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Ref: 10CFR50 App. E

CPSES-200301948
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File # 10013, RP-18

September 19, 2003

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

**SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES)
DOCKET NOS. 50-445 AND 50-446
TRANSMITTAL OF THE CPSES 2003 GRADED EMERGENCY
PREPAREDNESS EXERCISE SCENARIO**

REF: TXU Energy Letter, logged TXX-03148, from C. L. Terry to USNRC
dated August 20, 2003.

Gentlemen:

Enclosed is one copy of the TXU Energy CPSES Emergency Preparedness Exercise Scenario Manual for the November 19, 2003 Graded Exercise at CPSES. The exercise objectives and extent of play guidelines were previously submitted by the referenced letter above. Please contact Mr. Matt Bozeman at (254) 897-5680 if there are any questions or comments.

NOTE: This transmittal contains Emergency Preparedness exercise information that should NOT be released to the Public Document Room before November 20, 2003.

This communication contains no new licensing basis commitments regarding CPSES Units 1 and 2

DF01

A member of the **STARS** (Strategic Teaming and Resource Sharing) Alliance

Callaway • Comanche Peak • Diablo Canyon • Palo Verde • South Texas Project • Wolf Creek

TXX-03166
Page 2 of 2

Sincerely,

TXU Generation Company LP
By: TXU Generation Management Company LLC,
Its General Partner

C. L. Terry
Senior Vice President and Principal Nuclear Officer

By: Roger D. Walker
Roger D. Walker
Regulatory Affairs Manager

RJK/rk

Enclosure

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Resident Inspectors, CPSES (clo)
R. E. Lantz, Region IV

COMANCHE PEAK
STEAM ELECTRIC STATION

EMERGENCY PREPAREDNESS

2003
GRADED EXERCISE

November 19, 2003

CONFIDENTIAL *until after the exercise*

**TXU ENERGY
COMANCHE PEAK STEAM ELECTRIC STATION
2003 GRADED EXERCISE**

TABLE OF CONTENTS

- 1. INTRODUCTION**
Contains a schedule of events for the conduct and critique of the exercise.
- 2. OBJECTIVES**
Lists the objectives for the exercise.
- 3. GUIDELINES AND EXTENT OF PLAY NOTES**
Outlines general controller rules and expectations, as well as the extent of play of the participants during the exercise and includes offsite extent of play.
- 4. SUBSTITUTE TELEPHONE NUMBERS**
List of substitute participant telephone numbers to be used during the exercise.
- 5. SHIFT TURNOVER INFORMATION**
Operations crew turnover and briefing sheet for the day.
- 6. NARRATIVE SUMMARY**
Provides initial meteorological conditions, and a step-by-step account of major events in the exercise timeline.
- 7. ONSITE EXERCISE GUIDE**
Summary of the onsite events, messages, and anticipated emergency response activities of the participants.
- 8. MESSAGES**
Contains the onsite and offsite exercise messages.
- 9. METEOROLOGICAL CONDITIONS**
Contains meteorological conditions for the extent of the exercise.
- 10. IN-PLANT SURVEY DATA**
Contains in-plant radiological survey information.
- 11. ONSITE SURVEY DATA**
Contains onsite plume exposure information.
- 12. ERDC (MAINTENANCE) CONTROLLER INSTRUCTIONS**
Special instructions to Emergency Repair and Damage Control team controllers.
- 13. FIRE BRIGADE CONTROLLER INSTRUCTIONS**
Special instructions to Fire Drill controllers.

14. **UTILITY ADDRESS/ON SITE CONTROLLER INSTRUCTIONS**
Special instructions and data for the First Aid controllers.
15. **PARTICIPANTS**
List of expected participants by facility and position.
16. **CONTROLLER/EVALUATOR/ROLEPLAYER ORGANIZATION**
List of personnel who will participate as a controller, evaluator, or roleplayer.
17. **LOG SHEETS**
Blank log sheets for controller/evaluator comments.

The following sections are contained within a separate
DATA SUPPLEMENT Manual

1. **OFFSITE SURVEY DATA (TXU ENERGY)**
Contains offsite exposure and contamination information for the utility field teams.
2. **CHEMISTRY DATA and CONTROLLER INSTRUCTIONS**
Contains onsite chemistry information and controller instructions.

TXU-2003-Graded Exercise

The 2003 Graded Exercise will verify the capability of CPSES and offsite agencies to respond to a simulated accident. The exercise will provide training, test the Emergency Response Organization, and identify potential problems in the overall response effort. Selected NRC personnel from the Region IV office will participate in this exercise. Nuclear Regulatory Commission (NRC) and Federal Emergency Management Agency (FEMA) personnel will evaluate this exercise.

The following is a schedule of exercise-related activities:

Thursday, November 6	
2:30 p.m.	Lead Controller, County Controller, Control Room Controller, Simulator Operator Briefing and related Evaluators, EP Conference Room, NOSF
Monday, November 10	
10:00 a.m.	TSC and Security Controller and Evaluator Briefing, EP Conference Room, NOSF
Tuesday, November 11	
10:00 a.m.	Phone Bank Roleplayers Briefing, EP Conference Room, NOSF
1:00 p.m.	News Center (NC) Controller, Evaluator, and Reporter Roleplayer Briefing, EP Conference Room, NOSF
1:00 p.m.	Offsite Survey Team Controller Briefing, EP Conference Room, NOSF
Wednesday, November 12	
1:00 p.m.	EOF Controller and Evaluator Briefing, EP Conference Room, NOSF
Thursday, November 13	
09:00 a.m.	OSC Rad Team Controller and Evaluator Briefing, Outage Control Center
1:00 p.m.	OSC Management Controller and Evaluator Briefing, Outage Control Center
Monday, November 17	
TBA	NRC Entrance Meeting; EP Conference Room, NOSF
Tuesday, November 18	
9:00 a.m.	Scenario briefing and facility tour for NRC Inspection Team; EP Conference Room, NOSF
1:00 p.m.	Offsite Roleplayer, Evaluator, and Controller Briefing, Hood County Annex 1 meeting room, Granbury
Wednesday, November 19	
7:00 a.m.	Controllers, evaluators, and roleplayers should be onsite. Brief on-coming Operations crew in the simulator.
7:30 a.m.	Begin Exercise
~ 3:00 p.m.	Terminate exercise; begin facility critiques
4:30 p.m.	Lead Controller/Evaluator Meeting, EP Staff Area, NOSF

TXU-2003-Graded Exercise

Thursday, November 20	
8:00 a.m.	Offsite Critique, Hood County Annex Auditorium, Granbury
10:00 a.m.	Federal/State/Local Critique, Hood County Annex Auditorium, Granbury
TBA	Public Meeting (NRC and FEMA)
3:00 p.m.	Presentation of exercise findings to Management Review Board; POD Room, MSC
Friday, November 21	
TBD	NRC Exit Meeting, CPE Conference Room 1

A copy of this manual will be provided to selected Controller/Evaluators, and selected observers prior to the exercise.

2.0 OBJECTIVES

The locations where objectives are anticipated to be demonstrated are indicated below. Actual player response, to conditions existing at the time of the exercise, may result in an objective being demonstrated in another facility.

EXERCISE OBJECTIVE	CR	TSC	OSC	EOF	NC	OTHER
1. Using tools such as Plant Computer Satellite Display System screens, Main Control Board, and In-Plant/Onsite/Offsite radiological surveys, reactor coolant system sampling results, ASSESS emergency conditions.	XX	XX				
2. Given abnormal plant conditions and EPP-201, PERFORM an accurate and timely Emergency Classification.	XX	XX				
3. Given that conditions warrant staffing and activation of Emergency Response Facilities (ERFs), ACTIVATE ERFs within procedural time limits.	XX	XX	XX	XX	XX	
4. Given abnormal plant conditions and pertinent procedures or Position Assistance Document (PAD), FORMULATE an accurate and timely Protective Action Recommendation (PAR) for the public and protective measures for CPSES Emergency Workers.				XX		
5. Using instructions given in pertinent procedures and/or Emergency Response Organization (ERO) Position Assistance Documents (PAD), PERFORM pertinent accurate and timely notifications.	XX	XX		XX		
6. Given that the emergency involves potential radiological exposure to emergency workers, PERFORM radiological monitoring of emergency workers' environs and institute protective measures such as continuous accountability of all personnel in affected areas, limit exposure duration, radiological shielding, evacuation, decontamination, and thyroid blocking agents, as necessary, to ensure emergency workers' radiological exposure is maintained ALARA.		XX	XX	XX		

CPSES Exercise
November 19, 2003

EXERCISE OBJECTIVE	CR	TSC	OSC	EOF	NC	OTHER
7. Demonstrate the ability to alert, notify, and update onsite personnel.	XX	XX	XX	XX	XX	
8. Demonstrate the ability to direct, coordinate, prioritize, and control emergency response activities.	XX	XX	XX	XX	XX	
9. Demonstrate the ability to formulate and disseminate accurate and timely emergency information and instructions to the public and media.				XX	XX	
10. Demonstrate the ability to establish and operate Rumor Control.					XX	
11. Demonstrate the adequacy of emergency response facility/workstation, its procedures, equipment, and displays.	XX	XX	XX	XX	XX	
12. Demonstrate the ability to monitor, assess, document, and communicate ONSITE radiological conditions.	XX	XX	XX			
13. Demonstrate the ability to perform accurate and timely dose projections.				XX		
14. Demonstrate the ability to perform In-Plant/Onsite/Offsite Radiological Monitoring activities.			XX	XX		
15. Demonstrate the ability to respond to, administer first aid, and if necessary, transport an injured or contaminated/injured person to a medical facility.						
16. Demonstrate the ability to perform a Shift Change in Emergency Response Facility.						
17. Demonstrate the ability to staff and activate ALTERNATE Emergency Response Facility or Workstation.						
18. Demonstrate the ability to restore emergency response facility or workstation.	XX	XX	XX	XX	XX	
19. Demonstrate the ability to transition from emergency response status to normal work status or to Recovery Organization.						

CPSES Exercise
November 19, 2003

EXERCISE OBJECTIVE	CR	TSC	OSC	EOF	NC	OTHER
20. Demonstrate the ability of emergency response facility members to document their activities and effectively and conclusively critique their emergency response performance.	XX	XX	XX	XX	XX	
21. Demonstrate the ability to institute protecting and controlling Security measures.	XX	XX	XX	XX		

GUIDELINES AND EXTENT OF PLAY NOTES

GENERAL GUIDELINES

The following guidelines have been developed to instruct exercise controllers on the conduct necessary to fulfill the exercise objectives. Where no instructions are provided for a particular objective, actions that would be taken for a real emergency should be taken for the exercise. The intent of the exercise is to demonstrate actual emergency response capabilities as realistically as possible.

1. The exercise controller organization will control all phases of the exercise by passing messages to the participants, either per the timeline or in response to the actions of the participants.
2. The controller and the evaluator organizations are at the direction of the Exercise Lead Controller. Additionally, a Lead Facility Controller will be assigned to each Emergency Response Facility.
3. A controller will be assigned to each location or event where an emergency response is to be demonstrated.
4. The Control Room activities will be conducted in the NOSF Simulator.
 - a. Plant Computer System (SPDS) and PC-11 data in the simulator, OSC, TSC, and EOF will be driven by the simulator.
 - b. At the direction of the Lead Exercise Controller, if the Simulator fails and cannot be returned to service, the exercise may be continued for the other facilities by the CR staff and controllers acting as roleplayers and presenting simulated plant data by means of the established communication channels.
 - c. "All-page" announcements, requiring plant-wide alarms to be sounded, will be coordinated with the actual Control Room as follows:
 - initiating facility will develop the message to be announced, then
 - contact the real Control Room who will actually make the announcement and sound the alarm.
5. The controllers should allow free-play. However, free-play will be stopped under the following conditions:
 - a. if the action taken would prevent an exercise objective from being met or is outside the scope of the exercise.
 - b. if the actions are judged to be unsafe or leading to violations of laws.
 - c. if the actions would degrade systems or equipment, or degrade response to a real emergency.
6. All communications and messages will begin and end with the statement "This is a drill".

GENERAL GUIDELINES continued

7. This exercise will be graded by the NRC and FEMA. Controller/evaluators SHALL NOT coach or correct players during the course of the exercise. Mistakes or areas of

improvement should be noted, with feedback given to the players at the critique following the exercise. Controllers (and controller/evaluators) may interface with participants to clarify free play issues, emergency scenario issues, etc. that do not compromise the scenario. The exercise lead controller should be consulted regarding any clarification.

8. The 15-minute clock for making local emergency notifications is satisfied when the communicator begins reading the contents of the Emergency Notification Message Form to DPS Waco, Somervell County, or Hood County.
9. Participants shall comply with the instructions from the controller organization. If a conflict exists between scenario data and actual data, inform the Facility Lead Controller and wait for further instructions.
10. Controllers/evaluators/roleplayers will be identified by wearing either an arm band, special badge, or vest.
11. This exercise is not intended to demonstrate entry into, or use of, the CPSES Severe Accident Management Guidelines (SAMGs).

SAFETY

1. Each controller and evaluator is responsible to ensure that the exercise is conducted in a safe manner.
2. If a controller or evaluator observes an unsafe exercise activity, stop the activity and notify Exercise Lead Controller.
3. If an actual emergency occurs, the exercise may be terminated at the discretion of the on-shift Shift Manager or the Exercise Lead Controller. All communications concerning an actual emergency will begin and end with "This is not, repeat, not a drill."

ACTIVITIES TO BE SIMULATED (EXTENT OF PLAY)

The following is a list of activities that will be simulated during the exercise. NO OTHER ACTIVITIES WILL BE SIMULATED UNLESS APPROVED BY THE EXERCISE LEAD CONTROLLER.

1. The actions of the Control Room crew will be conducted in the NOSF Simulator. Operations personnel will be pre-positioned in the Simulator when the exercise starts. Additional personnel who report to the Control Room during emergencies will report to the Simulator. Reporting personnel may be pre-positioned in the NOSF.
2. No activities involving actual plant systems, either manipulation or modification are allowed by exercise personnel without explicit permission of the on-duty Shift Manager in the real Control Room.
3. Utility personnel that are not onsite at the time of the exercise will not be notified at home.
4. Pager activation for the exercise will use "drill only" codes.
5. Site evacuation will be simulated. Once the decision to evacuate has been made, a pre-formatted message to simulate the evacuation will be handed to the players. Security should setup roadblock equipment, but traffic will NOT actually be impeded.
6. Accountability will be simulated as follows:
 - a. Facility accountability will be performed in the TSC and OSC only.
 - b. Security sweeps will be conducted by dispatching Officers, but "bullhorn" announcements will NOT be made.
 - c. Security will be required to print a Security Accountability Report. At this point, a Security controller will interject a simulated report and it will be transmitted IAW Security procedures.
7. Emergency repairs or modifications to plant equipment (e.g., temp. cooling of ECCS pumps, breaker replacement, etc) will be simulated. However, all tools, equipment, and procedures required to complete the repairs should be obtained. Every effort should be made by the applicable controller to ensure that needed materials are onhand and are adequate to perform the assigned task.
8. **Radiation posting material and protective clothing, (or other potentially contaminated materials,) will not be used outside the Radiologically Controlled Area (RCA) for the purposes of the exercise. Any use of posting materials and protective clothing, by either onsite or offsite personnel, which is outside of the RCA will be simulated. Evaluators may quiz appropriate personnel regarding the proper use of these items.**

ACTIVITIES TO BE SIMULATED (EXTENT OF PLAY) continued

9. If an air purifying or SCBA respirator is dictated for any team (e.g., Fire Brigade, RP, etc); the respirators will be issued, verified operational, seal checked, and then the facepiece removed. If SCBAs are simulated being used, the controllers should simulate the consumption of air, requiring bottle changeout as appropriate.
10. ERDS will be activated from the TSC, however, the activation may be unsuccessful since the NRC Response Center is not participating in the exercise. No further action is required by the exercise players.
11. Fire Brigade should lay out hoses and other suppression equipment, however, actual water flow and/or suppression system operation will be simulated.
12. Roleplayers and/or recordings will be used for:
 - * Grid Dispatcher
 - * National Weather Service
 - * ENS line
 - * HPN line
 - * Phone Bank
 - * Reporters
 - * Unit 2 Control Room
 - * Any injured persons
 - * Squaw Creek Park staff
 - * Members of the general public
13. Once sufficient personnel have responded to staff the facility, a list of designated players may be given to each facility manager to ensure the designated players are chosen to remain.

STATE OF TEXAS COMANCHE PEAK
2003 EVALUATED EXERCISE
NOVEMBER 19, 2003
EVALUATION AREAS AND EXTENT-OF-PLAY (EOP) AGREEMENT

EVALUATION AREA 1: EMERGENCY OPERATIONS MANAGEMENT

Sub-element 1.a – Mobilization

Criterion 1.a.1: OROs use effective procedures to alert, notify, and mobilize emergency personnel and activate facilities in a timely manner. (NUREG-0654, A.4, D.3, 4, E.1, 2, H.4)

Locations: State Emergency Operation Center (EOC), Disaster District 6A EOC (Waco), Bureau of Radiation Control (BRC) at Comanche Peak Steam Electric Station (CPSES) Emergency Operations Facility (EOF), Joint Information Center (JIC) / Emergency News Center (ENC), Hood County EOC, and Somervell County EOC.

Extent of Play: Texas Department of Health (TDH) personnel will pre-stage at the BRC staging area in Granbury. Regardless of the scenario, no facilities/activities will relocate during this exercise. At Site Area or General Emergency, the State EOC will notify agencies, which compose the Emergency Management Council. However, only those agencies on the primary notification list will be requested to send representatives to the State EOC. Four (4) Field Monitoring Teams will be deployed for training purposes. Only (2) teams will be evaluated. All four Field Monitoring Teams will need Department of Public Safety (DPS) escorts. Drill evaluators and controllers may be required to travel in separate vehicles due to space restrictions. Disaster District Committee personnel not stationed at DPS Waco may be pre-staged. To allow for maximum amount of play, JIC/ENC staff will pre-stage in the area. An extra dispatcher will be placed on duty at the Hood and Somervell County Sheriff's office to handle the regular workload.

ARCA's: None

Sub-element 1.b – Facilities

Criterion 1.b.1: Facilities are sufficient to support the emergency response. (NUREG-0654, H)

Locations: State EOC, Disaster District EOC 6A (Waco), BRC at CPSES EOF, JIC/ENC, Hood and Somervell Counties EOC's .

Extent of Play: None

ARCA's: None

Sub-element 1.c - Direction and Control

Criterion 1.c.1: Key personnel with leadership roles for the ORO provide direction and control to that part of the overall response effort for which they are responsible. (NUREG-0654, A.1.d., 2.a., b.)

Locations: State EOC, Disaster District EOC (Waco), BRC at CPSES EOF, Hood and Somervell Counties EOC's.

Extent of Play: None

ARCA's: None

Sub-element 1.d – Communications Equipment

Criterion 1.d.1: At least two communication systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations. (NUREG-0654, F.1., 2.)

Locations: State EOC, Disaster District EOC (Waco), BRC at CPSES EOF, JIC/ENC, Hood and Somervell Counties EOC's, and T/ACP

Extent of Play: Demonstration that at least two communication systems are available.

ARCA's: None

Sub-element 1.e – Equipment and Supplies to Support Operations

Criterion 1.e.1: Equipment, maps, displays, dosimetry, potassium iodide (KI), and other supplies are sufficient to support emergency operations. (NUREG-0654, H., J.10.a.b.e.f.j.k., 11, K.3.a.)

Locations: State EOC, Disaster District EOC (Waco), BRC at CPSES EOF, JIC/ENC, Hood and Somervell Counties EOC's, BRC Field Monitoring Teams, and T/ACP.

Extent of Play: Instrument calibration will be specific to each manufacturers specification. Equipment not required to demonstrate exercise objectives may be left at the staging area to allow for additional space within the vehicles. The availability of silver zeolite filters will be demonstrated however, charcoal filters will be authorized in lieu of silver zeolite filters for exercise purposes. The ability to don and remove anti-contamination clothing will be demonstrated at an agreed upon time and location prior to or after the exercise. Each graded field team will demonstrate proficiency in the use of anti-contamination clothing as required by procedure.

