

U. S. NUCLEAR REGULATORY COMMISSION

REGION III

Report No. 50-461/86021(DRSS)

Docket No. 50-461

License No. CPPR-137

Licensee: Illinois Power Company  
500 South 27th Street  
Decatur, IL 62525

Facility Name: Clinton Power Station

Inspection At: Clinton Site, Clinton, IL

Inspection Conducted: March 10-14, 1986

Inspectors: T. Allen *W. Snell for*

3/26/86  
Date

J. Foster *W. Snell for*

3/26/86  
Date

M. Smith *W. Snell for*

3/26/86  
Date

Approved By: *W. Snell*  
W. Snell, Acting Chief  
Emergency Preparedness Section

3/26/86  
Date

Inspection Summary

Inspection on March 10-14, 1986 (Report No. 50-461/86021(DRSS))

Areas Inspected: Routine, announced inspection of the Clinton Power Station emergency preparedness program to evaluate licensee actions on previously identified emergency preparedness items. The inspection involved 132 inspector-hours by four NRC inspectors.

Results: No violations, or deviations were identified. However, there are 14 Open Items of which six require completion prior to fuel load.

## Details

### 1. Persons Contacted

- \*W. C. Gerstner, Executive Vice President
- \*J. Wilson, Plant Manager
- \*J. Perry, Manager, Nuclear Programs Coordination
- \*J. Greene, Manager, Startup
- \*J. Patten, Supervisor, Emergency Response
- \*G. Bell, Special Assistant
- \*E. Kant, Assistant Manager, NSED
- \*J. Skov, Supervisor, Commitments
- \*K. Graf, Director, Operations Monitoring
- \*H. Daniels, Project Manager
- \*J. Loomis, Construction Manager
- \*J. Palchak, Supervisor, Plant Support Services
- \*D. Hillyer, Director, Radiation Protection
- \*J. Wemlinger, Supervisor, Instruction NTD
- \*J. Brownell, Licensing Specialist
- \*D. Holtzsch, Director, Nuclear Safety
- D. Hall, Vice President
- D. Shelton, Manager, NSED
- D. Waddell, Assistant Supervisor, EP
- D. Schlatka, Baldwin Associates Project Manager
- W. Mullins, Supervisor, Chemistry
- J. Miller, Director, Startup Programs
- E. Corrigan, Quality Engineering & Verification
- K. Patterson, Director, Material Management
- R. Schuler, Director, Nuclear Training
- S. Foster, Emergency Planner
- W. Yarosz, Emergency Planner
- T. Carder, Emergency Planner
- D. Andrew, Assistant Shift Supervisor
- R. Reichert, Assistant Shift Supervisor
- J. Hall, Shift Technical Advisor
- B. Price, Assistant Shift Supervisor
- J. Eskrich, Shift Technical Advisor
- P. Yocum, Shift Supervisor
- G. Motsegood, Shift Technical Advisor
- B. Brehm, Shift Supervisor
- J. Neuschwangel, Assistant Shift Supervisor
- H. Nodine, Supervisor, CNI
- W. Clark, Assistant Supervisor, CNI
- D. Noble, Radiation Protection Shift Supervisor
- K. Evans, Emergency Planner
- J. Dodds, Training Instructor
- J. Dodson, Nuclear Information Coordinator
- J. Funk, Supervisor, Radiological Operations
- R. Snelson, Supervisory Engineer
- C. Lichfield, Computer Specialist
- D. Antonelli, Director, Plant Operations
- T. Froelich, Supervisor, Radiological Environmental
- W. MacDonald, Fire Marshal
- T. Roe, OSC Supervisor

\*Personnel listed above attended the exit interview on March 14, 1986.

2. Applicant Actions on Previously-Identified Open Items Related to Emergency Preparedness

461/85039-01 (Open) Emergency Organization Augmentation

The Applicant conducted a drill on February 13, 1986, to demonstrate the capability to implement staff augmentation in accordance with the CPS Emergency Plan. From the drill, the applicant determined that additional pagers should be leased to improve response times.

