	2.27E-06	Nb-95	3.42E-06
		La-140	7.68E-09	Ce-141	5.12E-06	Ce-141	7.68E-06
		Ce-141	3.41E-09	Ce-143	2.27E-06	Ce-143	3.42E-06
		Ce-143	2.77E-09	Ce-144	1.85E-06	Ce-144	2.77E-06
		Ce-144	2.35E-09	Pr-143	1.56E-06	Pr-143	2.35E-06
		Pr-143	3.20E-09	Nd-147	2.13E-06	Nd-147	3.20E-06
		Nd-147	0.00E+00	Np-239	0.00E+00	Np-239	0.00E+00
		Np-239	0.00E+00	Pu-238	0.00E+00	Pu-238	0.00E+00
		Pu-238	0.00E+00	Pu-239	0.00E+00	Pu-239	0.00E+00
		Pu-239	0.00E+00	Pu-240	0.00E+00	Pu-240	0.00E+00
		Pu-240	0.00E+00	Pu-241	0.00E+00	Pu-241	0.00E+00
		Pu-241	0.00E+00	Am-241	0.00E+00	Am-241	0.00E+00
		Am-241	0.00E+00	Cm-242	0.00E+00	Cm-242	0.00E+00
		Cm-242	0.00E+00	Cm-244	0.00E+00	Cm-244	0.00E+00
		Cm-244	0.00E+00				

ZONE 2							
15-Sep							
		DRINKING WATER		PRODUCE		LEAFY VEGETABLE	
MILK	SAMPLE		Sample		Sample		Sample
	CONC		Analysis		Analysis		Analysis
	(uCi/l)	Nuclide	(uCi/l)	Nuclide	(uCi/kg)	Nuclide	(uCi/kg)
I-131	0.00E+00	I-131	7.55E-06	I-131	5.03E-03	I-131	7.48E-03
CS-134	1.06E-05	I-132	7.65E-06	I-132	5.10E-03	I-132	7.56E-03
CS-137	6.15E-06	I-133	1.17E-05	I-133	7.79E-03	I-133	1.16E-02
SR-90	5.89E-10	Rb-86	7.23E-08	Rb-86	4.82E-05	Rb-86	7.16E-05
SR-89	1.31E-08	Cs-134	8.61E-06	Cs-134	5.74E-03	Cs-134	8.53E-03
		Cs-136	9.25E-06	Cs-136	6.16E-03	Cs-136	9.16E-03
		Cs-137	5.00E-06	Cs-137	3.33E-03	Cs-137	4.95E-03
FORAGE		Te-127	3.06E-06	Te-127	2.05E-05	Te-127	3.06E-05
		Te-129	4.78E-08	Te-131	3.19E-05	Te-131	4.74E-05
I-131	0.00E+00	Te-131	3.40E-06	Te-132	2.27E-05	Te-132	3.37E-05
CS-134	5.74E-06	Te-132	7.86E-07	Sb-127	5.24E-04	Sb-127	7.79E-04
CS-137	3.33E-08	Sb-127	0.00E+00	Sr-90	0.00E+00	Sr-90	0.00E+00
Sr-90	3.19E-12	Sr-90	4.78E-10	Sr-89	3.19E-07	Sr-89	4.74E-07
Sr-89	7.09E-11	Sr-89	1.06E-08	Ba-140	7.09E-06	Ba-140	1.05E-05
		Ba-140	1.06E-08	La-140	7.09E-06	La-140	1.05E-05
DEPOSITION		Mo-99	2.13E-06	Mo-99	1.42E-03	Mo-99	2.11E-03
		Ru-103	1.49E-09	Ru-103	9.92E-07	Ru-103	1.47E-06
I-131	0.00E+00	Ru-106	4.46E-10	Ru-106	2.98E-07	Ru-106	4.42E-07
CS-134	8.62E-06	Rh-105	0.00E+00	Rh-105	0.00E+00	Rh-105	0.00E+00
CS-137	5.00E-06	Co-58	0.00E+00	Co-58	0.00E+00	Co-58	0.00E+00
Sr-90	4.79E-12	Co-60	0.00E+00	Co-60	0.00E+00	Co-60	0.00E+00
Sr-89	1.06E-10	Y-90	9.58E-10	Y-90	6.38E-07	Y-90	9.48E-07
		Y-91	1.49E-09	Y-91	9.92E-07	Y-91	1.47E-06
		Zr-95	1.70E-09	Zr-95	1.13E-06	Zr-95	1.69E-06
		Zr-97	0.00E+00	Zr-97	0.00E+00	Zr-97	0.00E+00
		Nb-95	1.70E-09	Nb-95	1.13E-06	Nb-95	1.69E-06
		La-140	3.83E-09	Ce-141	2.55E-06	Ce-141	3.79E-06
		Ce-141	1.70E-09	Ce-143	1.13E-06	Ce-143	1.69E-06
		Ce-143	1.38E-09	Ce-144	5.21E-07	Ce-144	1.37E-06
		Ce-144	1.17E-09	Pr-143	7.79E-07	Pr-143	1.16E-06
		Pr-143	1.59E-09	Nd-147	1.06E-06	Nd-147	1.58E-06
		Nd-147	0.00E+00	Np-239	0.00E+00	Np-239	0.00E+00
		Np-239	0.00E+00	Pu-238	0.00E+00	Pu-238	0.00E+00
		Pu-238	0.00E+00	Pu-239	0.00E+00	Pu-239	0.00E+00
		Pu-239	0.00E+00	Pu-240	0.00E+00	Pu-240	0.00E+00
		Pu-240	0.00E+00	Pu-241	0.00E+00	Pu-241	0.00E+00
		Pu-241	0.00E+00	Am-241	0.00E+00	Am-241	0.00E+00
		Am-241	0.00E+00	Cm-242	0.00E+00	Cm-242	0.00E+00
		Cm-242	0.00E+00	Cm-244	0.00E+00	Cm-244	0.00E+00
		Cm-244	0.00E+00				