ARCA's: None

EVALUATION AREA 2: PROTECTIVE ACTION DECISION-MAKING

Sub-element 2.a – Emergency Worker Exposure Control

Criterion 2.a.1: OROs use a decision-making process, considering relevant factors and appropriate coordination, to insure that an exposure control system, including the use of KI, is in place for emergency workers including provisions to authorize radiation exposure in excess of administrative limits or protective action guides. (NUREG-0654, K.4.)

Locations: BRC at CPSES EOF, Hood and Somervell Counties EOC's.

Extent of Play: If the scenario does not warrant a discussion on either the authorization to administer KI or emergency worker (EW) exposure exceeding administrative limits, then the criteria will be accomplished through an interview with the evaluator. Decision making for KI and EW exposure level above administrative limits is done at the EOF and the local EOC. According to the State policy, KI is not considered for the general public.

ARCA's: None

Sub-element 2.b. - Radiological Assessment and Protective Action Recommendations and Decisions for the Plume Phase of the Emergency

Criterion 2.b.1: Appropriate protective action recommendations are based on available information on plant conditions, field monitoring data, and licensee and

ORO dose projections, as well as knowledge of on-site and off-site environmental conditions. (NUREG-0654, I.8., 10., 11. and Supplement 3.)

Locations: BRC at CPSES EOF

Extent of Play: According to the State policy, KI is not considered for the general public.

ARCA's: None

Criterion 2.b.2: A decision-making process involving consideration of appropriate factors and necessary coordination is used to make protective action decisions (PADs) for the general public (including the recommendation for the use of KI, if ORO policy). (NUREG-0654, J.9., 10.m)

Locations: Hood and Somervell Counties EOC's.

Extent of Play: The protective actions that result from this decision-making process will not be implemented. No member of the public will be relocated. The decision to authorize administration of KI to institutionalized persons (these are not emergency workers) is recommended at the EOF and implemented by County Judge authority. (According to the State policy, KI is not considered for the general public)

ARCA's: None

Sub-element 2.c - Protective Action Decisions Consideration for the Protection of Special Populations

Criterion 2.c.1: Protective action decisions are made, as appropriate, for special population groups. (NUREG-0654, J.9., 10.c.d.e.g.)

Locations: BRC at CPSES EOF, Hood County and Somervell County EOC's.

Extent of Play: Protective actions for special needs individuals will be considered at the County EOC's; however, actual demonstration of protective actions will not be performed. Hood and Somervell County EOC staff will demonstrate this objective through discussion and showing the evaluator a roster of special needs individuals in the 10-mile emergency planning zone.

ARCA's: None

EVALUATION AREA 3: PROTECTIVE ACTION IMPLEMENTATION

Sub-element 3.a – Implementation of Emergency Worker Exposure Control

Criterion 3.a.1: The OROs issue appropriate dosimetry and procedures, and manage radiological exposure to emergency workers in accordance with the plans and procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart. (NUREG-0654, K.3.)

Locations: BRC Field Monitoring Teams, T/ACP, School Bus, BRC at CPSES EOF, Hood County and Somervell County EOC's..

Extent of Play: Personnel located at facilities outside the 10-mile EPZ and not reporting to a location within the 10-mile EPZ will not be issued dosimetry as per County plans and procedures. Dosimetry for the bus driver will only be issued in the event he/she becomes an EW. Request the option to correct issues immediately (Correction-on-the-spot) as defined in FEMA Policy Paper, Strategic Review Steering Committee, Initiative 1.5, Correct Issues immediately, effective March 31, 2000,

signed by Kay C. Goss, CEM, Associate Director for Preparedness, Training and Exercises. Correction-on-the-spot will be considered at these locations insuring that exercise play is not interrupted.

ARCA's: None

Sub-element 3.b – Implementation of KI Decision

Criterion 3.b.1: KI and appropriate instructions are available should a decision to recommend use of KI be made. Appropriate record keeping of the administration of KI for emergency workers and institutionalized individuals (not the general public) is maintained. (NUREG-0654, E. 7., J. 10. e., f.)

Locations: BRC Field Monitoring Teams, T/ACP, BRC at CPSES EOF, Hood County and Somervell County EOC's.

Extent of Play: Distribution of KI to EW will be simulated by using copies of the Patient Packet Insert to represent actual KI supplies. EW will simulate actual ingestion of KI. The use of KI by the general public is not recommended in the State of Texas, therefore, KI will not be issued to the general public or institutionalized individuals.

ARCA's: None

Sub-element 3.c – Implementation of Protective Actions for Special Populations

Criterion 3.c.1: Protective action decisions are implemented for special populations other than schools within areas subject to protective actions. (NUREG-0654, E.7., J.9., 10.c.d.e.g.)

Locations: Hood and Somervell Counties EOC's.

Extent of Play: Protective actions for special needs individuals will be considered at the County EOC; however, actual demonstration of protective actions will not be performed. Contact with mobility impaired and transportation dependant will be simulated. Contact with transportation providers may be demonstrated.

ARCA's: None

Criterion 3.c.2: OROs/School officials decide upon and implement protective actions for schools. (NUREG-0654, J.10.c., d., g.)

Locations: School Representative at EOC's and School personnel.

Extent of Play: A driver will travel to the school being evacuated and will discuss the travel route to the relocation center and demonstrate communications. No actual transportation will take place and the demonstration will terminate at the school. This demonstration will be conducted out of sequence from the remainder of the exercise. A school official will be available for interview. For the exercise, one school, as determined by the EOC, will be notified by telephone to demonstrate this objective. Correction-on-the-spot will be considered at this location at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to insure that exercise play is not interrupted.

ARCA's: None

Sub-element 3.d. – Implementation of Traffic and Access Control

Criterion 3.d.1: Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel. (NUREG-0654, J.10.g., j., k.)

Locations: Hood and Somervell Counties EOC's, and T/ACP's.

Extent of Play: A controller inject during the exercise will identify one (1) T/ACP location per county. The controller inject will not interfere with the Traffic and Access Control Point decision-making process. After the two (2) T/ACP's locations are identified they will be relocated to Squaw Creek Park. Both of the T/ACP's, one per county, will be evaluated. Any contacts with emergency service providers (i.e. wreckers) will be simulated but not logged. The law enforcement officer assigned to the Traffic and Access Control Point will be briefed at the BRC Staging Area, and dispatched to the agreed upon location from the EOC. Correction-on-the-spot will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to insure that exercise play is not interrupted

ARCAs: None

Criterion 3.d.2: Impediments to evacuation are identified and resolved. (NUREG-0654, J.10., k.)

Locations: Hood and Somervell Counties EOC's

Extent of Play: Controller interject will be used to initiate the demonstration for this criterion.

ARCA's: None

Note: All injects need to be submitted to the scenario group at CPSES for inclusion in the package

EVALUATION AREA 4: FIELD MEASUREMENT AND ANALYSIS

Sub-element 4.a – Plume Phase Field Measurement and Analyses

Criterion 4.a.1: The field teams are equipped to perform field measurements of direct radiation exposure and to sample airborne radioiodine and particulates. (NUREG-0654, H.10; I.7, 8, 9).

Locations: BRC Field Monitoring Teams.

Extent of Play: Any attempts by Field Monitoring Teams to locate (and measure) areas of maximum exposure will be limited in compliance with BRC Procedure 7, Personnel Dosimetry and Exposure Control. Equipment not required to demonstrate exercise objectives may be left at the staging area to allow for additional space within the vehicle. Drill evaluators and controllers may be required to travel in separate vehicles due to space restrictions.

ARCA's: None

Criterion 4.a.2: Field teams are managed to obtain sufficient information to help characterize the release and control radiation exposure. (NUREG-0654, H.12; I.8, 11; J.10.a).

Locations: BRC at CPSES EOF.

Extent of Play: BRC Field Monitoring Teams will not traverse the plume, and only CPSES Field Teams will take measurements at the centerline of the plume.

ARCA's: None

Criterion 4.a.3: Ambient radiation measurements are made and recorded at appropriate locations, and radioiodine and particulate samples are collected.

Teams will move to an appropriate low background location to determine whether any significant amount of radioactivity has been collected on the sample media. (NUREG-0654, I.9)

Locations: BRC Field Monitoring Teams.

Extent of Play: Field analysis of air samples will be demonstrated at an agreed upon time and location prior to or after the exercise. Each graded field team will at least once demonstrate proficiency using field analysis techniques. Activated charcoal filters will be used in lieu of Silver Zeolite filters for exercise purposes. Any attempts by Field Monitoring Teams to locate (and measure) areas of maximum exposure will be limited in compliance with BRC Procedure 7, Personnel Dosimetry and Exposure Control. The ability to don and remove anti-contamination clothing will be demonstrated at an agreed upon time and location prior to or after the exercise. Each graded field team will at least once demonstrate proficiency in the use of anti-contamination clothing as required by procedure. Correction-on-the-spot will be considered at these locations insuring that exercise play is not interrupted.

ARCA's: None

EVALUATION AREA 5: EMERGENCY NOTIFICATION & PUBLIC INFORMATION

Sub-element 5.a – Activation of the Prompt Alert and Notification System

Criterion 5.a.1: Activities associated with primary alerting and notifications of the public are completed in a timely manner following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current FEMA REP guidance. (10 CFR Part 50, Appendix E & NUREG-0654, E. 1., 4., 5., 6., 7.)

Locations: Hood and Somervell Counties EOC's, and Radio Station (WBAP).

Extent of Play: Emergency Alert System (EAS) messages will be sent to the EAS radio stations; however broadcasts will be simulated. Siren activation will be simulated and discussed. Route alerting may be discussed but will not be demonstrated. There are no FEMA approved exception areas. This evaluation area is included for backup alert and notification only.

ARCA's: None

Sub-element 5.b – Emergency Information and Instructions for the Public and the Media

Criterion 5.b.1: OROs provide accurate emergency information and instructions to the public and the news media in a timely manner. (NUREG-0654, E. 5.,7., G.3.a., G.4,a.,b.,c.)

Locations: State EOC, JIC/ENC, Hood and Somervell Counties EOC's.

Extent of Play: Messages will not be broadcast over commercial radio or television. Four (4) telephones will be staffed at the Emergency News Center for the public inquiry hotline demonstration. A phone cell and mock media will inject rumors.

ARCA's: None

GENERAL EXTENT-OF-PLAY (EOP):

1. With regard to last minute additions or changes to any previously approved Extent-of-

Play, all suggested changes must be forwarded to the RAC Chair for approval.

2. The goal of all offsite response organizations (ORO) is to protect the health and safety of the public. This goal is achieved through the execution of appropriate plans and procedures. It is recognized that situations may arise that could limit the organizations in the exact execution of these plans and procedures.
3. In the event of an unanticipated situation, OROs are permitted to exercise flexibility in the implementation of their plans and procedures in order to successfully achieve the objective of protection of public health and safety and protection of the environment.
4. As a statement of fact, no ORO will deliberately deviate from its plans and procedures with the intent of avoiding responsibility.
5. Correction-on-the-spot is defined in FEMA Policy Paper, Strategic Review Steering Committee, Initiative 1.5, Correct Issues immediately, effective March 31, 2000, signed by Kay C. Goss, CEM, Associate Director for Preparedness, Training and Exercises.

CPSES RED Team Exercise
Narrative Summary

This scenario is for Comanche Peak Steam Electric Station Unit 1. The scenario consists of an aircraft crash onsite, followed by a leaking seal and fuel failure. The main event is a large break LOCA with a failure of the containment resulting in a release of radioactive material to the environment. This exercise will be evaluated by the NRC and will involve NRC, Texas Department of Health, and local government responders.

The exercise is scheduled to begin at 7:30 a.m., Wednesday, November 19, 2003.

METEOROLOGICAL CONDITIONS

Temperature is 70 degrees with wind out of the westsouthwest at 8 mph. Temperature will increase to about 75 degrees by the end of the exercise. Wind speed will be light to moderate throughout the day.

EVENT SUMMARY

- A small aircraft crashes in the protected area east of the fuel building. The pilot is injured and requires medical assistance. This condition warrants declaration of a NOTIFICATION OF UNUSUAL EVENT based on EPP-201 chart 9, block C – t and block E - f = NOUE..
- A 75-gpm reactor coolant system (RCS) leak occurs inside containment.
- ALERT declared due to RCS leakage > 50 gpm based on EPP-201 Chart 2, block A – t, block B – t, block C – f, block F – f = ALERT. Actions commensurate with an ALERT should begin. Operations crew may begin plant shutdown..
- Failed fuel is indicated on the failed fuel; monitor (FFL-160) shows 200 uCi/cc.
- A SITE AREA EMERGENCY is warranted due to the RCS leak and indications of failed fuel based on EPP-201, Chart 2; block A – t, block B – t, block C – f, block F – t = SITE AREA EMERGENCY. Expect operations crew to begin reactor shutdown and the ERO to take actions warranted by procedure for a SAE. **Site evacuation will not be demonstrated.**
- Large break loss of coolant accident occurs with an ATWT. Upon RCB pressure reaching 50 psig, conditions warrant declaration of a GENERAL EMERGENCY.
- A GENERAL EMERGENCY is warranted due to the RCS leak, indications of failed fuel, and based on EPP-201, Chart 2; block A – t, block B – t, block C – t, block D – t, block E – t = GENERAL EMERGENCY. Expect the ERO to take actions warranted by procedure for a GE. Initial protective action recommendation expected to be based on plant conditions and to be 'evacuate zone 2A.'
- A person in the vicinity of the equipment hatch reports hissing and steam coming from the equipment hatch. A subsequent protective action recommendation expected to be based on radiological conditions and to be 'evacuate zone 2A and affected sectors to 5 miles.'
- Terminate the exercise around 1400.

7.0 Onsite Exercise Guide

TIME	MESSAGE NUMBER	FROM	TO	LOCATION	SUMMARY	RESPONSE	NOTES
0700	PRE-EX	Exercise Lead Controller	"all" facilities		Send pre-exercise message to list 1 and list 3	None	
0725	1	CR Lead Controller	Shift Manager	Simulator	Brief the crew		All events refer to Unit 1.
0730				Simulator	Initial conditions established for the operating crew.		Ensure crew has had a chance to review the control boards.
0735				Protected Area East of the fuel building	A small aircraft crashes within the protected area. The pilot needs medical attention.	This event warrants declaration of a Notification of Unusual Event. Implement appropriate procedures.	EPP-201, Chart 9, block C - t, block E- f = NOUE
0750	2	Simulator Lead Controller	Shift Manager	Simulator	CONTINGENCY MESSAGE: Conditions warrant declaration of a NOUE		Inform the Exercise Lead Controller if this message is passed.
0845				Simulator	RCS leak begins in the vicinity of the reactor head. Leak size is 75 gallons per minute.	This event warrants declaration of an Alert. Implement the appropriate procedures.	Ref EPP-201, Chart 2, block A - t, block B - t, block C - f, block F - f = ALERT

7.0 Onsite Exercise Guide

0900	3	Simulator Lead Controller	Emergency Coordinator	Simulator	CONTINGENCY MESSAGE: Plant Conditions warrant declaration of an ALERT.		Inform the Exercise Lead Controller if this message is passed.
0920	4	Simulator Lead Controller	TSC Manager	Simulator	CONTINGENCY MESSAGE: The Emergency Coordinator should relocate to the TSC.	Action intended to keep the scenario on the timeline.	The approximate time assumes that the TSC is staffed and ready to activate.
1010	5			Simulator	FFL -160 indicates failed fuel = 200 uCi/cc	Coupled with the RCS leak, conditions warrant a SITE AREA EMERGENCY . Implement the Emergency Plan commensurate with a Site Area Emergency. Evacuation should NOT be performed. Control Room to sound alarm and read message 5.	Ref EPP-201, Chart 2, block A - t, block B - t, block C - f, block F - t, block G - f = SITE AREA EMERGENCY . Pass the site evacuation message after the TSC/EOF Manager has prepared one from his PAD.
1025	6	Facility Lead Controller	Emergency Coordinator	TSC or EOF	CONTINGENCY MESSAGE Plant Conditions warrant declaration of a Site Area Emergency.	Implement the Emergency Plan commensurate with a Site Area Emergency. Evacuation should NOT be performed. Control Room to sound alarm and read message 5.	Inform the Exercise Lead Controller if this message is passed. Pass the site evacuation message after the TSC/EOF Manager has prepared one from his PAD.

7.0 Onsite Exercise Guide

1040				EOF	Accountability within the Protected Area should be complete. All personnel are located.	Security Coordinator should be informed of the results.	See Security Controller instructions for accountability.
1115				Simulator	Large break loss of coolant accident occurs inside containment. The reactor does not trip as required resulting in an ATWT. Within seconds, containment pressure is expected to exceed 50 psig.	These events warrant declaration of a GENERAL EMERGENCY .	Ref EPP-201, chart 2; A - t, B - t, C - t, D - t, E - t = GENERAL EMERGENCY Initial Protective action recommendation based on plant conditions should be 'evacuate 2 mile radius (2A).'
1130	7	Facility Lead Controller	TSC Manager	TSC	CONTINGENCY MESSAGE: The conditions warrant declaration of a GENERAL EMERGENCY .	Implement the Emergency Plan commensurate with a GENERAL EMERGENCY .	Ref EPP-201, chart 2; A - t, B - t, C - t, D - t, E - t = GENERAL EMERGENCY Initial Protective action recommendation based on plant conditions should be 'evacuate 2 mile radius (2A).'
1200	8	Controller	Onsite Survey Team or Nearby ERDC Team	Vicinity of the Unit 1 equipment hatch	Report of hissing sound and steam coming from the equipment hatch. Release in progress..	Update protective action recommendation.	

7.0 Onsite Exercise Guide

>1400	9	Exercise Lead Controller	All	All	The exercise is terminated at the direction of the lead controller.	All personnel should secure exercise activities and prepare for facility de-briefs.	Pass only with permission of the exercise lead controller. All onsite & offsite objectives have been evaluated.
	POST-EX	Exercise Lead Controller	"all" facilities		Send post exercise message to List 1 and List 3.	None.	

8.0 Messages

THIS IS A DRILL

Message 1

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: Phone Bank (Dallas Morning News)

LOCATION: DD_66A EOC, Waco

TIME: 8:42

MESSAGE: This is John Miller with the Dallas Morning News. We have received several reports of unusual activity at the Comanche Peak nuclear plant. Can you tell me if there has been an accident onsite? Please provide me with as much information as possible.

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 2

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: Phone Bank (Waco Morning News)

LOCATION: DISASTER DISTRICT 6A EOC, Waco

TIME: 8:51

MESSAGE: This is Steve Van of the Waco Morning News. I just received a report off the news wire that indicates there has been a possible accident at the Comanche Peak Power Plant. Can you validate that report? If this is true can you provide me with the information on the affected areas?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 3

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: Phone Bank (Johnson County EMC)

LOCATION: DISASTER DISTRICT 6A EOC, Waco

TIME: 9:12

MESSAGE: This is Lee Berk, Emergency Management Coordinator for Johnson County. I have been advised that there is a problem at the Comanche Peak power plant. Would you advise me of the situation so we can determine whether we need to activate our EOC? Is there anything to indicate there been a release of radioactive material? We are having problems with our phone system and may have to use an alternate communication system. The County Judge is on the road and I am having problems getting information to him at present. Are any local residents being evacuated from near the facility?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 4

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: Phone Bank (Alvarado Police Chief)

LOCATION: DISASTER DISTRICT 6A EOC, Waco

TIME: 9:20

MESSAGE: This is Ted Brass, Police Chief, Alvarado. Our Mayor has just told us he wants us to stop all traffic heading eastbound on Hwy 67 and check them for radiation. I have no idea how we can do that. We do not have any radiation testing equipment in the county to do that. Can you send us a couple of pieces of equipment and personnel to check these vehicles?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 5

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: Phone Bank (CNN)

LOCATION: DISASTER DISTRICT 6A, Waco

TIME: 9:35

MESSAGE: This is Gary Weed with the CNN Dallas Bureau. We have dispatched a news team to Hood County to cover a nuclear power plant accident. We are planning to fly a chopper into the area to get some footage and additionally fly to your headquarters in Waco for further interviews. Can you tell me where your offices in Waco are located and give us directions from the airport?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 6

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: Phone Bank (State Representative's Office)

LOCATION: DISASTER DISTRICT 6A EOC, Waco

TIME: 9:45

MESSAGE: This is Russ Lighter with State Representative Jack's office. Our office has received a number of calls from local residents about a possible incident at Comanche Peak Power Plant. I have also seen a breaking news report from CNN stating there was an incident. There were few details in the report. Representative Jack is concerned about his constituents.