Inspection team members reviewed the February drill results and determined that only 45 percent of the 30 minute response minimum staffing goal was attained in 30 minutes and 70 percent of the 60 minute staffing goal in 60 minutes. The 30 minute minimum staffing level required 42 minutes for attainment and the minimum staffing level for the 60 minute goal required 92 minutes. Accordingly, the applicant must still demonstrate the capability to augment onsite staff within the 30 and 60 minute goals of Table B-1 of NUREG-0654, Revision 1, prior to fuel load.

461/85039-02 (Closed) Primary and Alternate Personnel Training

According to reviewed records and lesson plans, training of primary and alternate personnel has been completed. The inspector reviewed a computer printout listing Emergency Response Organization (ERO) personnel versus training requirements and records. This review consisted of a random selection of 20 names designated as second alternates. Planned training of designated third alternates will provide immediate replacement personnel for each ERO primary and alternate position. Currently, at least three trained personnel are available to fill each ERO position. This item is closed.

461/85039-03 (Closed) TSC and OSC Relocation

The inspector reviewed Temporary Change Forms (TCF) 86-03, 86-07, and 86-08. These TCFs specified that the TSC will relocate to the EOF and OSC personnel will relocate to the Service Building Lunch Room. In both cases the staffs will integrate, with the duties of all personnel remaining the same.

The Service Building Lunch Room is located across the hall from the Radiological Control Office, which will provide the means of maintaining radiological control for relocated OSC operations. One commercial pay telephone, three in-plant lines and the Gaitronics public address system are available in the Lunch Room for OSC personnel use in maintaining communications with integrated TSC and EOF personnel. This item is closed.

461/85039-04 (Closed) NRC Telephones in TSC

Two telephones designated "For NRC Personnel Use Only" were available and operational in the TSC's NRC Consultation Room. One of these phones is on an IP CENTREX PBX line for offsite calls and the other is on a CPS Focus PBX line for onsite calls. This item is closed.

461/85039-05 (Closed) Inventory Maintenance

Temporary Change Form (TCF) 85-19 revised EPIP FE-01 such that Section 4.4.4 requires quarterly (or following each TSC deactivation) inventory of the TSC supply cabinet, and Attachments 3 and 4 contain the inventory lists for the TSC supply cabinet and equipment.

The inspector reviewed the inventory check list against TSC supply cabinet supplies and determined the supply inventory is maintained and quarterly audits are conducted according to the revised procedure. This item is closed.

461/85039-06 (Closed) Monitoring System Training for TSC and EOF Personnel

Applicant personnel were able to demonstrate the operability of the Area Radiation Monitoring/Process Radiation Monitoring (ARM/PRM), Performance Monitoring System/Display Control System (PMS/DCS), and SPDS systems and that personnel had been trained in their use. The SPDS system appeared to be fully functional with two terminals available in the TSC. Applicant personnel were able to activate the ARM/PRM system in the TSC and demonstrated their ability to call up and display radiation levels/concentrations from plant radiation monitors. This item is closed.

461/85039-07 (Closed) OSC Location in EPIP

The inspector reviewed Temporary Change Form 86-08, issued February 2, 1986. This change identified the current location of the OSC in EPIP FE-02. This item is closed.

461/85039-08 (Closed) Operability of Telephone Systems in the OSC

An inspection of the OSC determined that the following telephones were available: two CPS Focus; three ringdown to the TSC; one ringdown to the MCR; one ringdown to the simulator; and one IP CENTREX. EPIP AP-09, Emergency Communications Operability Checks, specifies the surveillance frequency of these phones as monthly. Attachment 1 of AP-09, Communications Operability Check Log, is filled out each time these monthly telephone checks are made. A review was made of Attachment 1 dated February 21, 1986, that verified all the above phones in the OSC were operable. This item is closed.

461/85039-09 (Closed) Emergency Operations Facility Supplies

An inspector determined that EPIP FE-03, Emergency Operations Facility Operations, specifies the EOF supply cabinet contents, periodicity of inventory, and assigns responsibility for maintaining the supplies. A review of EOF supply Cabinet Inventory records indicates that adequate supplies are maintained at the EOF. This item is closed.

461/85039-10, 461/85039-11, 461/85039-12 (Open) Post Accident Sampling and Analysis Capability

An inspection and review of the wide range gas monitoring systems for the HVAC vent and Standby Gas Treatment Facility (SGTF) determined that all necessary sampling equipment is not yet available at the facility and the procedures for the collection of emergency or post accident samples from the HVAC vent and SGTF are not complete. Operative capability of the wide

range gas monitoring system has not been demonstrated. The applicant indicated their preference to demonstrate their capability in the above areas via a drill. The inspector stated that this should be acceptable. These three items now require completion before criticality.