ZONE 3							
15-Sep							
		DRINKING WATER		PRODUCE		LEAFY VEGETABLE	
MILK	SAMPLE		Sample		Sample		Sample
	CONC		Analysis,		Analysis,		Analysis,
	(uCi/l)	Nuclide	(uCi/l)	Nuclide	(uCi/kg)	Nuclide	(uCi/kg)
I-131	0.00E+00	I-131	0.00E+00	I-131	0.00E+00	I-131	0.00E+00
CS-134	2.65E-06	I-132	0.00E+00	I-132	0.00E+00	I-132	0.00E+00
CS-137	1.54E-06	I-133	0.00E+00	I-133	0.00E+00	I-133	0.00E+00
SR-90	1.47E-10	Rb-86	3.62E-06	Rb-86	2.41E-05	Rb-86	3.62E-05
SR-89	3.27E-09	Cs-134	4.31E-06	Cs-134	2.87E-03	Cs-134	4.31E-03
		Cs-136	4.63E-06	Cs-136	3.09E-03	Cs-136	4.63E-03
		Cs-137	2.50E-06	Cs-137	1.67E-03	Cs-137	2.50E-03
FORAGE		Te-127	1.54E-08	Te-127	1.03E-05	Te-127	1.54E-05
		Te-129	2.40E-08	Te-131	1.60E-05	Te-131	2.40E-05
I-131	0.00E+00	Te-131	1.70E-08	Te-132	1.14E-05	Te-132	1.70E-05
CS-134	1.44E-08	Te-132	3.94E-07	Sb-127	2.63E-04	Sb-127	3.94E-04
CS-137	8.34E-09	Sb-127	0.00E+00	Sr-90	0.00E+00	Sr-90	0.00E+00
Sr-90	7.99E-13	Sr-90	2.40E-10	Sr-89	1.60E-07	Sr-89	2.40E-07
Sr-89	1.77E-11	Sr-89	5.32E-09	Ba-140	3.55E-06	Ba-140	5.32E-06
		Ba-140	5.32E-09	La-140	3.55E-06	La-140	5.32E-06
DEPOSITION		Mo-99	1.06E-06	Mo-99	7.10E-04	Mo-99	1.06E-03
		Ru-103	7.45E-10	Ru-103	4.97E-07	Ru-103	7.45E-07
I-131	0.00E+00	Ru-106	2.24E-10	Ru-106	1.49E-07	Ru-106	2.24E-07
CS-134	2.16E-08	Rh-105	0.00E+00	Rh-105	0.00E+00	Rh-105	0.00E+00
CS-137	1.25E-08	Co-58	0.00E+00	Co-58	0.00E+00	Co-58	0.00E+00
Sr-90	1.20E-12	Co-60	0.00E+00	Co-60	0.00E+00	Co-60	0.00E+00
Sr-89	2.66E-11	Y-90	4.79E-10	Y-90	3.19E-07	Y-90	4.79E-07
		Y-91	7.45E-10	Y-91	4.97E-07	Y-91	7.45E-07
		Zr-95	8.52E-10	Zr-95	5.68E-07	Zr-95	8.52E-07
		Zr-97	0.00E+00	Zr-97	0.00E+00	Zr-97	0.00E+00
		Nb-95	8.52E-10	Nb-95	5.68E-07	Nb-95	8.52E-07
		La-140	1.92E-09	Ce-141	1.28E-06	Ce-141	1.92E-06
		Ce-141	8.52E-10	Ce-143	5.68E-07	Ce-143	8.52E-07
		Ce-143	6.92E-10	Ce-144	4.61E-07	Ce-144	6.92E-07
		Ce-144	5.86E-10	Pr-143	3.90E-07	Pr-143	5.86E-07
		Pr-143	7.99E-10	Nd-147	5.32E-07	Nd-147	7.99E-07
		Nd-147	0.00E+00	Np-239	0.00E+00	Np-239	0.00E+00
		Np-239	0.00E+00	Pu-238	0.00E+00	Pu-238	0.00E+00
		Pu-238	0.00E+00	Pu-239	0.00E+00	Pu-239	0.00E+00
		Pu-239	0.00E+00	Pu-240	0.00E+00	Pu-240	0.00E+00
		Pu-240	0.00E+00	Pu-241	0.00E+00	Pu-241	0.00E+00
		Pu-241	0.00E+00	Am-241	0.00E+00	Am-241	0.00E+00
		Am-241	0.00E+00	Cm-242	0.00E+00	Cm-242	0.00E+00
		Cm-242	0.00E+00	Cm-244	0.00E+00	Cm-244	0.00E+00
		Cm-244	0.00E+00				