- What can you tell us about the incident?
- Were there any casualties? If so, how many.
- Was there a release of radiation?
- Which state agencies do you have responding?
- Has notification been made to all the proper authorities?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 7

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: Phone Bank (Trucker)

LOCATION: DISASTER DISTRICT 6A EOC, Waco

TIME: 10:00

MESSAGE: This is Dee Powder, dispatcher for Buck Trucking, Inc. A couple of our trucks have been stopped short of their delivery points by local law enforcement just east of Glen Rose. Will this road closure be a short-term closure or will it be for an extended period? One of these trucks is carrying perishables and needs to be offloaded in the next few hours. Do I need to turn my trucks around or will they be able to continue soon?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 8

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency
ask for that agency. Read your inject.
B If your inject does not indicate it is for a specific agency, read your
inject to whomever answers the phone in the EOC.

FROM: Phone Bank (Citizen)

LOCATION: DD-66A EOC, Waco

TIME: 10:10

MESSAGE: This is Jody Stem from Granbury. My husband and our children were fishing near Squaw Creek this morning. I just saw a report on CNN that there was an accident at Comanche Peak power plant. Can you tell me if that report was true? If there was an accident would someone on the lake be affected? Is there a warning system to alert people out on the lake?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 9

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: Phone Bank (Fire Department, Hico)

LOCATION: DISASTER DISTRICT 6A EOC, Waco

TIME: 9:57

MESSAGE: This is Chief Russell with the Hico Fire Department. The Mayor wants to detour all traffic coming from the direction of the power plant and run them all through the local car wash or hose them down in some way. Have these vehicles already been checked? Is it really necessary to hose down all those vehicles? I am not sure we have the resources to handle this.

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 10

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: Phone Bank (Centex Cattle Ranchers Assn.)

LOCATION: DISASTER DISTRICT 6A EOC, Waco

TIME: 10:25

MESSAGE: This is Kevin Banks with the Centex Cattleman's Association. We have received several calls from ranchers in Hill, Bosque, Erath, and Palo Pinto trying to line up trucking companies to move their stock to temporary grazing pastures for their cattle. They are worried that their stock will be contaminated by radiation and want to move them now so they won't take a chance of losing their herds. Is there any need to move these cattle? Is there any threat of radiation exposure in these counties?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 11

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: DD-6A Exercise Controller

LOCATION: DISASTER DISTRICT 6A EOC, Waco

TIME: 10:35

MESSAGE: **SIMULATED TLETS MESSAGE FROM ERATH COUNT SO:** Hood County SO is rerouting some traffic onto US 377 toward Stephenville because of road closures in Hood County resulting from the problems at the nuclear power plant. Some of these travelers want directions for the safest way to get to the Dallas-Ft. Worth and Waco areas. Can you recommend the safest routes to take avoiding potentially contaminated areas?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 12

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: DD-6A Exercise Controller

LOCATION: DISASTER DISTRICT 6A EOC, Waco

TIME: 10:45

MESSAGE: **SIMULATED TLETS FROM JOHNSON COUNTY SO:** There has been a substantial spontaneous evacuation occurring in the western part of the county as a result of the incident at Comanche Peak. This is creating a severe traffic problem. There is anticipation of the need to evacuate several nursing homes west of Cleburne and the state park southwest of the city. If there is no danger in those areas we need to have official word broadcast in this area to reduce fears and panic. If there is a risk we need to know how severe the problem is and the areas affected. We need this information ASAP.

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 13

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: Phone Bank (Miles Communications)

LOCATION: DISASTER DISTRICT 6A EOC, Waco

TIME: 11:05

MESSAGE: This is Jean Madde with Miles Communication. We have several crews along highway 171 installing fiber optic cable in northwest Johnson County. We heard there was an accident at the Nuclear power plant not too far from here. Are my crews in danger? Should I pull them out? Please give me some direction as to what to do with my men.

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 14

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency
ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your
inject to whomever answers the phone in the EOC.

FROM: Phone Bank (Meridian Mayor)

LOCATION: DD-66A EOC, Waco

TIME: 11:20

MESSAGE: This is CJ Russell, Mayor of Meridian. I've received many calls from local citizens wanting to know if they are in any danger from the accident at the power plant. Give me all the information you have and without any technical mumbo jumbo.

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 15

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: Phone Bank (Freight Company)

LOCATION: DISASTER DISTRICT 6A, Waco

TIME: 11:30

MESSAGE: I need to speak with your DOT person.

This is Michael Peat with Central Freight in Waco. I am receiving reports from my drivers that a number of roads are closed due to the accident at Comanche Peak power plant. Can you provide me with updated information regarding road closures in Hood and Somervell counties? I have already checked the DOT website and it is not showing any problems as of yet. I have a number of trucks in the vicinity and I want to make sure they meet their delivery schedules.

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 16

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: Phone Bank (Lone Tree Retirement Center)

LOCATION: DISASTER DISTRICT 6A EOC, Waco

TIME: 11:48

MESSAGE: May I please speak with your Health and Humans Services representative?

This is Martha Gomez, Director of Nursing with the Lone Tree Retirement Center in Burleson. We have had several family members come take their relatives home with them and even more calling in a panic regarding the incident at Comanche Peak. My understanding is that there is no danger to us in this location. I am worried about the lack of medical attention that some of these patients may receive when they leave the center. Do you have someone that can come and talk with these family members about the risks they may be taking in removing their loved ones.

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 17

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: Phone Bank (North Texas Farmer's COOP)

LOCATION: DISASTER DISTRICT 6A EOC, Waco

TIME: 11:58

MESSAGE: This is Tom Leon with the North Texas Farmer's Coop. I have received several calls from farmers in Hood, Johnson, and Erath County who are concerned about the loss of their crops due to the accident at the power plant. They want me to get a contact for FEMA so they can look into financial assistance. Is this something we can do ourselves or do we have to go through another agency to get to them? If we can do it can you please give me a contact name and phone number?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 18

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: Phone Bank (Glen Rose Cablevision)

LOCATION: DISASER DISTRICT 6A EOC, Waco

TIME: 12:10

MESSAGE: This is Dennis Banks with Glen Rose Cablevision. I have a crew installing cable TV lines on Highway 4. They heard on the radio there was an accident at the nuclear power plant. We have heard nothing of this before now. When did this happen? How severe was the accident? Are my people in danger? Should I evacuate them? Do they need to get medical attention? How do we get them out of the area now?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 19

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: Phone Bank (Meat Processing Plant)

LOCATION: DISASTER DISTRICT 6A EOC, Waco

TIME: 12:22

MESSAGE: May I speak to your Ag specialist?

My name is Thomas Hasting with the Arlington Meat Processing Plant. We have a truckload of cattle sitting in our lot for processing from Johnson County. I heard about the accident at Comanche Peak and I need to know if there is a chance these cattle could be contaminated. I need you to send someone to come check out these animals and make sure they are fit to slaughter.

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 20

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: DD-6A Exercise Controller (Comanche Co. SO)

LOCATION: DISASTER DISTRICT 6A EOC, Waco

TIME: 12:40

MESSAGE: **SIMULATED FAX FRO COMANCHE CO SO:** We have two families traveling through Comanche County that are at the local health clinic demanding that they be decontaminated and provided with a supply of potassium iodide to prevent radiation sickness. The say that they passed just west of Comanche Peak earlier today.

What do we do with these people? We have them quarantined in the clinic parking lot for now.

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 21

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: Phone Bank (White Water Travel Tours)

LOCATION: DD-66 EOC, Waco

TIME: 12:45

MESSAGE: This is Cynde Hook with White Water Travel Tours of Dallas. We have a group of 20 teenagers that were supposed to have arrived over an hour ago at their destination point on the Brazos River near the bridge on Highway 67 just outside of Rainbow. We have been told that there was a nuclear accident in that same area this morning. We have been unable to contact them by radio or cellular phone. Can you help us find these kids? I don't want to have to deal with irate parents.

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 22

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: Phone Bank (KWHY – TV, Arlington)

LOCATION: DISASTER DISTRICT 6A EOC, Waco

TIME: 12:55

MESSAGE: This is Marty Lends with KWHY-TV in Arlington. We have received reports that there may be extensive power outages in the Dallas-Ft. Worth areas for an extended period of time due to the accident at Comanche Peak. Do you have any information indicating if and when this might happen? Do you expect outages in other areas? How many people might be affected? Who can I speak with that might have some authoritative information?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 23

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: Phone Bank (North Texas Chapter of Silent Helpers)

LOCATION: DISASTER DISTRICT 6A EOC, Waco

TIME: 13:05

MESSAGE: This is Ed Lunds with the North Texas Chapter of Silent Helpers. We are standing by to provide clothing assistance for evacuees. We have not received any requests for our services. We have several large trucks with used, sized clothing, along with attendees for assistance. Do you need any help from us at this point? If so, when and where do you want the trucks?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 24

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM: Phone Bank

LOCATION: DISASTER DISTRICT 6A EOC, Waco

TIME: 13:15

MESSAGE: This is Frank Kennedy, the Matagorda Co. Emergency Management Coordinator. Because the South Texas Project is located in our county we have a number of personnel trained in radiological monitoring. We would like to see if you might need some help in checking people and cars evacuating from the Comanche Peak area. We can provide at least 6 trained personnel along with monitoring equipment if there is a need for them. We have a local company that is willing to sponsor a charter flight to get them to you as soon as possible. All we need from you is a request for their services and information about the location of the airport. We will also need someone to pick them up at the airport.

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 1

TO: STATE OPERATIONS CENTER

FROM: PHONE BANK (DDC, EOC 6A)

LOCATION: STATE EOC, AUSTIN

TIME: X+1:00

MESSAGE: This is Lt. Jeffery Jones with DDC- 6A. This message is to inform you that DDC-6A has activated our EOC as a result of an accident at Comanche Peak Nuclear Power Plant. Will the State Operations Center activate and at what level?

Phone Bank Instructions:

- c. If player reply is incomplete or unresponsive, ask for additional information.
- d. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 2

TO: STATE OPERATIONS CENTER

FROM: PHONE BANK (KLBK 590 AM)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 1:10

MESSAGE: This News Director Jim Rodgers with news radio KLBK 590 AM. We have received a message over the news wire that there has been an accident at the Comanche Peak Nuclear Power Plant. Can you confirm this report at this time? Has there been a release of radiation? Were there any casualties?

Phone Bank Instructions:

- e. If player reply is incomplete or unresponsive, ask for additional information.
- f. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 3

TO: STATE OPERATIONS CENTER

FROM: Phone Bank (Fox News, 7)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 1:20

MESSAGE: This is Rosalie James, with Fox News, 7 in Austin. Can you please take some time to answer a few questions for me? I have received information that there has been an accident at the nuclear facility in Glen Rose. Is that true? Injuries? Radiation released? Would you please give me an official statement to go on the air with?

Phone Bank Instructions:

- g. If player reply is incomplete or unresponsive, ask for additional information.
- h. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 4

TO: STATE OPERATIONS CENTER

FROM: Phone Bank (Washington D.C. Senator's Office)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 1:35

MESSAGE: This is Senator James Alexander. Let me speak with Jack Colley. My office has just notified me that there has been an accident at the nuclear power plant in Glen Rose; is that true? Fill me in on the situation. How bad is it? Was there a release of radiation? Was anyone hurt? Are evacuations going to be necessary? Who is in charge there? Have we had any response yet from any of the "green" groups yet? Please keep my staff informed of the situation.

Phone Bank Instructions:

- i. If player reply is incomplete or unresponsive, ask for additional information.
- j. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 5

TO: STATE OPERATIONS CENTER

FROM: Phone Bank (Citizen)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 1:40

MESSAGE: I need some help. I just heard about the accident in Glen Rose. I live here in Austin but have a ranch not far from the Comanche Peak Power Plant. I am worried about my cattle. I do not have enough hands onsite to move them right now. Is there a chance they are contaminated with radiation? What do I need to do if they are contaminated?

Phone Bank Instructions:

- k. If player reply is incomplete or unresponsive, ask for additional information.
- l. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 6

TO: STATE OPERATIONS CENTER

FROM: Phone Bank (Santa Fe RR)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 2:00

MESSAGE: This is Larry Hand with dispatch for Santa Fe RR. We have halted rail traffic on the line between Granbury and Stephenville. Do you have an estimate how on long I have to keep those trains stopped? Is this really necessary? Pretty soon I will have 4 or more trains in the area. The longer they sit the more traffic I must stop. Who will make that decision?

Phone Bank Instructions:

- m. If player reply is incomplete or unresponsive, ask for additional information.
- n. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 7

TO: STATE OPERATIONS CENTER

FROM: SOC Exercise Controller

LOCATION: STATE OPERATIONS CENTER

TIME: X + 2:10

MESSAGE: **SIMULATED TLETS MESSAGE FROM ERATH COUNT SO:** Hood County SO is rerouting some traffic onto US 377 toward Stephenville because of road closures in Hood County resulting from the problems at the nuclear power plant. Some of these travelers want directions for the safest way to get to the Dallas-Ft. Worth and Waco areas. Can you recommend the safest routes to take avoiding potentially contaminated areas?

Phone Bank Instructions:

- o. If player reply is incomplete or unresponsive, ask for additional information.
- p. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 8

TO: STATE OPERATIONS CENTER

FROM: SOC Exercise Controller

LOCATION: STATE OPERATIONS CENTER

TIME: X + 2:25

MESSAGE: **SIMULATED TLETS FROM JOHNSON COUNTY SO:** There have been substantial spontaneous evacuations occurring in the western part of the county as a result of the incident at Comanche Peak. This is creating a severe traffic problem. There is anticipation of the need to evacuate several nursing homes west of Cleburne and the state park southwest of the city. If there is no danger in those areas we need to have official word broadcast in this area to Alleviate fears and reduce panic. If there is a risk we need to know how severe the problem is and the areas affected. We need this information ASAP.

Phone Bank Instructions:

- q. If player reply is incomplete or unresponsive, ask for additional information.
- r. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 9

TO: STATE OPERATIONS CENTER

FROM: Phone Bank (Texas Farmer's COOP)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 2:35

MESSAGE: I think I need to speak with someone in the insurance department. My name is Dell Brown and I am with the Texas Farmer's COOP. I am receiving many, many calls from farmers in Glen Rose and surrounding areas. They are all concerned about their homes, equipment and crops. They are worried they may be contaminated with radiation from the accident at Comanche Peak. Will their insurance cover a loss that results from this type of accident? If their insurance won't cover it will the Federal Government pay the bill?

Phone Bank Instructions:

- s. If player reply is incomplete or unresponsive, ask for additional information.
- t. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 10

TO: STATE OPERATIONS CENTER

FROM: Phone Bank (Texas Cotton Growers Assn)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 2:40

MESSAGE: This Peter Knott with the Texas Cotton Growers Assn. Several of my farmers are concerned about the water the Brazos River. Many of them use that water for irrigation several times throughout the growing season. Is this water safe to use for irrigation? They are also worried about the animals. How can they know this water is safe?

Phone Bank Instructions:

- u. If player reply is incomplete or unresponsive, ask for additional information.
- v. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 11

TO: STATE OPERATIONS CENTER

FROM: Phone Bank (Austin Cartography)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 2:55

MESSAGE: My name is William Magellan. I am with Austin Cartography. We are scheduled to do some aerial photography over several counties surrounding Comanche Peak Nuclear Power plant. Is the air space restricted in that area, if so where?

Phone Bank Instructions:

- w. If player reply is incomplete or unresponsive, ask for additional information.
- x. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 12

TO: STATE OPERATIONS CENTER

FROM: Phone Bank (Johnson County Judge's Office)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 3:00

MESSAGE: This is Ann Sclarry with Judge Bean's office in Johnson County. We have several facilities that have campers in the area. Are they in danger? Do we need to evacuate them? Several have called and are quite disturbed. What information can I advise the Judge and Rangers with?

Phone Bank Instructions:

- y. If player reply is incomplete or unresponsive, ask for additional information.
- z. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 13

TO: STATE OPERATIONS CENTER

FROM: Phone Bank (Lake Whitney Anglers Assn)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 3:05

MESSAGE: This is Don Slatter with the Lake Whitney Anglers Assn. We have a bass tournament scheduled for tomorrow. How will we know if the water is safe and the fish are not contaminated?

Phone Bank Instructions:

- aa. If player reply is incomplete or unresponsive, ask for additional information.
- bb. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 14

TO: STATE OPERATIONS CENTER

FROM: Phone Bank (Central Texas Dairy Assn.)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 3:15

MESSAGE: This is Jerry Yates, President of the Central Texas Dairy Assn. How can we find out if the milk from our cows is safe? Also, how will we know whether the pastures they graze on are not contaminated? What about the milk that they have onsite now, is there a potential problem with it?

Phone Bank Instructions:

- cc. If player reply is incomplete or unresponsive, ask for additional information.
- dd. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 15

TO: STATE OPERATIONS CENTER

FROM: Phone Bank (Mayor, Stephenville)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 3:25

MESSAGE: This is Timothy Berkman, Mayor of Stephenville. We have several requests from motorists coming from the Comanche Peak area. They want us to check their vehicles for contamination. Is this something we need to do? If so, we will need some help. Please advise.

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 16

TO: STATE OPERATIONS CENTER
FROM: Phone Bank (Lt. Governor's Office)
LOCATION: STATE OPERATIONS CENTER
TIME: X + 3:30

This is Debra Bradley with the Lt. Governor's office. He would like an update on the incident at Comanche Peak. Please answer the following questions:

1. How many casualties are there?
2. What actions have been taken?
3. Has the leak been contained? If the leak has not been contained when do you see that happening?
4. What agencies do you have involved in the response at the site?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 17

TO: STATE OPERATIONS CENTER

FROM: Phone Bank (Plant Grower)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 3:45

MESSAGE: This is Hilde Greens with the Centex Growers. We have a load of shrubs and saplings to be shipped to nurseries in Johnson and Bosque Counties. Do we need to worry about radiation contaminating our plants? Have these areas been affected by the incident at Comanche Peak?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 18

TO: STATE OPERATIONS CENTER

FROM: Phone Bank (Santa Fe Railroad)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 4:00

MESSAGE: This is Bradley Ehler, Dispatch Supervisor with Santa Fe Railroad. We have been delaying several rail shipments on the lines just North of Granbury and traffic will soon start back up both east and west. Unless you can tell me that it is unsafe we are going to start up running again. Do you have any information that will tell me otherwise?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 19

TO: STATE OPERATIONS CENTER

FROM: Phone Bank (Human Services – City of Denver)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 4:10

MESSAGE: This is Vince Price with the Human Services Department of the City of Denver. A family here in Denver has two relatives in a nursing home in Somervell County. They have tried to contact them by phone both directly and through the nursing home administration without success. They are worried that their family members have been evacuated. Do you know or can you find out if the Somervell Manor has been evacuated and if so, where?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 20

TO: STATE OPERATIONS CENTER

FROM: Phone Bank (Bosque County Judge)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 4:20

MESSAGE: This is Judge Waller of Bosque County. We have had a continuous stream of traffic into the county from the Comanche Peak area. All of our restaurants, convenience stores, and gas stations are jammed with people. I am worried the situation may get out of hand. I have not been able to get through to Hood or Somervell Counties. Are the evacuations complete or should I expect additional people? We have all our personnel activated but may need assistance if we get more evacuees.