#### 461/85039-13 (Closed) Offsite Laboratory Facility Capability

The inspector determined that the EOF Environmental Sample Analysis Laboratory Phoswich and Germanium detector systems were operable. The Phoswich detector gross alpha, beta, and gamma counter and the Germanium detector gamma spectroscopy capabilities were satisfactorily demonstrated to the inspector. This item is closed.

#### 461/85039-14 (Closed) Assembly and Reassembly Area Training

Training lesson plans were changed to include actual assembly and reassembly areas, and evacuation routes. Personnel who were previously trained received a summary of the changed assembly and reassembly areas incorporated into EPIP EC-08 via a Required Reading Route memo. After reviewing the changes, the memo must be signed and returned to the Training Department. These memos are required to be returned by March 24, 1986, at which time all personnel will be considered retrained. This item is closed.

#### 461/85039-15 (Closed) Assembly and Reassembly Areas and Evacuation Route Provisions

The inspector observed that signs had been conspicuously posted to designate and direct personnel to assembly and reassembly areas, and that equipment was available for contamination detection and removal. Area and route postings were acceptable and contamination detection/decontamination equipment was appropriate. This item is closed.

#### 461/85039-16 (Closed) Extremity Dosimetry in Emergency Kits

The inspection determined that EPIP FE-05, Emergency Kits, has been revised to require extremity monitoring personnel dosimetry devices in the OSC and hospital emergency kits. The presence of 29 extremity monitoring TLDs in the OSC kit was verified and the inventory document dated February 25, 1986, for the hospital kit was reviewed and it listed an inventory of 24 extremity monitoring TLDs. This item is closed.

#### 461/85039-17 (Closed) Meteorological System Accuracies

To ensure that the primary meteorological instrumentation meets the accuracies specified in ANSI/ANS 2.5-1984 and Regulatory Guide 1.97, the applicant conducted several calibrations of the system. Pre-op test procedure PTP-EM-01 was performed during September and October 1985, and CPS procedure 9437.14 was partially performed during March 1986. Due to rain during the performance of CPS 9437.14, the tower could not be climbed, which prevented some aspects of the procedure from being completed. However,



the applicant stated that as soon as wind speed and direction instruments that were currently being wind tunnel tested were returned, a complete recalibration would be done. The above calibrations that have been performed have indicated that the meteorological instrumentation does meet the accuracies specified in ANSI/ANS 2.5-1984 and Regulatory Guide 1.97. In addition, the applicant has initiated CR NO. 1-84-11-072 which recommended the calibration frequency be increased from the technical specification requirement of semi-annual to monthly for a period of three months. If the calibration results during this period are satisfactory, the time between calibrations will be expanded to every other month, then to quarterly, and finally to semi-annual, as the results dictate. This item is closed.

#### 461/85039-18 (Open) Meteorological Data Availability

Although the applicant's primary meteorological system has been operational for several years, no historical data availability information has been tabulated. In attempting to look at past data to address this item, it was discovered that poor surveillance on past analog charts made the data unusable. Therefore, the applicant has taken steps to improve analog chart surveillance and conduct a detailed data availability study for at least a three month period. Currently, Control Room Personnel are inspecting meteorological charts twice per shift to increase the quality of the recordkeeping.

Since it will take a period of at least three, and preferably six, months to get a representative sample for data availability, this item will be re-examined during the October 1986 exercise.

#### 461/85039-19 (Closed) Backup Meteorological Data

To provide a source of backup meteorological conditions, the applicant installed wind speed, wind direction and sigma theta instrumentation at the 10 meter level of the microwave tower. The microwave tower has a propane generator for a backup power supply, which will also power the backup meteorological instrumentation in the event of power loss. The data from these instruments will be available via printer output in the TSC in 1, 5, 10, 15, 30, or 60 minute intervals. Wind speed and wind direction can also be viewed on a digital display in the microwave hut at the base of the tower. This item is closed.