SECTION 9.0

CONTROLLER ASSIGNMENTS AND INSTRUCTIONS

<u>Subsections</u>	<u>Page</u>
CCNTROLLER PHONE NUMBERS	9.1
CONTROLLER ASSIGNMENTS	9.2
CONTROLLER INSTRUCTIONS	9.4
PLAYER COMMENT/PIR FORMS	9.7
EVALUATOR LOG SHEETS	9.9

CONTROLLER PHONES

CONTROLLER POSITIONS	NAME	PHONE NUMBER
DRILL LEAD	Ken Thrall	Ext. 5805/4509
Simulator Operator	Ron Falkenstein	Ext. 5112
Control Room Lead (Simulator)	George Smith	Ext. 5112
TSC/OSC Lead	Dennis Moseby	Ext. 4509
EOF Lead	Jeanne Dagenette	Ext. 5124/5130
JRMT Vehicles		
Vehicle 1024		(316) 437-6609
Vehicle 1042		(316) 437-6614
Vehicle 1043		(316) 437-6613
State vehicle		(913) 221-2814/ (913) 221-6788
Security Lead	Montie McKinney	Ext. 4999/5376
Information Clearinghouse Lead	Michelle Gifford	(913) 267-0669

From a Roim single line phone:					
To Transfer:	Flash	Dial 2nd #	Flash	Announce Caller	Hang-up
To Conference:	Flash	Dial 2nd #	Flash	(can repeat up to 5 times)	

HPN should call Ext. 4430. If contact can not be made, call 5805.

ENS should call Ext. 4504. If contact can not be made, call 5805.

Phone team controllers/evaluators should call (316) 364-4031.