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 21

TO: STATE OPERATIONS CENTER.

FROM: Phone Bank (State Representative)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 4:30

MESSAGE: This is Russ Lighter with State Representative Jack's office. We are getting requests for information regarding family members of the evacuees from around the Comanche Peak area. We understand that many local residents have been evacuated. They want to know where their family members have been evacuated and how they can get in touch with them. Can you provide us with information as to where evacuees are being sent? Have you put out a press release with this information?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 22

TO: STATE EOC

FROM: STATE EOC Controller

LOCATION: STATE EOC

TIME: X + 4:40

MESSAGE: **SIMULATED TLETS FROM DD-6A, WACO:** From DDC Chair. We have received numerous offers of donations from groups and individuals for relief for evacuees from Comanche Peak. We don't have the capability of handling these donations. Do you want us to fax the offers to the SOC? Will there be a hotline set up to handle donations? If one is to be set up when will it be operable and what number can we give out?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 23

TO: STATE OPERATIONS CENTER

FROM: Phone Bank (KPXX News, Waco)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 4:45

MESSAGE: This is Robert Starrett of KPXX News. We need some information for our news piece on Comanche Peak. Could you please answer these questions for us?

- Has radiological contamination been confirmed outside the boundaries of the plant?
- Is there any reason to believe that the Brazos River has been contaminated?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 24

TO: STATE OPERATIONS CENTER

FROM: Phone Bank (Bosque County Physician)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 4:45

MESSAGE: I need to speak with someone from the Health Department.

This is Dr. Elton Bailey with the Bosque County Clinic in Meridian. We have about 10 people at the clinic today wanting potassium iodide to protect them from the radiation. They are worried about contamination due to the accident at Comanche Peak. This is not a prescription drug but our local pharmacies do not stock it. Will we receive some from the State? If so, when and how will we receive it? We also need direction as to who should get it. Can you help?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 25

TO: STATE OPERATIONS CENTER

FROM: Phone Bank (Girl Scout Troop)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 4:55

MESSAGE: This is Kate Alexander the Troop 239 from Corsicana. I have a group of girls and we are heading to Action State Historic Site near Lake Granbury. We just heard about the accident at Comanche Peak. Is it safe for us to continue to Action? I want to have accurate information to give to their parents before we leave.

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 26

TO: STATE OPERATIONS CENTER

FROM: Phone Bank (USPS)

LOCATION: DISASTER DISTRICT 6A EOC, Waco

TIME: X + 5:05

MESSAGE: This is Kim Franco with the United States Postal Service in Dallas. We are scheduled to make routine deliveries to each of the post offices in the area around Comanche Peak. We have heard that much of the area is closed to traffic. Is there a safety issue for my drivers and the chance of contaminating the mail? What areas are closed to traffic?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message 27

TO: STATE OPERATIONS CENTER

FROM: Phone Bank (Rancher)

LOCATION: STATE OPERATIONS CENTER

TIME: X + 5:15

MESSAGE: This is Steck Porter. I want some information about the condition of water and grazing areas for my cattle. I live just west of Palo Pinto. Is it safe for cattle to graze in pastures in that area? I want to know if the water in my stock tanks is safe for my herds to drink from? Is there any chance of contamination?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

Message

TO: DISASTER DISTRICT 6A EOC First: Communications (254) 897-5628 ask for EOC
Second: (254) 867-4600 ask for EOC

SPECIAL INSTRUCTIONS: A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone in the EOC.

FROM:

LOCATION: DISASTER DISTRICT 6A EOC, Waco

TIME:

MESSAGE:

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

9.0 METEOROLOGICAL CONDITIONS

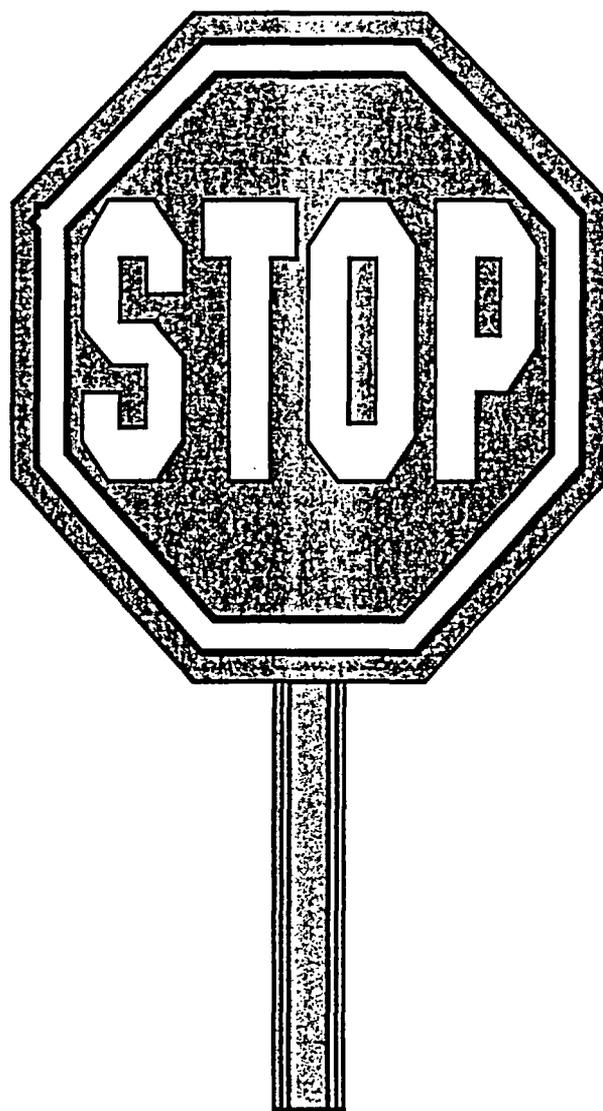
Real Time	Wind Speed	Wind Dir.	Delta-t	Air Temp.
07:30	8	255	-1.4 C	65
07:45	8	255	-1.4	65
08:00	8	255	-1.4	66
08:15	8	258	-1.4	66
08:30	9	258	-1.5	66
08:45	9	260	-1.5	66
09:00	9	260	-1.4	67
09:15	9	265	-1.4	67
09:30	10	265	-1.5	67
09:45	10	267	-1.4	68
10:00	10	267	-1.4	68
10:15	12	265	-1.5	68
10:30	12	267	-1.4	68
10:45	12	270	-1.2 D	68
11:00	12	270	-1.2	70
11:15	12	271	-1.2	70
11:30	12	270	-1.1	70
11:45	10	272	-1.2	70
12:00	10	271	-1.1	72
12:15	10	270	-1.1	72
12:30	13	271	-1.0	72
12:45	13	272	-1.2	74
13:00	13	273	-1.1	74
13:15	13	273	-1.2	74
13:30	13	274	-1.0	74
13:45	15	272	-1.1	75
14:00	15	273	-1.2	75
14:15	15	271	-1.2	75
14:30	15	270	-1.2	76
14:45	15	273	-1.2	76
15:00	15	271	-1.2	76
15:15	15	273	-1.2	78
15:30	15	272	-1.2	78

Wind Speed Units: Miles/hour
 Wind Direction Units: Degrees
 Delta-t Units: Degrees F/50 m
 Air Temperature Units: Fahrenheit

November 19, 2003

Red Team Graded Exercise

On Site Radiological Data

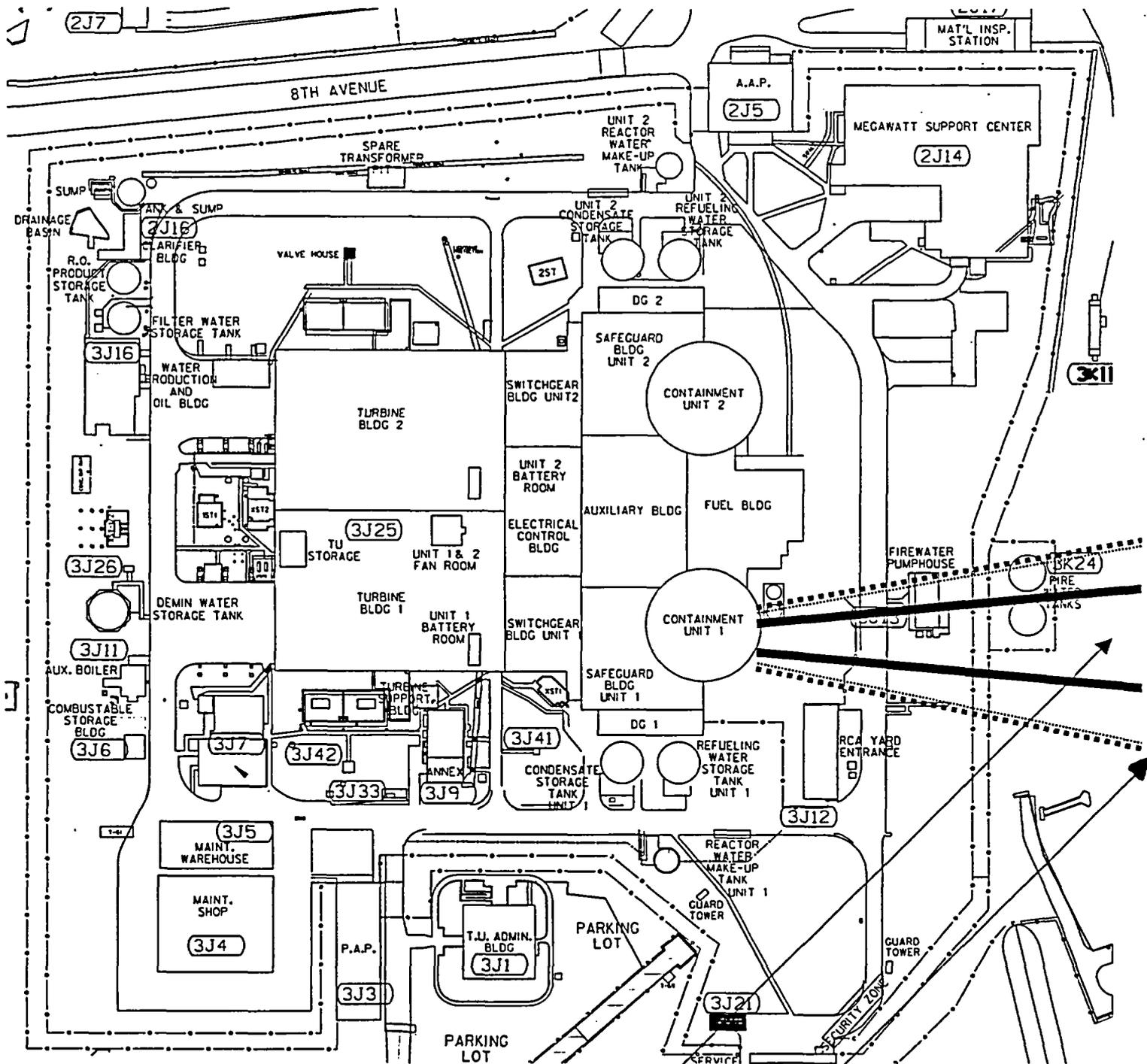


**All readings are after FFL-160 has gone
into alarm, indicating FAILED FUEL!**

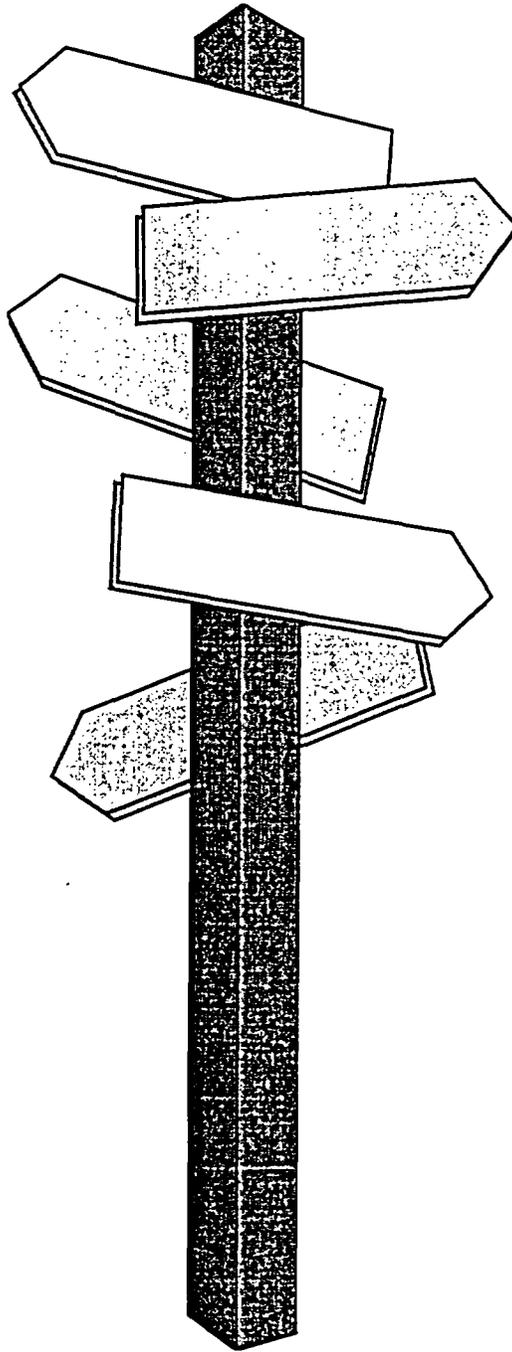
November 19,2003

Red Team Graded Exercise

On Site Radiological Data



Steam is coming from hatch. 5 R/hr inside plume. High radiation boundary. Water spray on steam will result in 100k dpm/100 cm², on ground and running off into Storm Drains.



Off Site Radiological data

Date/Time: 09/15/2003 09:20
Comments:

User Name: November, 2003 Drill

Plume Information

Distance (miles)	Plume Travel Time (hours:minutes)	CHI/Q Value (sec/m ³)	CHI/Q DEPL (sec/m ³)
0.5	0:02	2.955E-005	2.680E-005
1.0	0:05	1.135E-005	1.002E-005
2.0	0:10	4.131E-006	3.466E-006
5.0	0:25	1.103E-006	8.097E-007
7.5	0:37	6.260E-007	4.220E-007
10.0	0:50	4.226E-007	2.680E-007
20.0	1:40	1.692E-007	1.000E-007

Plume TRAVEL

Measurable Dose Rates

Distance (miles)	Immersion Whole Body noble gas gamma (rem/hr)	TEDE external + internal (rem/hr)	Iodine CDE Thyroid (rem/hr)
0.5	3.481	4.520	18.978
1.0	1.155	0.477	7.091
2.0	0.342	0.097	2.449
5.0	0.066	0.048	0.570
7.5	0.032	0.029	0.296
10.0	0.019	0.029	0.187
20.0	0.006	0.009	0.069

Inst. READINGS

PAG Dose Rates

Measurable Doses

Distance (miles)	Immersion Whole Body noble gas gamma (rem)	TEDE external + internal (rem)	Iodine CDE Thyroid (rem)
0.5	13.924	18.114	75.912
1.0	4.621	6.184	28.363
2.0	1.369	1.907	9.797
5.0	0.263	0.387	2.278
7.5	0.126	0.190	1.183
10.0	0.075	0.115	0.749
20.0	0.022	0.037	0.276

PAG Doses

RECOMMENDED Protective Actions in Affected Sectors and Zones

Affected sectors are: D, E, F

Affected zones are (Out to 5 miles): 2A, 2B, 2D, 2E, 1A
(5 to 10 miles): NONE

Calculations Completed

RESULTS

Method of Projection:
STAMPEDE

Wind Velocity: 12.0 mi/hr

Release Rate: 3.44E+008 uCi/sec

Wind Direction: 270.0

Offsite Dose Projection (rem):

	1 mile	2 miles	5 miles	10 miles
TEDE	[REDACTED]	[REDACTED]	0.387	0.115
CDE	[REDACTED]	[REDACTED]	2.278	0.749

Projected duration of release: 4.0 hours

RECOMMENDED Protective Actions in Affected Sectors and Zones

Affected sectors are: D, E, F

Affected zones are (Out to 5 miles): 2A, 2B, 2D, 2E, 1A
(5 to 10 miles): NONE

PERFORMED BY:

9/15/03 9:47:18 AM

REVIEWED BY:

Radiological Director

Date/Time

Date/Time

Date/Time: 09/15/2003 09:20

User Name: November, 2003 Drill

Comments:

User Supplied Information

Meteorological Data Inputs:

Ground level wind velocity: 12.0 mi/hr
 Ground level wind from: 270.0 degrees
 User-selected Stability Class
 Stability Class: "D - Neutral"

RCB Radiation Level: 200 R/hr
 Time since Reactor shutdown: 0.01 hours
 RCB Pressure: 40.00 psig
 RCB Pressure Drop: 10.00 psig/hr

Reactor Shutdown Date/Time: 9/15/2003 09:20
 Release Start Date/Time: 9/15/2003 09:20
 Estimated Release Duration: 4.00 hours

Nuclide Mixture: Gap Inventory

Calculated NOBLE GAS release rate: 3.44E+008 uCi/sec

NOBLE GAS		IODINE		PARTICULATE	
Nuclide	uCi/sec	Nuclide	uCi/sec	Nuclide	uCi/sec
Kr-83M:	4.73E+006	I-131:	3.87E+005	Cs-134:	1.05E+003
Kr-85:	7.91E+005	I-132:	5.68E+005	Cs-137:	6.84E+002
Kr-85M:	1.07E+007	I-133:	7.79E+005	Ce/Pr-144:	3.55E-001
Kr-87:	1.93E+007	I-134:	8.62E+005	Ce-141:	2.87E-001
Kr-88:	2.76E+007	I-135:	7.42E+005	La-140:	6.36E-001
Kr-89:	2.97E+007			Mo-99:	3.41E+002
Xe-131M:	2.79E+005			Ru/Rh-106:	1.27E-001
Xe-133:	7.55E+007			Ru-103:	2.59E-001
Xe-133M:	1.15E+007			Sr/Y-90:	5.46E-001
Xe-135:	1.66E+007			Sr-89:	1.96E+000
Xe-135M:	1.54E+007			Te-132:	1.32E+002
Xe-137:	7.04E+007			Zr-95:	2.96E-001
Xe-138:	6.13E+007				

RADIOLOGICAL MONITORING DATA SHEET

CAUTION: When voice communicating, **ONLY** transmit data in **BOXES**.