#### 461/85039-20 (Closed) NWS Forecast Information

The inspector reviewed TCF 85-18 for EPIP RA-01 and TCF 86-02 for EPIP EC-15. The changes specified by these TCFs in conjunction with what was already stated in the procedures provides adequate documentation to ensure National Weather Service forecast information will be obtained and incorporated into protective action recommendations and dose assessment. This item is closed.

#### 461/85039-21 (Closed) Meteorological Information

The inspector reviewed TCF 85-18 for EPIP RA-01. The changes initiated by TCF 85-18 correct the inaccurate and incomplete references to meteorological information that existed.

A review of EPIP RA-01 determined that it had not been revised to specify what averaging periods for meteorological data should be used in dose calculations. However, it was determined that the CRT printout automatically displays 10-minute averaging data, and hourly data can be obtained only if requested. In addition, the SAARS Emergency Dose Calculation Package automatically uses the 10-minute averaged data. Since the 10-minute averaged data is the default period that is displayed and used, this is considered sufficient to close this item. However, it is recommended that the procedure state the averaging period so the analog charts are read/averaged over a similar time period if they must be used. This item is closed.

#### 461/85039-22 (Closed) Emergency Protective Clothing

Protective clothing and equipment and their locations are specified in tables 3-4 and 3-8 of the CPS Emergency Plan. An inspection of the locations within the CPS protected area determined that the applicant had at least 50 sets of protective clothing available at each location. This item is closed.

#### 461/85039-23 (Open) Public Address System

Applicant personnel indicated that modifications to the Gaitronics public address system were in progress, and system testing had not been fully completed. Testing of the system is presently scheduled for completion in mid April, 1986, and must be completed prior to fuel load.

#### 461/85039-24 (Open) Emergency Alarms

Emergency alarms are to be provided by the Gaitronics public address system, which is in the process of modification and testing, as noted above.

#### 461/85039-25 (Closed) Damage Control/Corrective Action Equipment

The inspector determined that EPIP FE-05, Emergency Kits, specifies the locations, inventory and inventory frequency, document and material control, and maintenance responsibilities for emergency equipment. A review of inventory documents and inspection of material storage in the OSC indicates satisfactory stocking, organization and control of damage control/corrective action equipment and supplies. This item is closed.

#### 461/85039-26 (Open) Plant Operating, Off-Normal and Annunciator Procedures

Applicant personnel indicated that changes to add references/flags to emergency procedures in many of the relevant procedures were in-progress, but had not been completed. This open item must be completed prior to fuel load.

461/85039-27 (Closed) EAL Revision to Reduce Calculations

Procedure EC-02, Emergency Classification, Revision 1, was issued on March 10, 1986. A detailed review of the procedure indicated that those areas of the procedure previously requiring calculations had been revised to provide as-read or as-indicated parameters. Discussion with applicant personnel indicated that the values for parameters (previously calculated) had been conservatively determined, using worst-case conditions. The inspector reviewed the methodology for calculating gaseous release rate, and concurred that the method was conservative. This item is closed.

461/85039-28 (Closed) Revision of Emergency Plan Notification

The inspector reviewed EPIP EC-07, Revision 2, issued February 5, 1986. It was determined that redundant portions of the procedure had been deleted and the sequence of notifications had been reorganized and clarified. The revised procedure was considered adequate. This item is closed.

461/85039-29 (Closed) Revision of EIPs to Correct Notification Time

A review of EPIP EC-02 and EC-07 indicated that appropriate revisions had been made. Procedure EC-07, Emergency Plan Notification, Revision 2, issued February 5, 1986, had undergone major revision and correctly described required notification sequences and documentation. This item is closed.

461/85039-30 (Closed) Post Accident Sampling

The inspectors determined that CPS No. 1890.34, Post Accident Sampling, has been issued and establishes a step-by-step method for operating the Post Accident Sampling System (PASS). Inspectors observed the satisfactory use of CPS No. 1890.34 during a PASS walkthrough drill on March 12, 1986. This item is closed.

461/85039-31 (Closed) Assembly Areas

The inspector reviewed revisions to Section 4 of the Emergency Plan and EPIP EC-08 and EC-10. The inspector determined that the plan and procedures now correctly reflect the actual location of assembly areas. A review of training lesson plans determined that they have been revised to reflect the actual location of assembly areas. This item is closed.