<u>CONTROLLER ASSIGNMENTS</u>			
<u>ASSIGNMENT</u>	<u>NAME</u>	<u>EVALUATOR</u>	<u>CONTROLLER</u>
Drill Lead Controller	Ken Thrall		
CR (Simulator) Controller		Bob Evenson	Bob Evenson
CR HP / Chemistry		Ralph Logsdon	Tim East
CR Communications		Nyla Eccles	Nyla Eccles
CR Plant Teams		SIM. BOOTH	SIM. BOOTH
Security		Montie McKinney	Montie McKinney
TSC Lead Controller	Sheila Teal		
TSC Dose Assessment and Field Team Control		Steve Henry	Steve Henry
TSC Engineering		*****	Mark Williams
TSC Communications		Mike Mitchell	Mike Mitchell
TSC/OSC Health Physics		John Schepers	Mike Kerving
TSC/OSC Onsite Teams		Dwight Geralts Earl Freeman Clarence Rich Bruce Kayser Rick Rietmann	Dwight Geralts Earl Freeman Clarence Rich Bruce Kayser Rick Rietmann
PASS Team		James Knapp	James Knapp
Offsite Monitoring Teams		Bob Stennet Rick Vilander Curtis Kramer Joyce Ziesenis	Bob Stennet Rick Vilander Curtis Kramer Joyce Ziesenis
EOF Lead Controller	Jeanne Dagenette		
EOF Dose Assessment		Ralph Logsdon	Tim East
EOF Field Team Control		Ralph Logsdon	Tim East
EOF Communications		Nyla Eccles	Nyla Eccles
Lead Public Information	Michelle Gifford		
Information Clearinghouse		*****	Carol Crotts
Media Release Center		Bob Compton	Kevin Winters

CONTROLLER ASSIGNMENTS

<u>ASSIGNMENT</u>	<u>NAME</u>	<u>EVALUATOR</u> <u>TEAM E</u>	<u>CONTROLLER</u> <u>TEAM B</u>
HPN		NRC #	NRC #
ENS		NRC #	NRC #
County		Brian Winzenried	Brian Winzenried
State EOC		Ken Craighead	Ken Craighead

FAKE MEDIA AND PHONE TEAM CONTROLLERS

<u>ASSIGNMENT</u>	<u>EVALUATOR</u>	<u>CONTROLLER</u>
MEDIA		Steve Boyce
MEDIA		*****
MEDIA		Bill Muilenburg
MEDIA		Dave Claridge
MEDIA		Terry Riley
MEDIA		Terry Damashek
MEDIA		Susan McGrath
MEDIA		Jackie Harder
MEDIA		Toni Weatherford
MEDIA		Ron Falkenstein
PHONE TEAM		Beverly Clifton
PHONE TEAM		Marcia Kanagy
PHONE TEAM		Roger Moore
PHONE TEAM		Randy Neill
PHONE TEAM		Chris Chaney
PHONE TEAM		Scott Ferguson
PHONE TEAM		John Fletcher
PHONE TEAM		Linda Mingle

The controllers are responsible for the following functions during this training drill:

1. Providing drill messages and scenario data to the players.
2. Prompting or initiating certain actions in the developing drill. Because this is a training drill, controllers should interact with the players whenever necessary to ensure that any mistakes or omissions are caught and corrected during drill play.
3. Provide significant input to the drill critique process.

This subsection provides instructions which are applicable to all controllers as well as instructions specific to the following controller assignments:

1. Drill Lead Controller
2. Facility Lead Controller
3. Facility Support Controllers, e.g., TSC Dose Assessment, OSC ERDC Teams, EOF Communications.