PART 1 Team # Survey Time Sector/Distance / miles
 Nearest Landmark

PART 2 Gamma Exposure Rate mR/hr

PART 3 Air Sample VOLUME

$$\frac{\text{STOP Time}}{\text{START Time}} \text{ minus } = \text{Min X } \text{ft}^3 / \text{Min} = \text{ft}^3$$

$$\text{ft}^3 \times 2.8E4 = \text{Total Volume (cc)}$$

PART 4 AIRBORNE PARTICULATE

$$\text{Gross cpm minus Background cpm} = \text{ncpm}$$

$$\frac{\text{Net Counts Per Minute}}{\text{Detector Eff. (.1) * total volume(cc) * 2.22E6 * 1}} = \mu\text{Ci/cc}$$

PART 5 AIRBORNE RADIOIODINE

$$\text{Gross cpm minus Background cpm} = \text{ncpm}$$

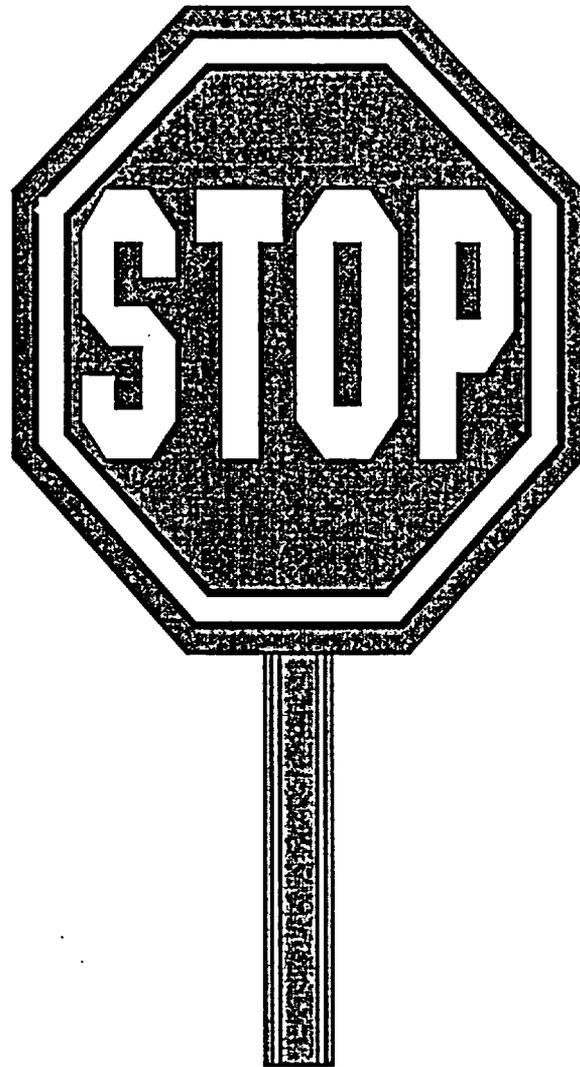
$$\frac{\text{Net Counts Per Minute}}{\text{Detector Eff. (.02) * total volume(cc) * 2.22E6 * .95}} = \mu\text{Ci/cc}$$

PART 6 GROUND SURVEY (DIRECT SCAN)

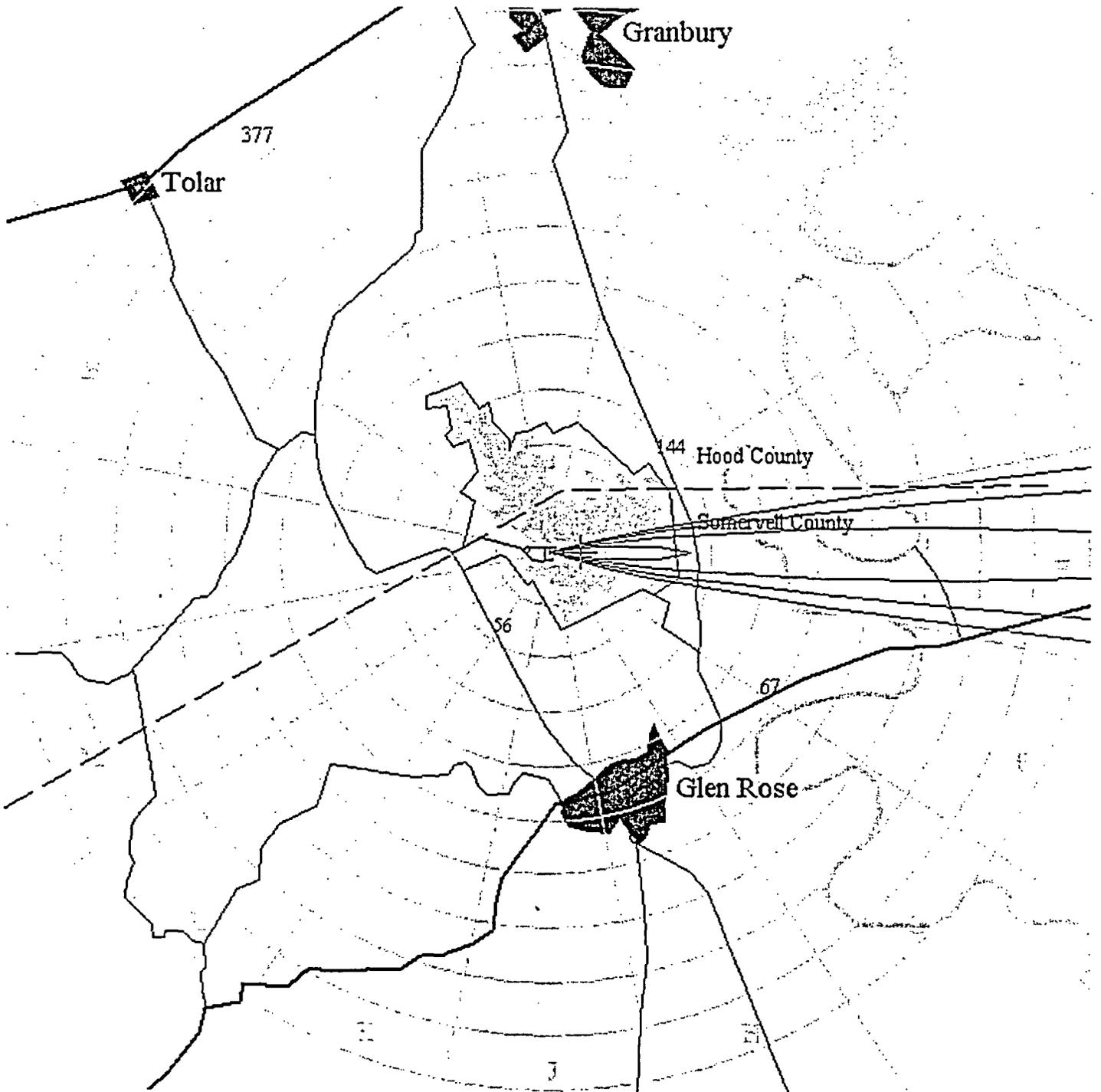
$$\text{ncpm} \times \frac{0.003 \mu\text{Ci}}{\text{ncpm} \cdot \text{m}^2} = \mu\text{Ci/m}^2$$

PART 7 GROUND SURVEY (SMEAR)

$$\text{ncpm} \times \frac{10 \text{ dpm} / 100 \text{ cm}^2}{\text{ncpm}} = \text{dpm} / 100 \text{ cm}^2$$



Center line plume data, this
begins at start of
release!



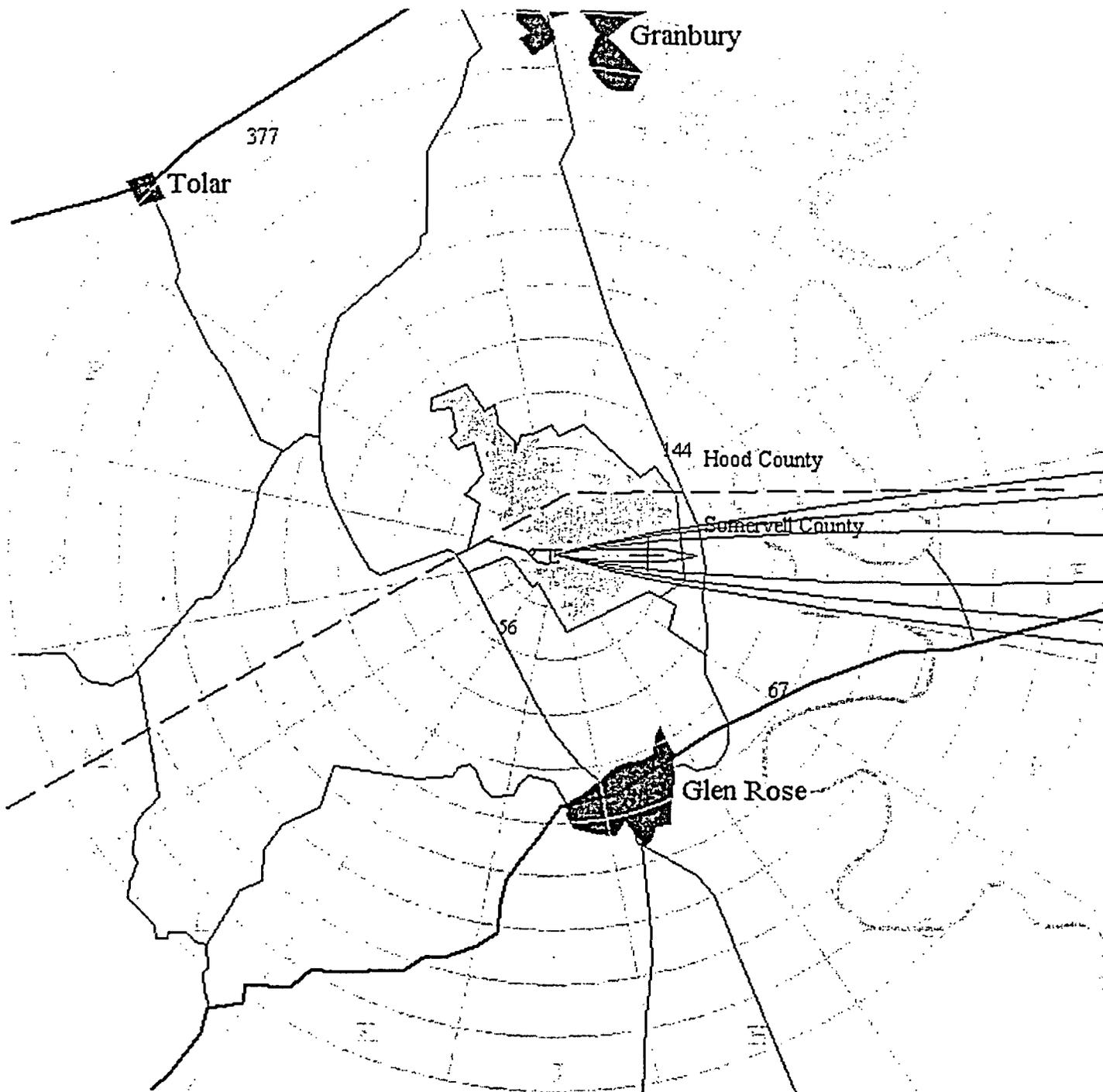
Distance: 0.5 mi.
 Angle: 90
 NG Dose Rate: 3.044 rem/hr

~~Thyroid Dose Rate: 16.811 rem/hr~~

Airborne Partic: 5.24E-008 uCi/cc — 3250 NCPM

Airborne Iodine: 7.82E-005 uCi/cc — 9.3 E5 NCPM

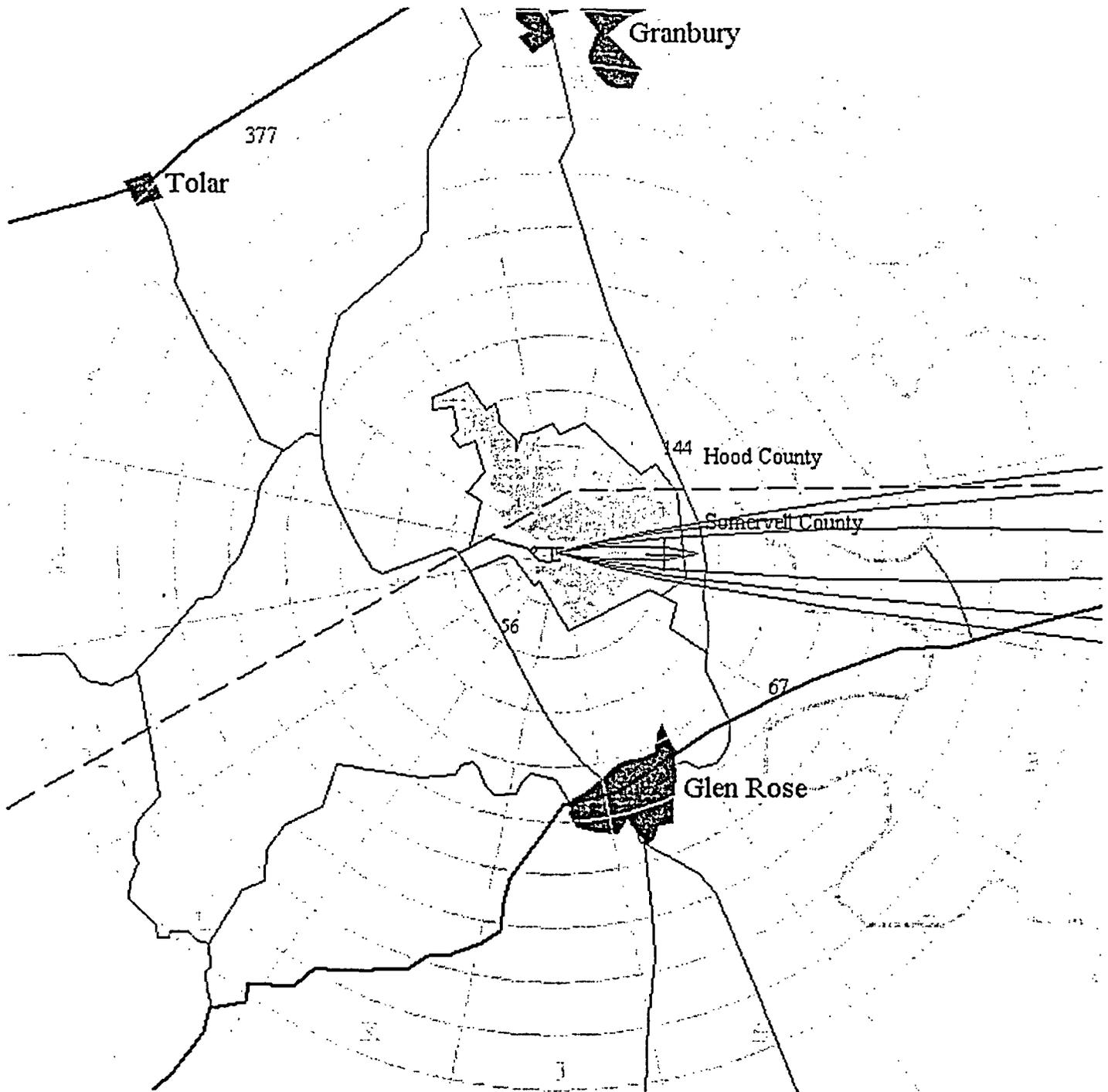
**THIS DATA IS
 @ FUEL ISLAND**



Distance: 1.7 mi.
 Angle: 90
 NG Dose Rate: 0.472 rem/hr
~~TEDE Dose Rate: 0.000 rem/hr~~
 Thyroid Dose Rate: 3.239 rem/hr
 Airborne Partic: 1.01E-008 uCi/cc
 Airborne Iodine: 1.47E-005 uCi/cc

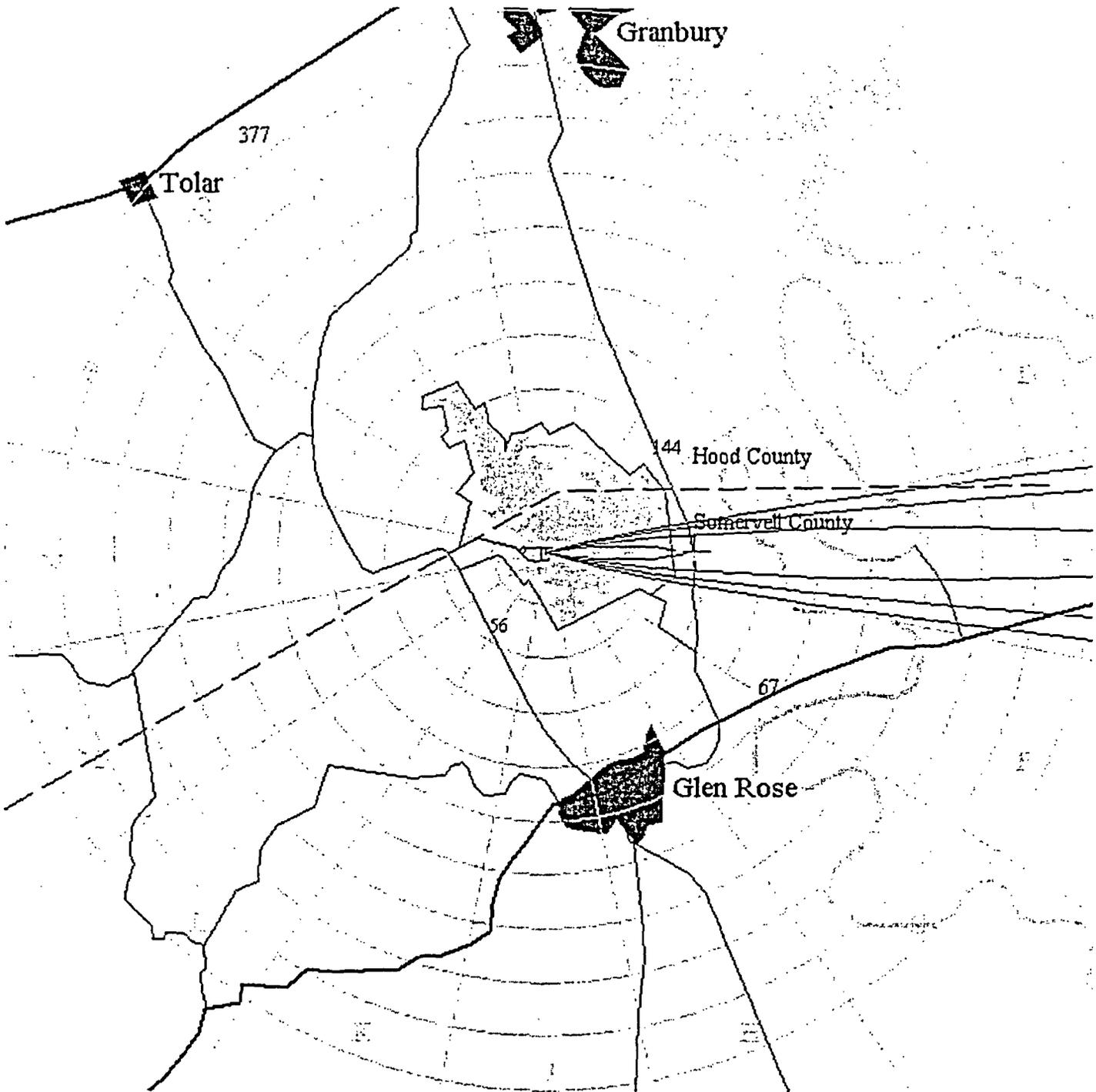
**This DATA IS
ON DAM**

← 630 NCPM
 — 1.7 E5 NCPM



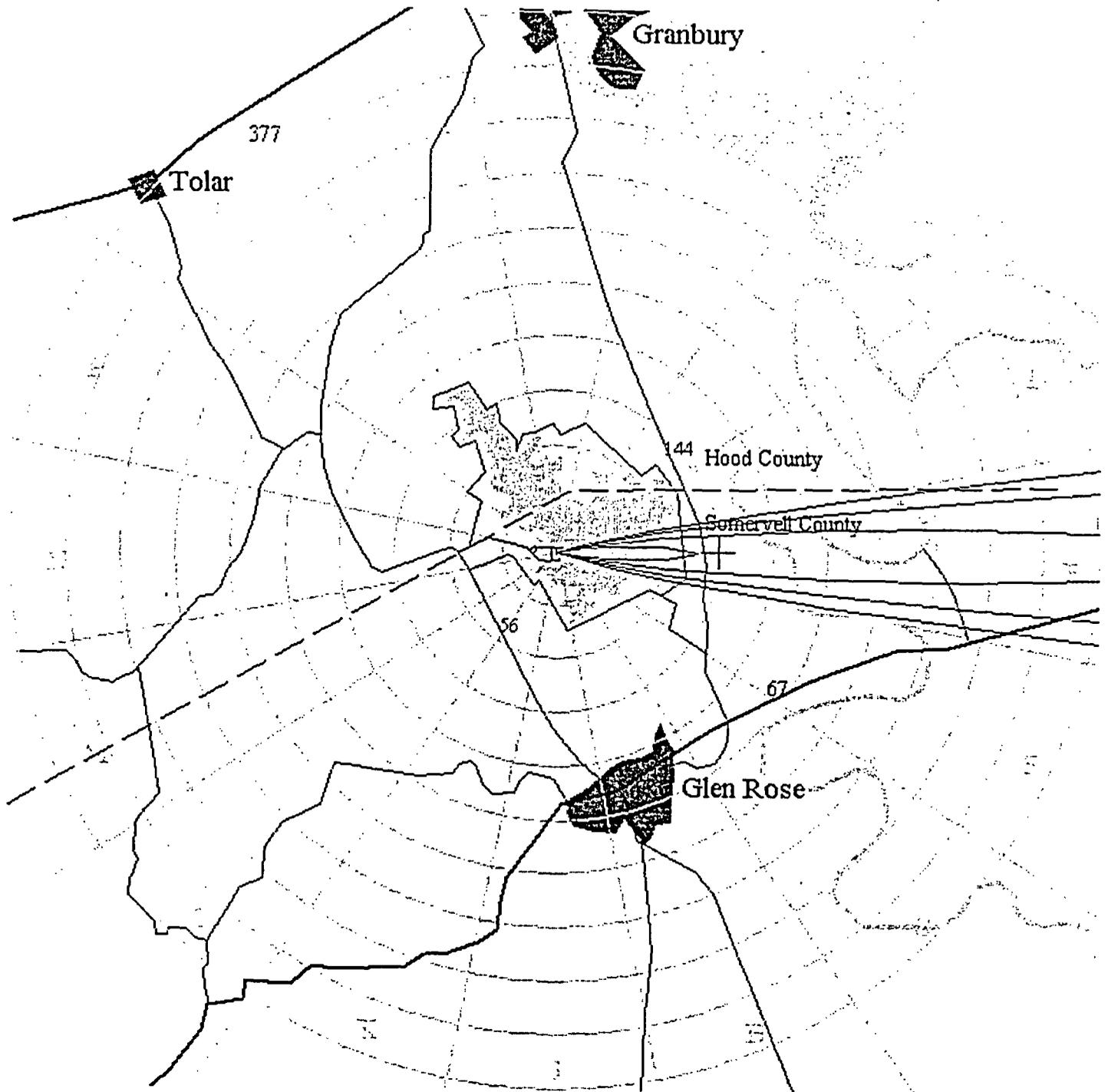
Distance: 2.0 mi.
Angle: 91
NG Dose Rate: 0.342 rem/hr
~~TEDE Dose Rate: 0.475 rem/hr~~
Thyroid Dose Rate: 2.432 rem/hr
Airborne Partic: 7.60E-009 uCi/cc-470
Airborne Iodine: 1.10E-005 uCi/cc

**This DATA IS
@ SOMERVILL
TRAINING CENTER
1.3E5 NCPM**



Distance: 2.7 mi.
Angle: 89
NG Dose Rate: 0.191 rem/hr
~~Thyroid Dose Rate: 1.458 rem/hr~~
Thyroid Dose Rate: 1.458 rem/hr
Airborne Partic: 4.56E-009 uCi/cc
Airborne Iodine: 6.48E-006 uCi/cc

**THIS DATA IS
@ HWY. 144**
- 2.80 NCPM
- 7.7E4 NCPM



Distance: 3.0 mi.