CONTROLLER INSTRUCTIONS

General

- A. Controllers shall pre-position themselves in the appropriate emergency response facility no later than 30 minutes prior to the commencement of drill activities.
- B. Controllers must comply with instructions from the Drill Lead Controller.
- C. Prior to the commencement of drill activities, controllers shall test telecommunications and synchronize watches with the Drill Lead Controller.
- D. Controller messages, specifically scenario and public information messages, must be approved by the Facility Lead Controller prior to issuance.
- E. Special messages and messages designated as contingency must be approved by the Drill Lead Controller prior to issuance.
- F. Information regarding scenario events or data must only be provided upon request from the appropriate players.
- G. Information regarding scenario events or data must not be provided prior to the time noted on the message or data sheets.
- H. **Controllers will ensure that players do not use radios in Area 5 of the plant.**

Communications

- A. GAI-tronics will be operable from the simulator. Channel 5 shall be used for drill communications, and the phrase "This is a drill" MUST be used to distinguish drill play from normal operating traffic.
- B. The following radio channels have been cleared for drill use:
 - Channel 1: radio checks
 - Channel 2: in-plant teams
 - Channel 4: field teams

CONTROLLER INSTRUCTIONS

Drill Lead Controllers shall

1. Provide for the overall management and technical direction of the controller team.
2. Monitor the progress of the drill to ensure that the scenario develops in an orderly and coordinated manner.
3. Coordinate the issuance of drill messages with the other members of the controller team.
4. Approve the initiation of changes if an alteration in the schedule or sequence of events in the scenario should occur.
5. Temporarily freeze play after simulator failure. The Drill Lead Controller will communicate with all Lead Facility Controllers to ensure that play resumes at the same time with accurate data. The Drill Lead Controller shall determine if further play is simulator or hard-copy-driven.


Note: Only the Drill Lead Controller may authorize such activities as described above.

6. Provide for sufficient communications with the other members of the controller team.
7. Maintain a log of all major player actions, scenario-driven activities, alterations in scenario sequence of events, and other pertinent data or information; (include a list of deficiencies, weaknesses, improvement items and other observations if you are also acting as an evaluator).

CONTROLLER INSTRUCTIONS

Facility Lead Controllers shall:

1. Coordinate with the Drill Lead Controller on the issuance of drill messages within the assigned facility, and in case of a simulator failure.
2. Monitor the data being received and released from the facility to ensure consistency with the scenario.
3. Maintain a log of all major player actions, scenario-driven activities, alterations in scenario sequence of event., and other pertinent data or information. (Include a list of deficiencies, weaknesses, improvement items, and other observations if you are also acting as an evaluator).
4. Supervise the facility support controllers.
5. Collect all logs and paperwork generated by facility support controllers and players.
6. Ensure that all controllers and players are prepared to attend a critique at 1000 in the TLC on the day following the drill. Facility Leads shall request that the players spend approximately 15 minutes after the drill to collate suggested E-Plan program improvements for discussion during the critique.


	PERFORMANCE IMPROVEMENT REQUEST INITIATION	PI ____ PAGE __ of __

A. Describe the Problem, Concern, Condition, or Recommendation

- Consider:
- 1) consequences or potential consequences
 - 2) generic implications
 - 3) reference documents
 - 4) operability

B. Describe Any Immediate Actions Taken (if applicable)

C. Initiator/Mail Stop: _____ **Date:** _____ **Phone:** _____

	PERFORMANCE IMPROVEMENT REQUEST INITIATION	PI ____ PAGE __ of __
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A. Describe the Problem, Concern, Condition, or Recommendation

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 - 4) operability

B. Describe Any Immediate Actions Taken (if applicable)

C. Initiator/Mail Stop: _____ Date: _____ Phone: _____

CONTROLLER CHECK LIST

Was the TSC, IC/MRC, EOF activated in an adequate amount time (Note amount of time required)?

Was the TSC, IC/MRC, EOF staffed with the proper number of positions (Note any missing positions)?

Was communication of data to/from the group timely and accurate?

Was the amount of data brought to the group sufficient?

Was the data generated within the group transferred to the appropriate organizations?

Were notifications to outside organizations timely and accurate?

Were dose assessments timely?

Were assumptions for dose assessment reasonable?

Were PARs timely and consistent with the guidelines?

Was accident assessment at the Control Room, TSC and if appropriate, the EOF timely and accurate?

CONTROLLER CHECK LIST

Was accident classification at the Control Room, TSC and if appropriate, the EOF timely and accurate?

At the EOF, was interaction with offsite officials/agencies acceptable to those agencies?

Was assistance and support to the Control Room from the TSC/OSC adequate?

Were briefings of onsite teams adequate?

Was dispatch of onsite teams well coordinated?

Was data regarding onsite teams updated on the status boards?

Were facility mission priorities properly identified and clearly communicated to all personnel within the facility?

Did the offsite field teams adequately define the plume edges?

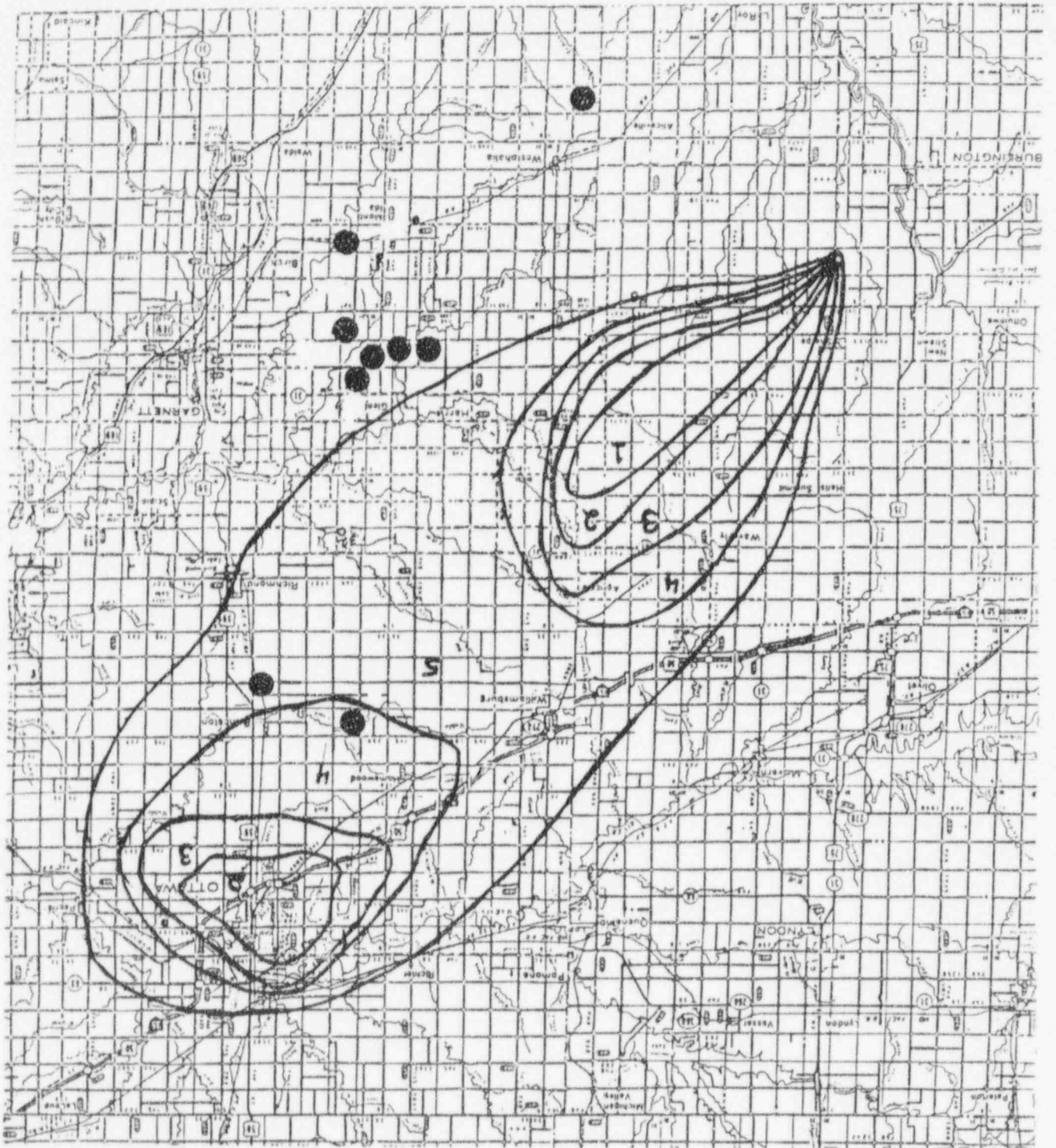
Did the offsite field teams maintain their dose ALARA?