Angle: 89

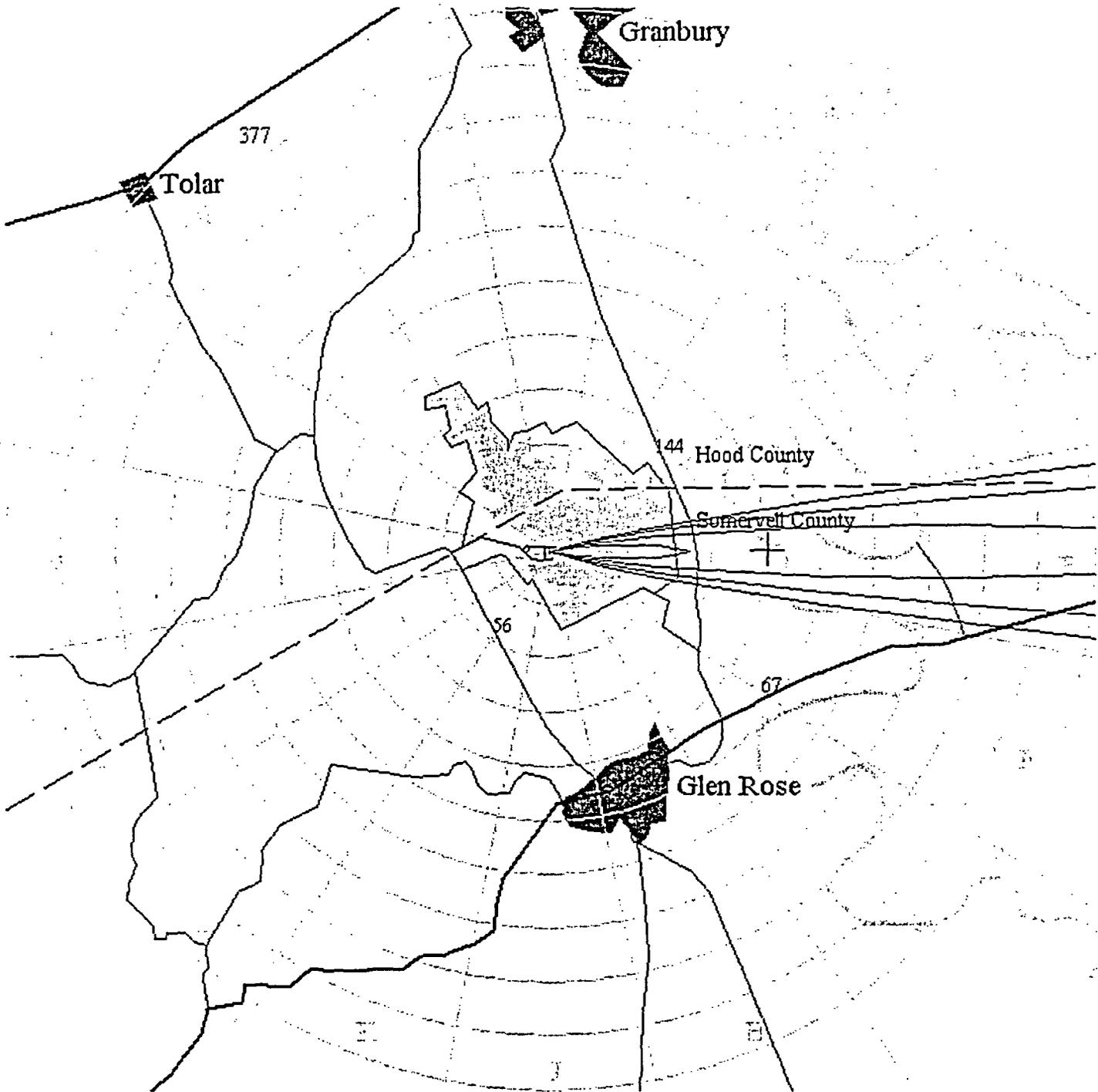
NG Dose Rate: 0.161 rem/hr

~~TESE B088~~

Thyroid Dose Rate: 1.260 rem/hr

Airborne Partic: 3.94E-009 uCi/cc — 245 NCPM

Airborne Iodine: 5.57E-006 uCi/cc — 6.6 E4 NCPM



Distance: 4.0 mi.

Angle: 90

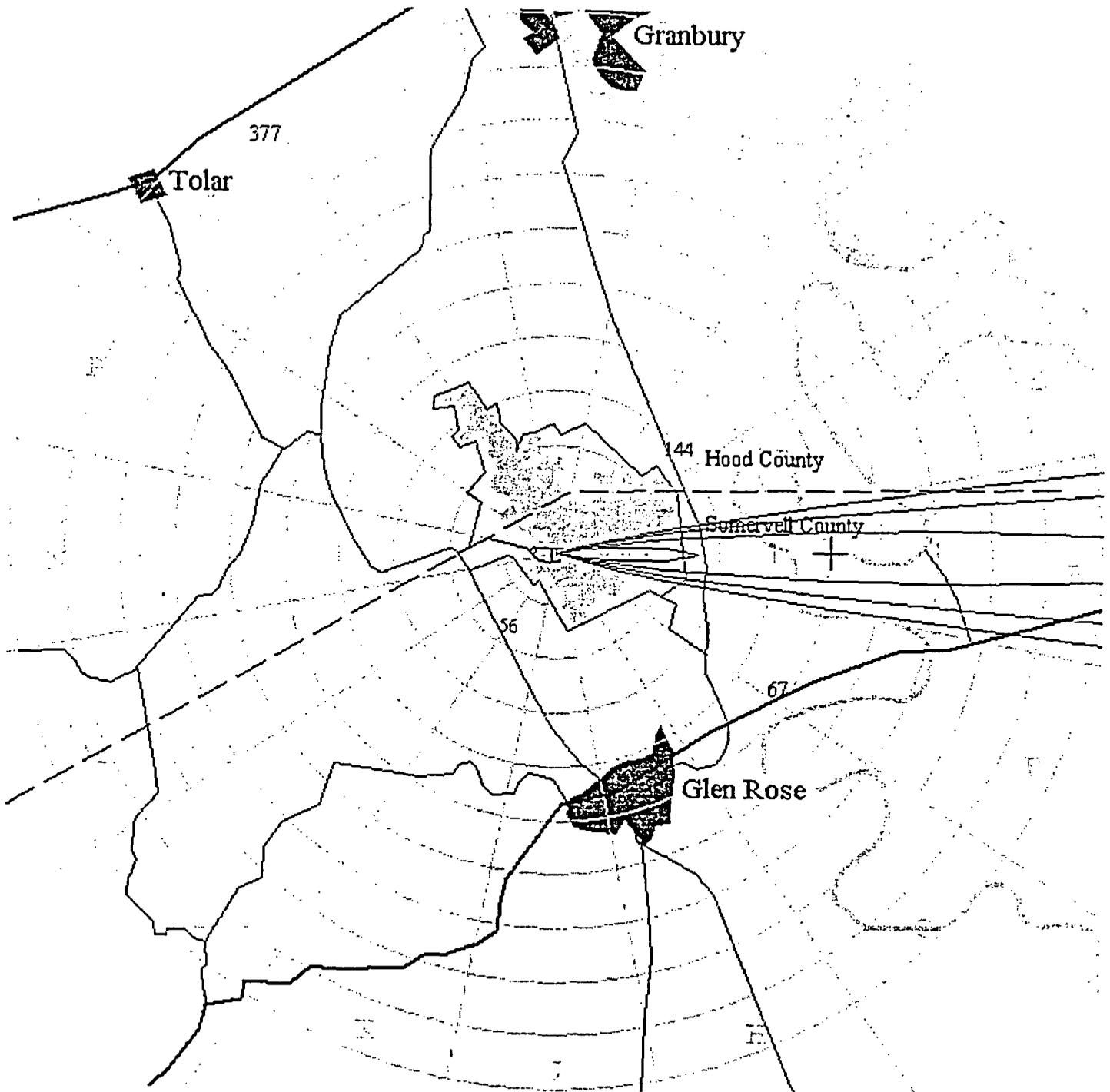
NG Dose Rate: 0.098 rem/hr

~~TE Dose Rate: 0.098 rem/hr~~

Thyroid Dose Rate: 0.814 rem/hr

Airborne Partic: $2.55E-009$ uCi/cc - 160 NCPM

Airborne Iodine: $3.53E-006$ uCi/cc - 4,2 E4 NCPM

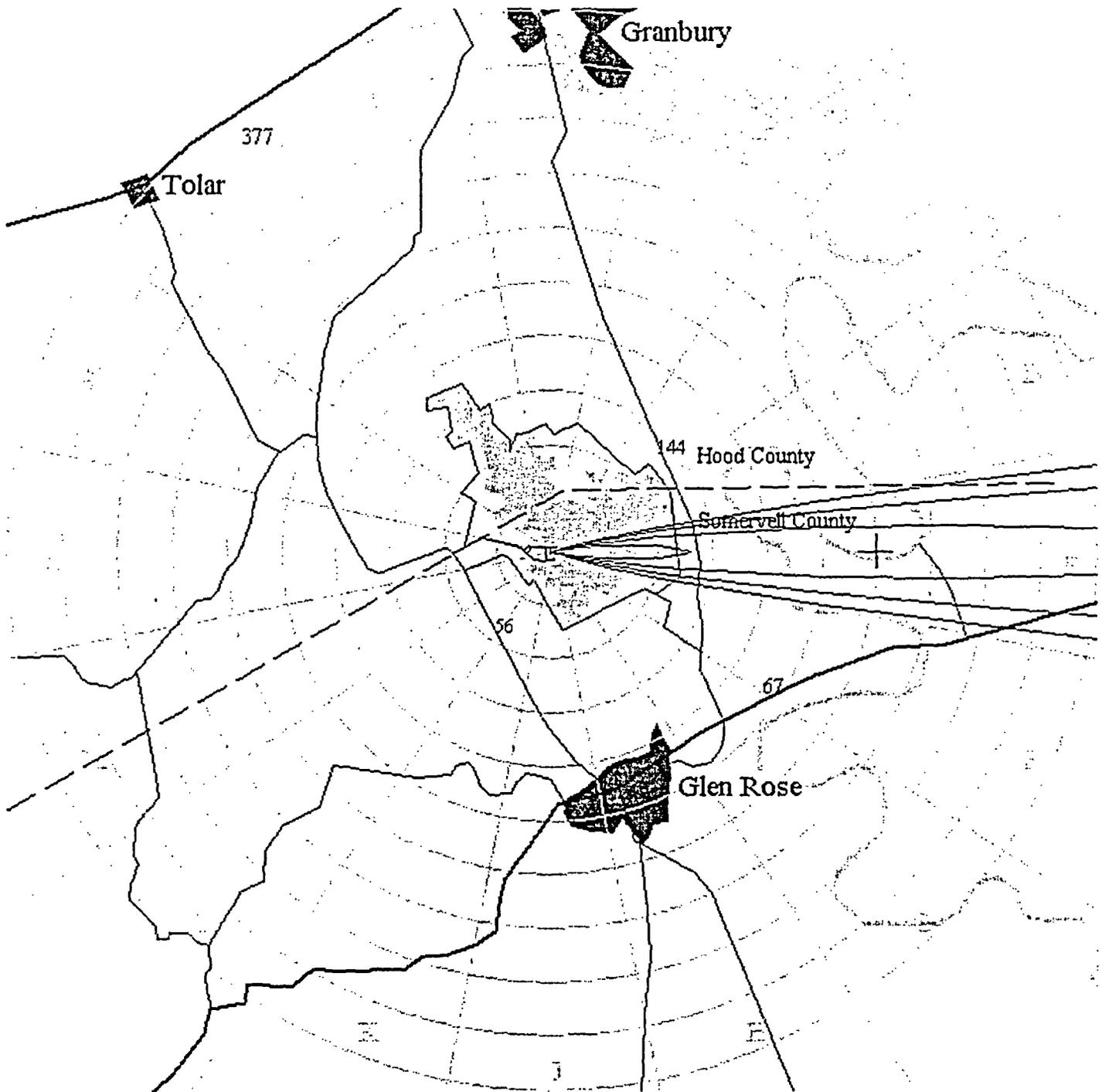


Distance: 5.0 mi.
Angle: 89
NG Dose Rate: 0.062 rem/hr

~~████████████████████~~
Thyroid Dose Rate: 0.540 rem/hr

Airborne Partic: 1.70E-009 uCi/cc -- 105 NCPM

Airborne Iodine: 2.29E-006 uCi/cc -- 2.7 E4 NCPM



Distance: 6.0 mi.

Angle: 90

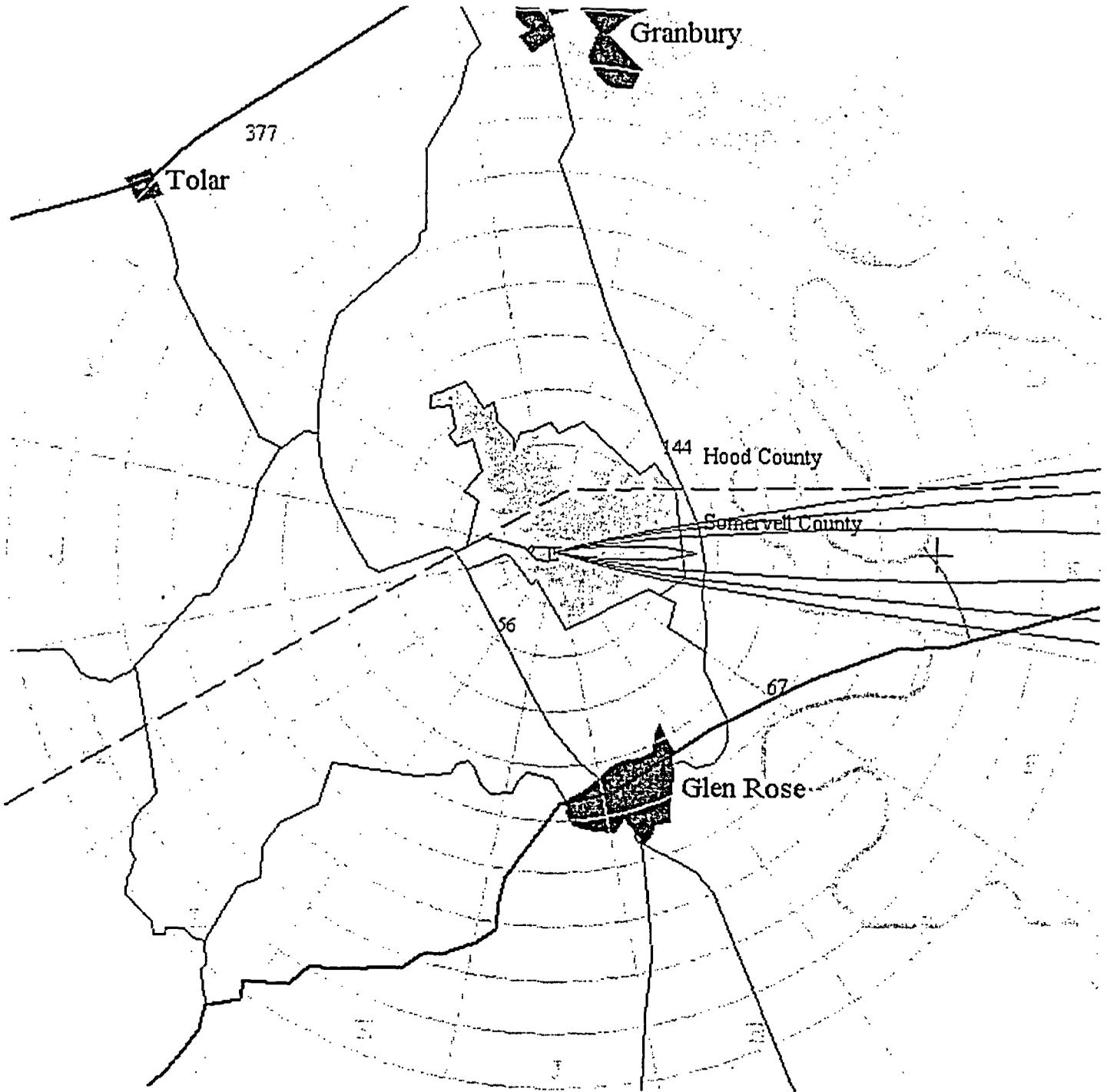
NG Dose Rate: 0.048 rem/hr

~~Thyroid Dose Rate: 0.428 rem/hr~~

Thyroid Dose Rate: 0.428 rem/hr

Airborne Partic: 1.35E-009 uCi/cc - 84 NCPM

Airborne Iodine: 1.79E-006 uCi/cc - 2.1 E4 NCPM



Distance: 7.0 mi.