CONTROLLER CHECK LIST

Did the offsite field teams obtain centerline data?

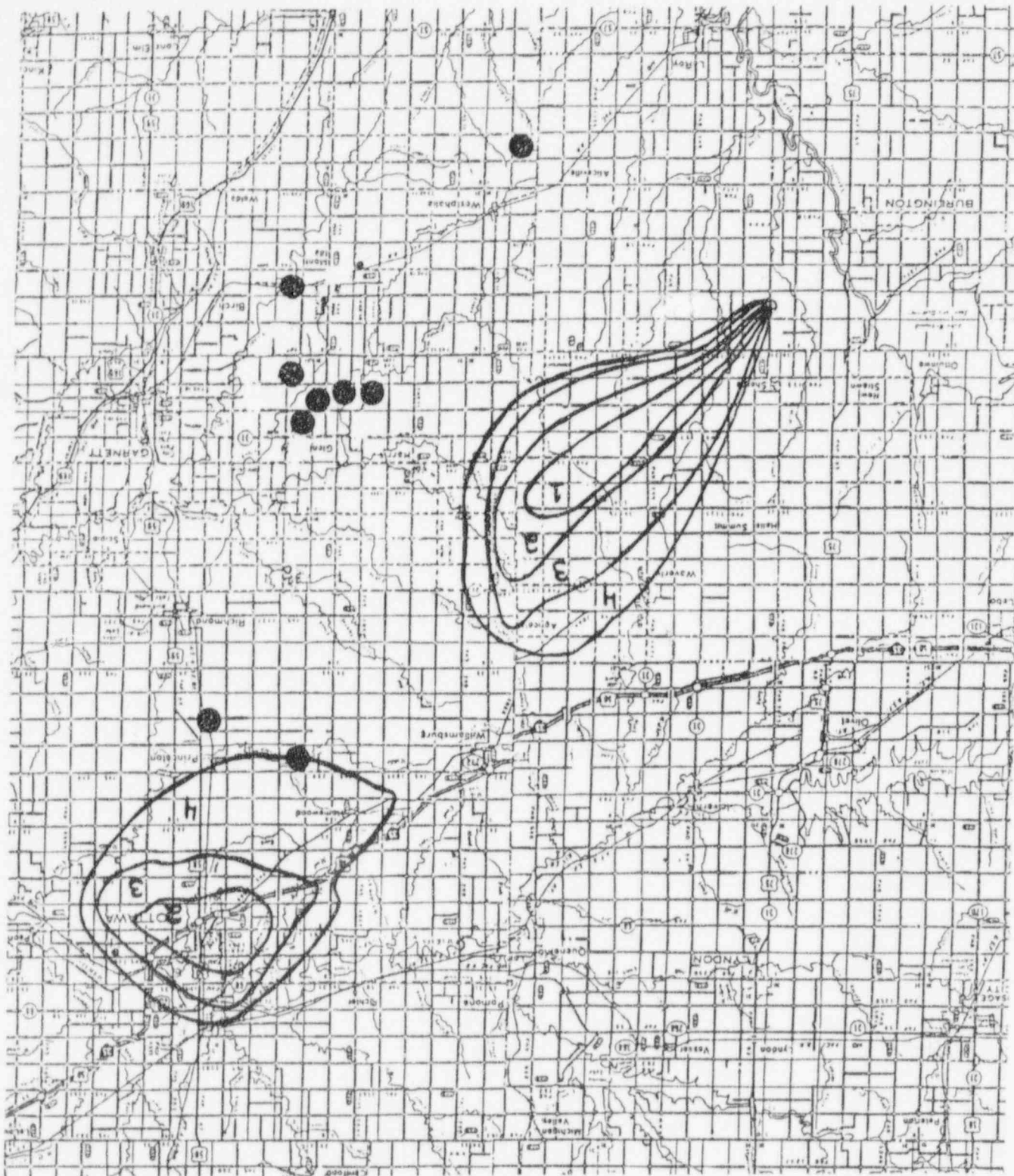
Was release of information to the public/media timely and accurate?

Was release of information to the public/media convincing?

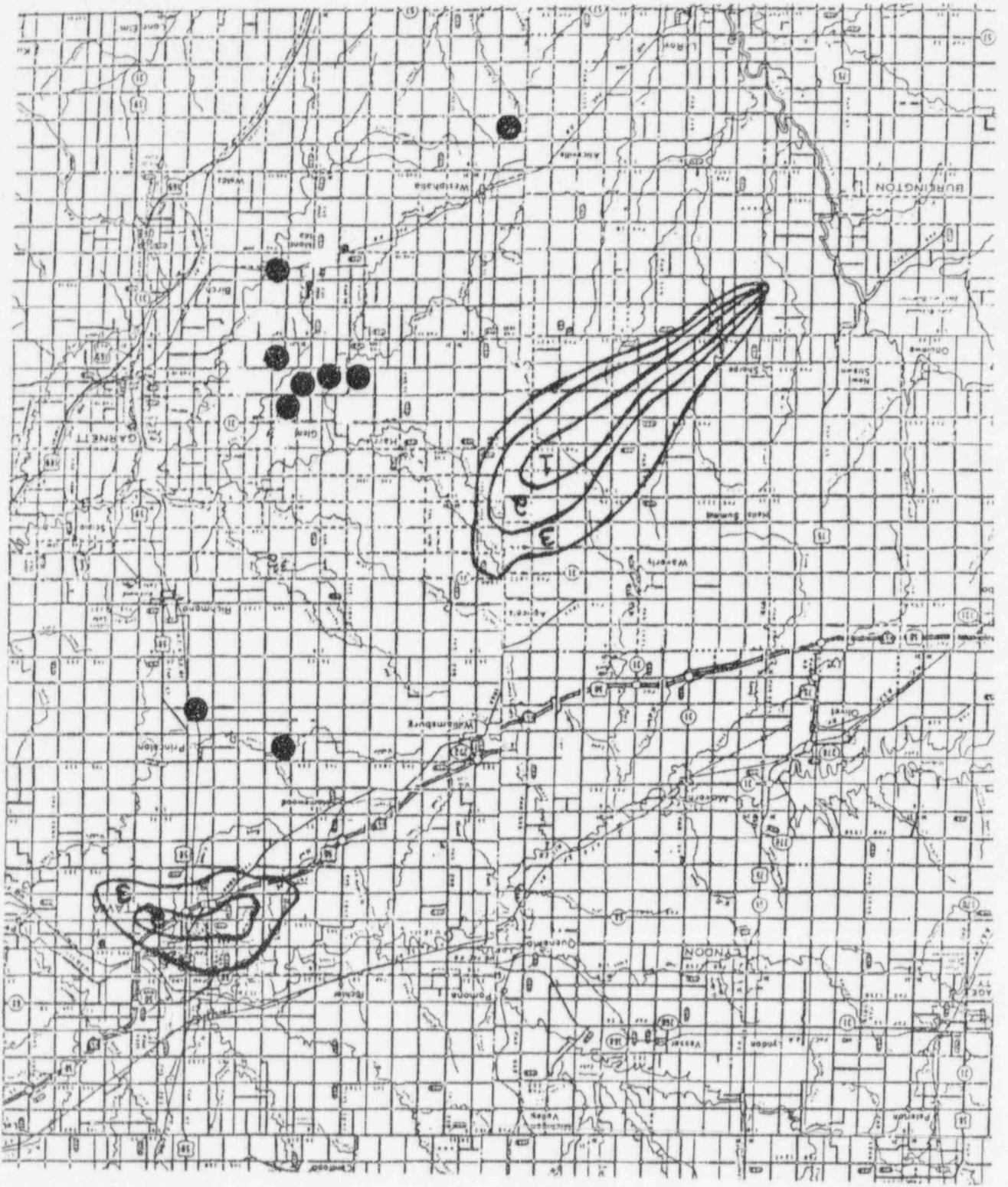


INGESTION PATHWAY
1 DAY





7 DAYS
INGESTION PATHWAY



INGESTION PATHWAY
30 DAYS