Angle: 90

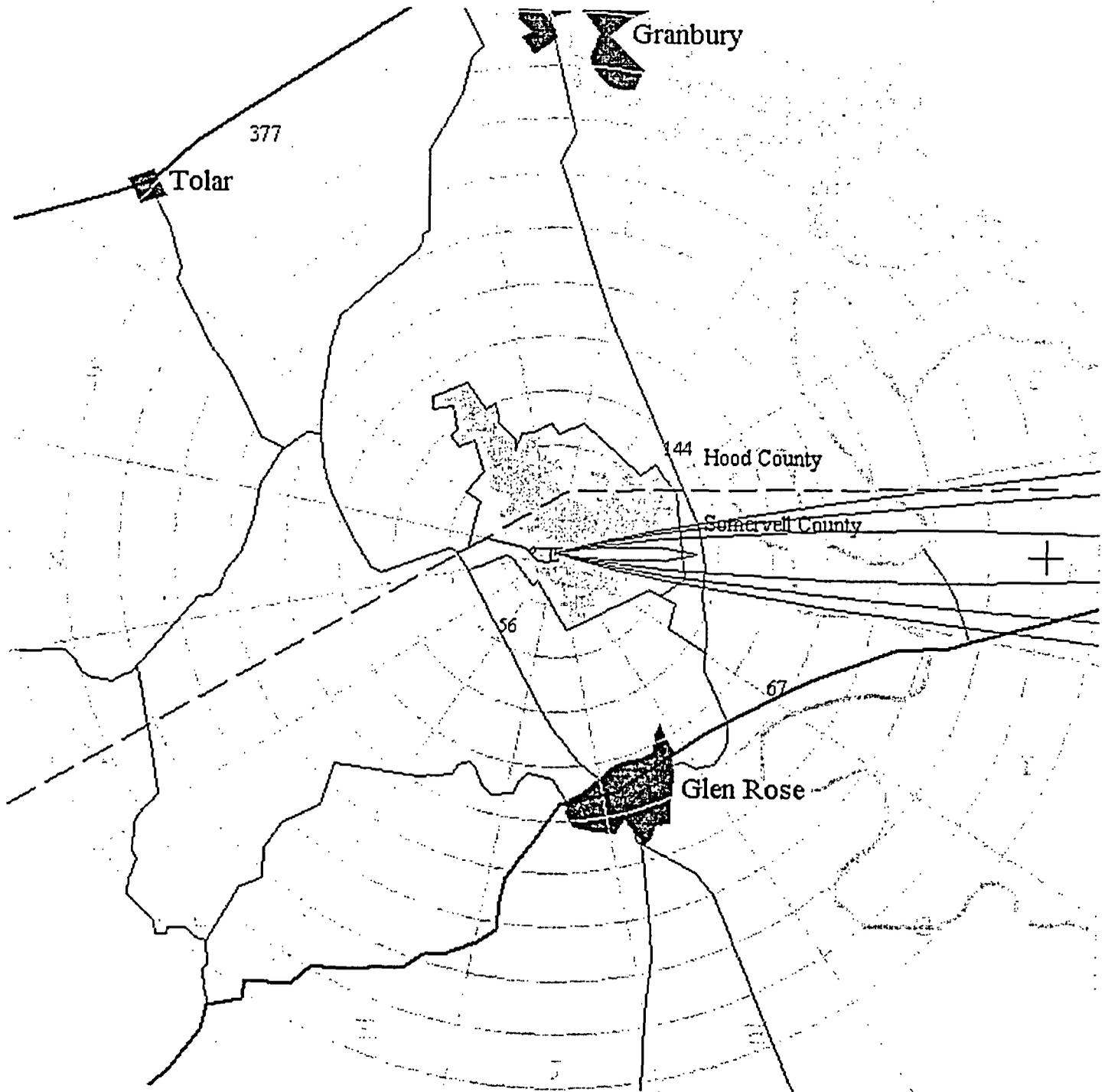
NG Dose Rate: 0.036 rem/hr

~~Thyroid Dose Rate: 0.333 rem/hr~~

Thyroid Dose Rate: 0.333 rem/hr

Airborne Partic: $1.05E-009$ uCi/cc - 65 NCPM

Airborne Iodine: $1.36E-006$ uCi/cc - $1.6E4$ NCPM



Distance: 9.0 mi.

Angle: 90

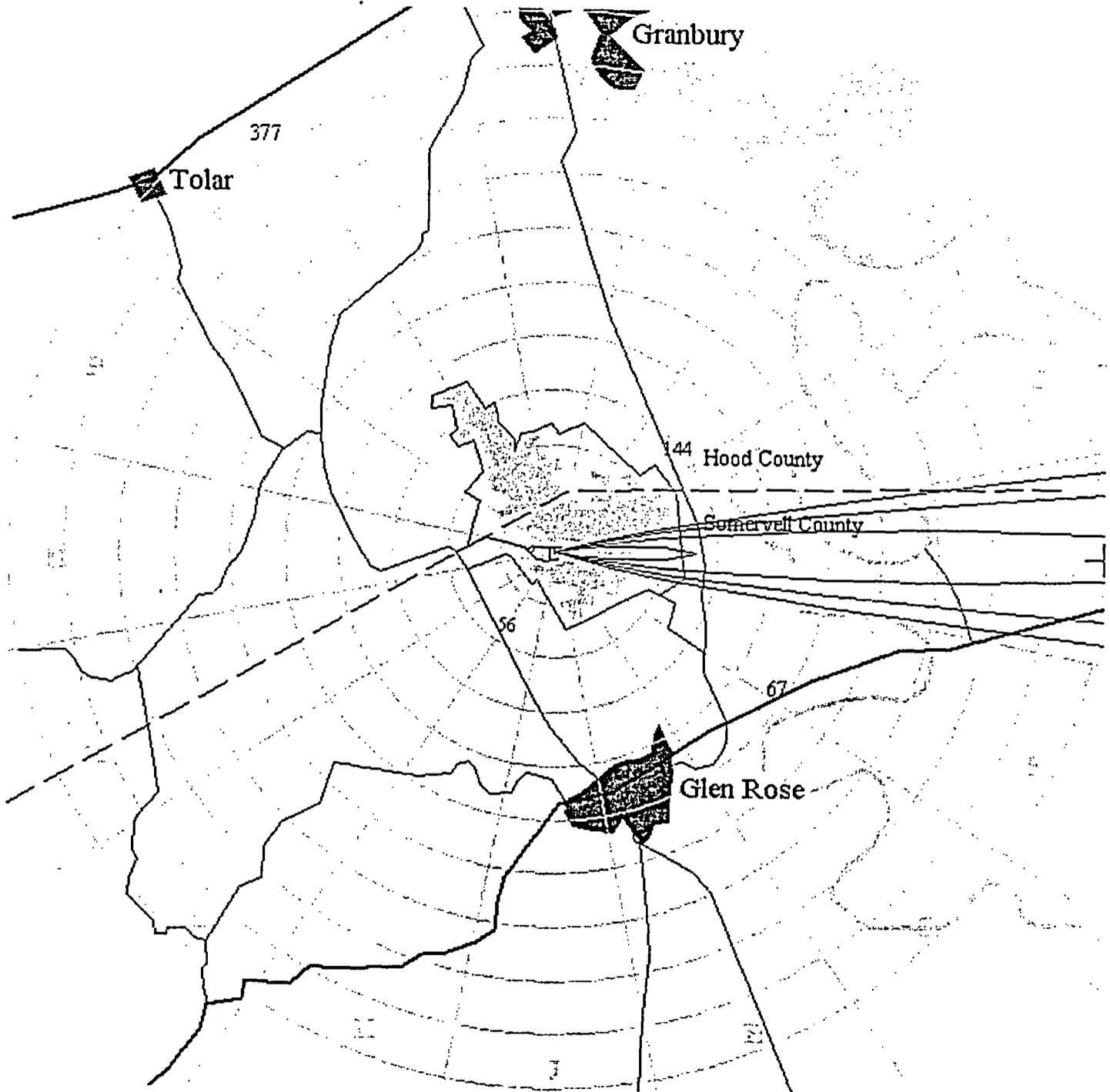
NG Dose Rate: 0.023 rem/hr

~~Thyroid Dose Rate: 0.034 rem/hr~~

Thyroid Dose Rate: 0.220 rem/hr

Airborne Partic: $6.94E-010$ uCi/cc - 43 NCPM

Airborne Iodine: $8.70E-007$ uCi/cc - $1.0 E4$ NCPM



Distance: 10.0 mi.

Angle: 90

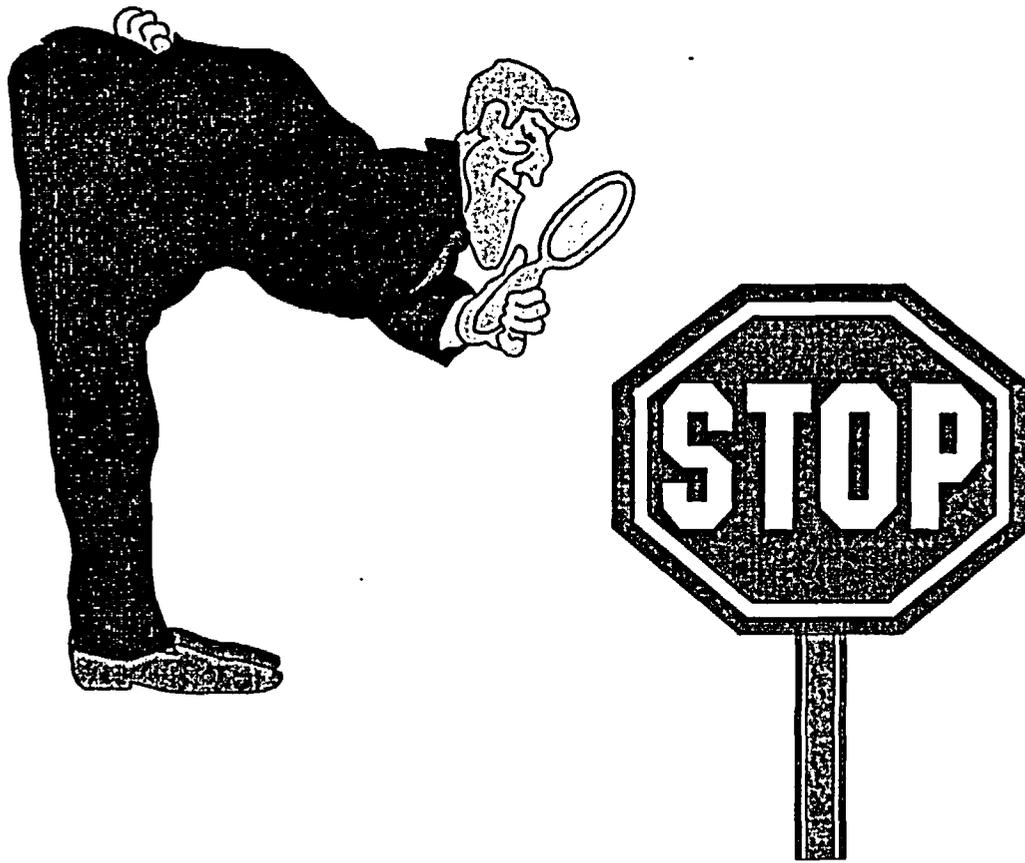
NG Dose Rate: 0.019 rem/hr

~~Thyroid Dose Rate: 0.188 rem/hr~~

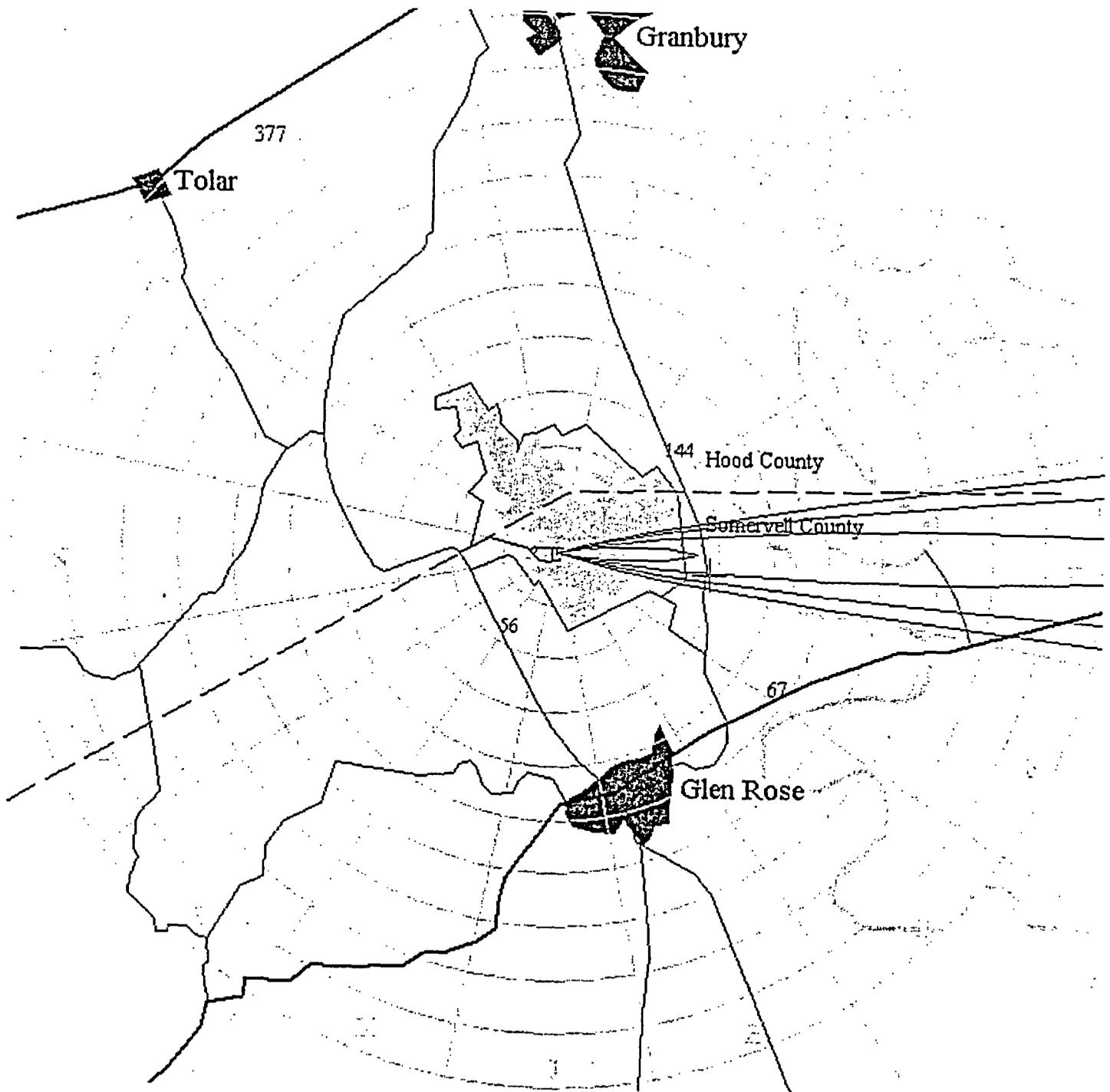
Thyroid Dose Rate: 0.188 rem/hr

Airborne Partic: 5.94E-010 uCi/cc -- 34 NCPM

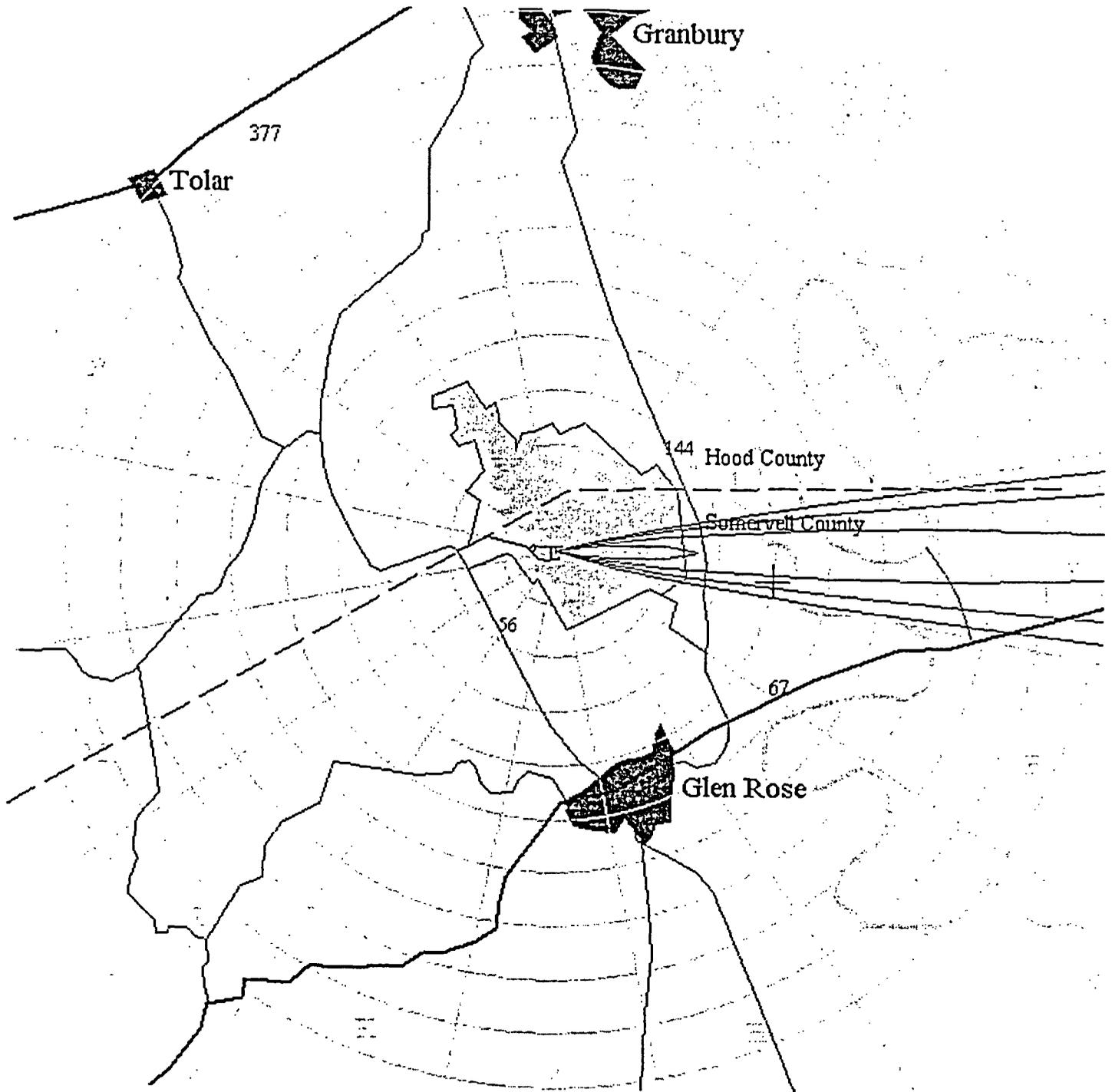
Airborne Iodine: 7.31E-007 uCi/cc -- 8.7 E3 NCPM



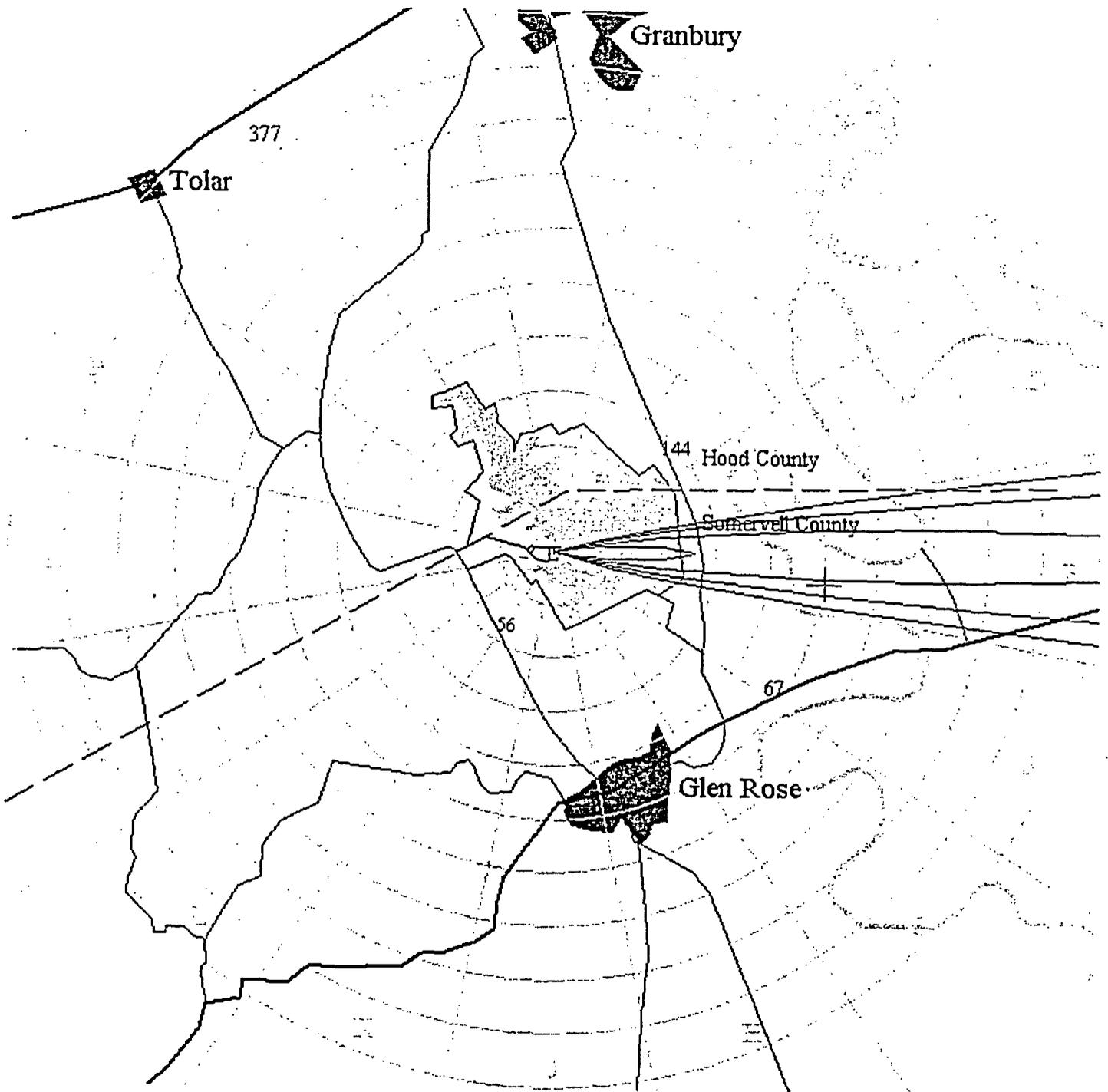
Expanded, off centerline data for State Teams



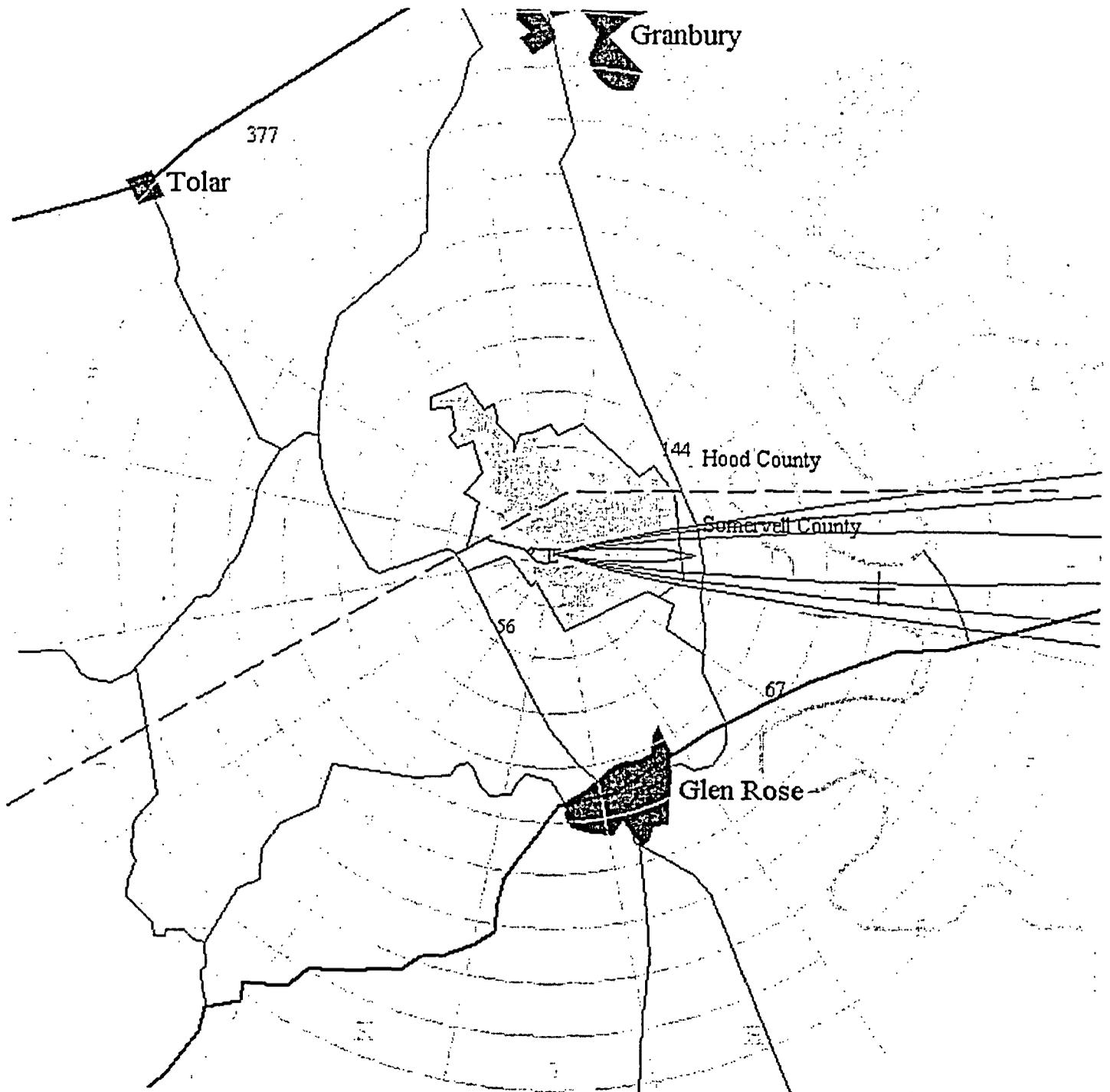
Distance: 2.8 mi.
Angle: 98
NG Dose Rate: 0.012 rem/hr
~~Thyroid Dose Rate: 0.094 rem/hr~~
Thyroid Dose Rate: 0.094 rem/hr
Airborne Partic: 2.95E-010 uCi/cc
Airborne Iodine: 4.18E-007 uCi/cc



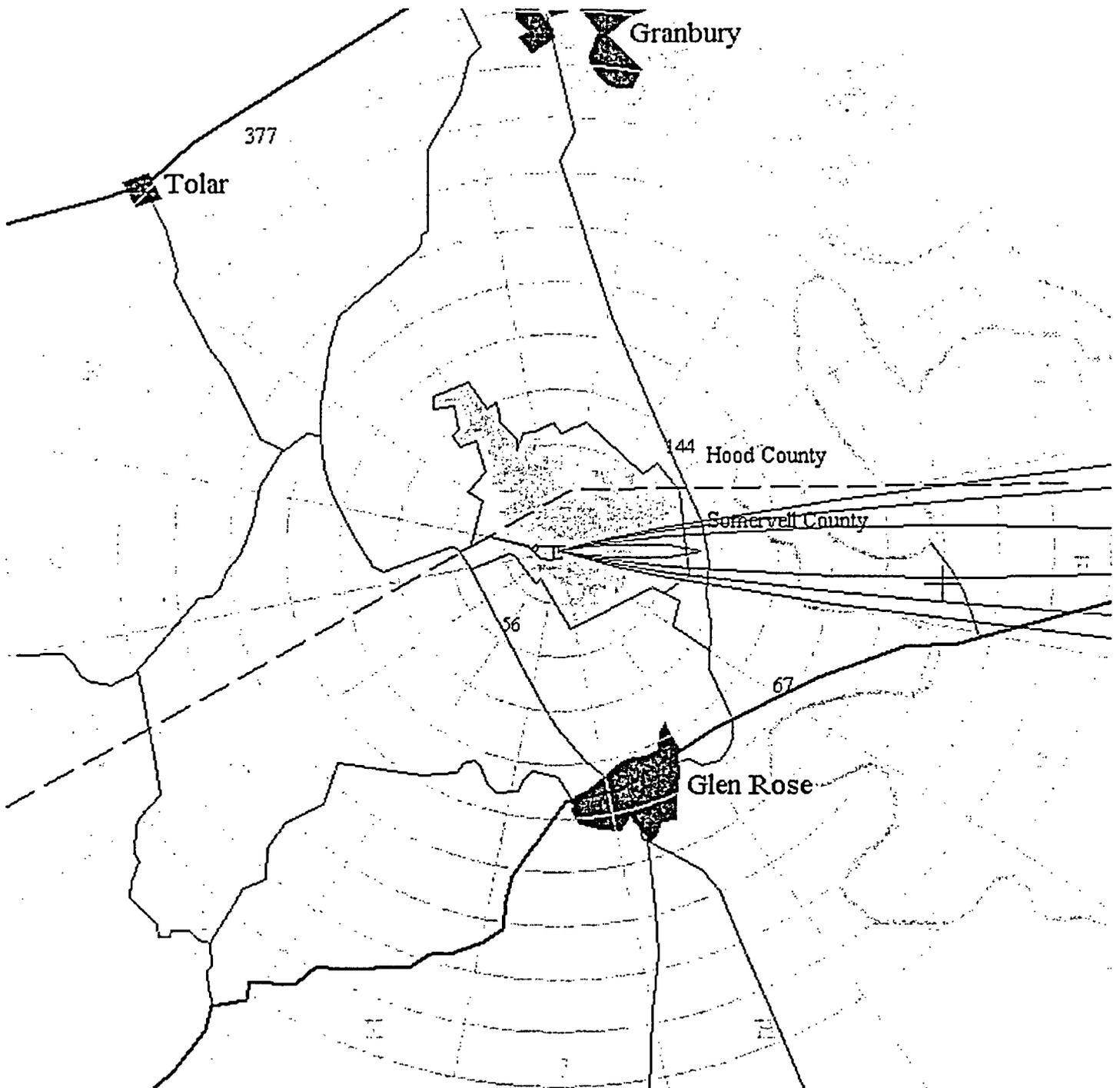
Distance: 4.0 mi.
Angle: 97
NG Dose Rate: 0.010 rem/hr
~~TEDE Dose Rate: 0.015 rem/hr~~
Thyroid Dose Rate: 0.086 rem/hr
Airborne Partic: 2.71E-010 uCi/cc
Airborne Iodine: 3.74E-007 uCi/cc



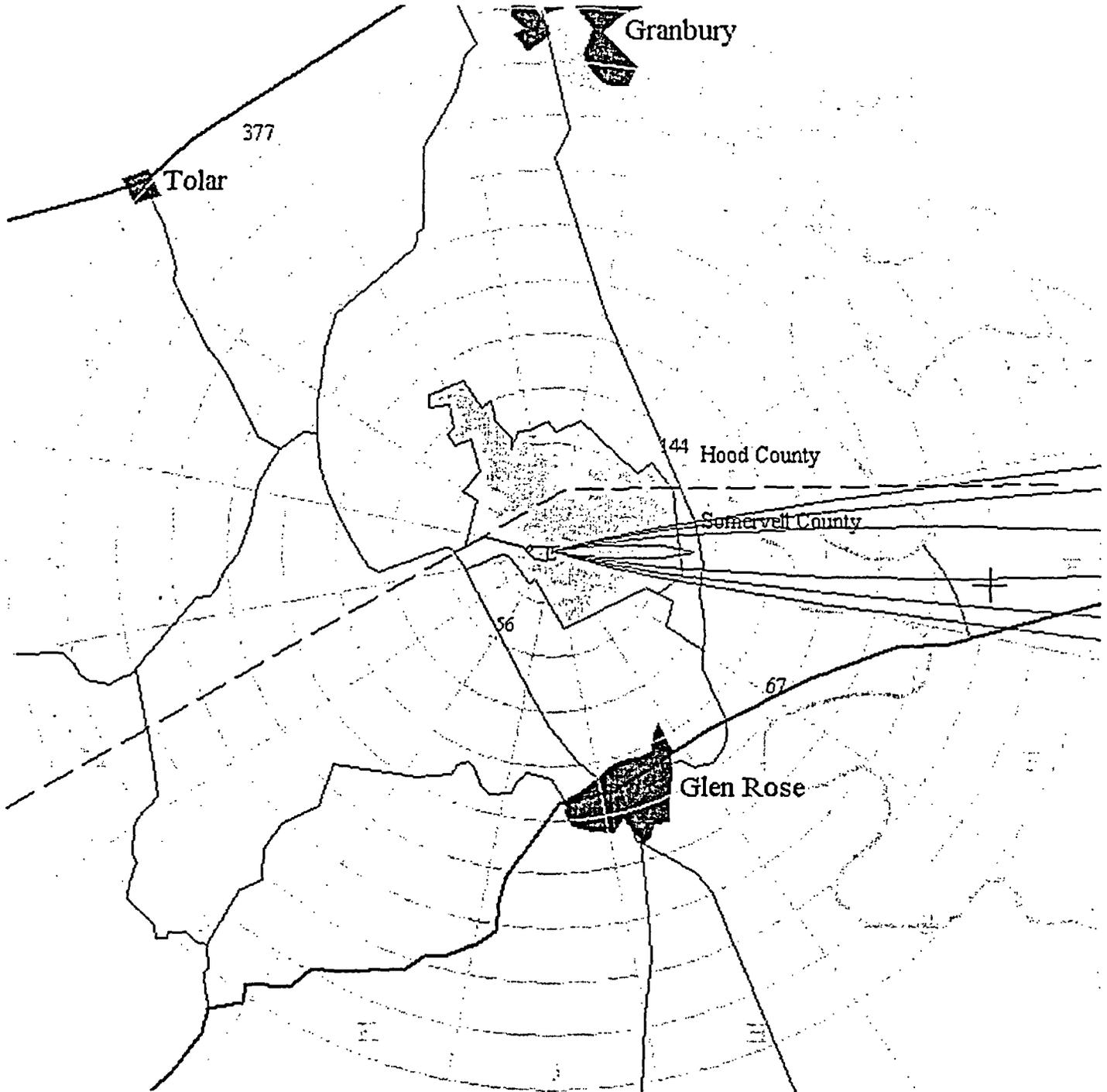
Distance: 5.0 mi.
Angle: 96
NG Dose Rate: 0.011 rem/hr
~~Thyroid Dose Rate: 0.099 rem/hr~~
Thyroid Dose Rate: 0.099 rem/hr
Airborne Partic: 3.09E-010 uCi/cc
Airborne Iodine: 4.19E-007 uCi/cc



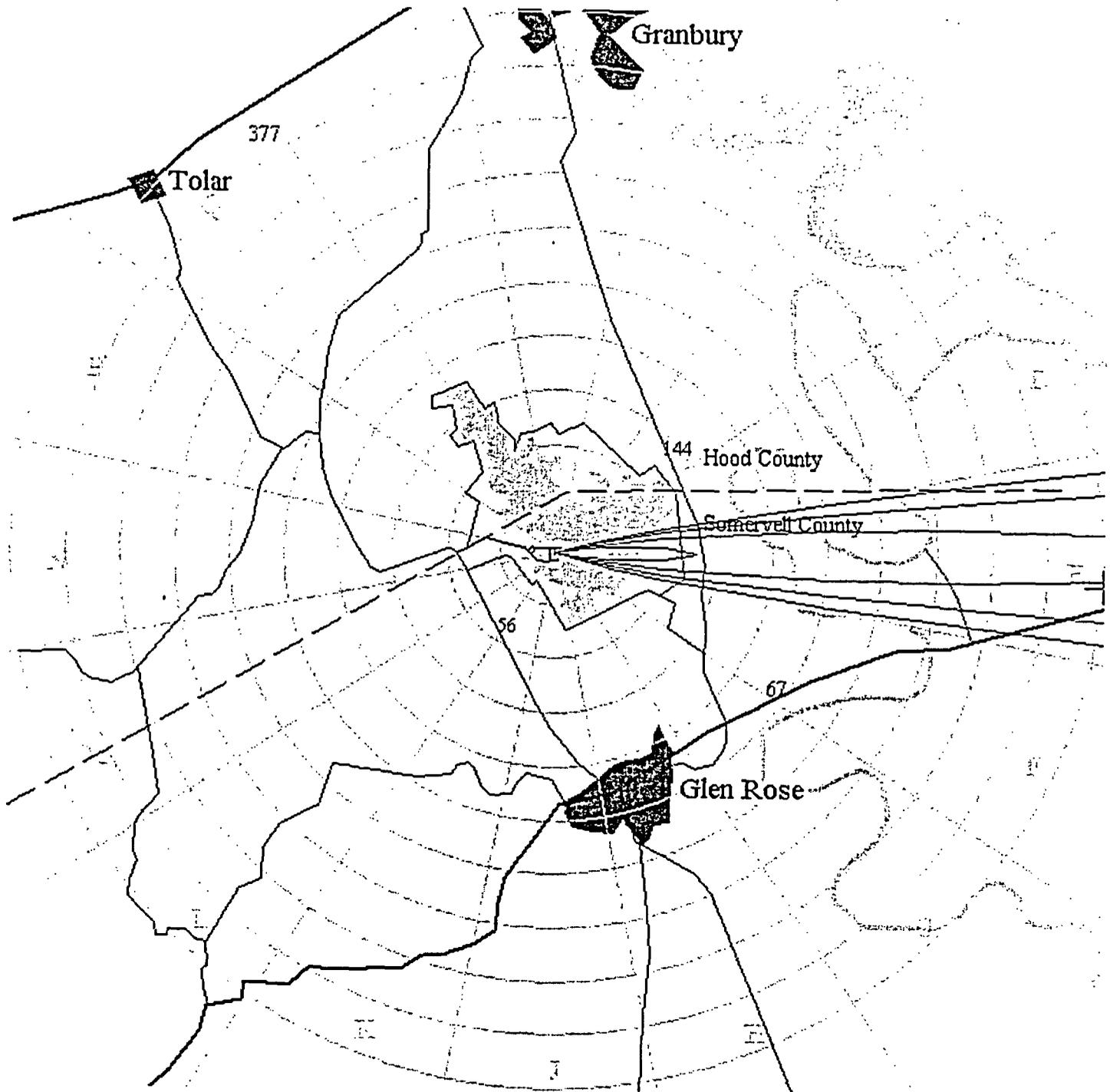
Distance: 6.0 mi.
Angle: 96
NG Dose Rate: 0.008 rem/hr
~~TEB~~
Thyroid Dose Rate: 0.069 rem/hr
Airborne Partic: 2.16E-010 uCi/cc
Airborne Iodine: 2.87E-007 uCi/cc



Distance: 7.0 mi.
Angle: 95
NG Dose Rate: 0.010 rem/hr
~~Thyroid Dose Rate: 0.089 rem/hr~~
Thyroid Dose Rate: 0.089 rem/hr
Airborne Partic: 2.80E-010 uCi/cc
Airborne Iodine: 3.64E-007 uCi/cc



Distance: 8.0 mi.
Angle: 94
NG Dose Rate: 0.012 rem/hr
~~Thyroid Dose Rate: 0.111 rem/hr~~
Thyroid Dose Rate: 0.111 rem/hr
Airborne Partic: 3.50E-010 uCi/cc
Airborne Iodine: 4.47E-007 uCi/cc



Distance: 10.0 mi.
Angle: 93
NG Dose Rate: 0.011 rem/hr
~~0.011 rem/hr~~
Thyroid Dose Rate: 0.111 rem/hr
Airborne Partic: 3.52E-010 uCi/cc
Airborne Iodine: 4.33E-007 uCi/cc