461/85039-32 (Closed) Evacuation of Personnel Outside the Protected Area

The inspector reviewed Revision 1 of EPIP EC-09 and determined that, Sections 4.4.3.2 and 4.4.3.3, have been added to provide the criteria necessary to verify that personnel outside the protected area will receive and follow evacuation instructions. This item is closed.

461/85039-33 (Closed) Emergency Team Data Sheet

The inspector reviewed Advance Change Notice No. 2/1, which incorporated a new section into EPIP EC-12 to better address authorization for personnel



to exceed 10 CFR 20 exposure limits. The Emergency Team Data Sheet now has provisions for team members signatures acknowledging their understanding of mission risks. In addition, procedure RA-03, Radiological Exposure Guideline, provides for a certification signature by another person in the case of verbal authorization. This item is closed.

461/85039-34 (Closed) Joint Public Information Procedure Revision

Procedure PR-01, Joint Public Information Center Organization and Staffing, Revision 1, identifies media organizations, locations, and methods of contact during an emergency. Sections 4.3.1.4 and 4.3.2.5 of PR-01 provide instructions to the JPIC organization to notify media organizations during an emergency. This item is closed.

461/85039-35 (Closed) Coordination of Information

The inspector reviewed Advance Change Notice 2/1 for EPIP PR-04, Dissemination of IPC Emergency Information. Section 4.3 assigns information dissemination and organization responsibilities to the Public Affairs Department prior to JPIC activation. This item is closed.

461/85039-36 (Closed) Inventory and Maintenance of Emergency Equipment

An inspection determined that EPIP FE-05, Emergency Kits, specifies the inventory frequency and the responsibility for inventory and maintenance control of emergency equipment and kits except for fire brigade equipment. Fire fighting equipment maintenance and inventory requirements are provided in CPS 1001.06. CPS, Fire Brigade. Emergency equipment in the TSC, OSC, EOF, and IP Warehouse was checked and found acceptable. This item is closed.

461/85039-37 (Closed) Emergency Communication Testing

The inspection found that EPIP AP-09, Emergency Communications Operability Checks, specifies emergency communication equipment test frequency consistent with the requirements of 10 CFR 50, Appendix E, Section IV.E. Documentation of operability checks for the Main Control Room, TSC, and OSC were reviewed and found acceptable. This item is closed.

461/85039-38 (Closed) Letters of Agreement

A review of records determined that all appropriate Letters of Agreement have been obtained. Copies of signed Letters of Agreement were located in Appendix C of the Emergency Plan except for the letters from Radiation Management Corporation, Sargent and Lundy, and General Electric which had not yet been incorporated into Appendix C. This item is closed.

461/85039-39, 461/85039-40 (Closed) Public Information Brochure Dissemination

Public Information brochures were mailed to residents within the EPZ on November 21 and 22, 1985. To provide information to the transient population, brochures were also delivered to area hotels, motels and recreation areas on November 22, 1985. EPIP PR-05 provides instructions for quarterly

checks of brochure availability at the hotels, motels and recreation areas. The monthly newsletter, Clinton Communications, and newspaper notices informed residents of means to obtain copies of brochures if they did not receive one in the mail. These items are closed.

461/85039-41 (Closed) Siren System

Records reviewed indicated installation of 41 sirens was completed on January 19, 1986. The first integrated test was conducted on February 4, 1986, which found five sirens to be out of service. These sirens were repaired and a silent test of the entire system was conducted on February 17, 1986, which resulted in four different sirens being out of service. After further repairs, a second silent test was conducted on February 25, 1986, with two sirens out of service. To improve siren performance, the vendor replaced circuit boards in all 41 sirens. A monthly test was conducted on March 4, 1986, during which all sirens functioned. The sirens are scheduled to be tested monthly according to Illinois State Law. This item is closed.

461/85039-42 (Closed) News Media Orientation

The first annual Media Orientation session was conducted December 3, 1985. Nuclear power information packages were distributed to the attendees and publications concerning nuclear energy and a video tape concerning radiation were also available. A description of the JPIC and its function, was included in the lecture. The Illinois Power Public Affairs Department have committed to conduct an annual review of Media Information Kits to ensure the information is current.

The inspector review of lecture notes, the Media Information Kit, and attendance record indicated that the orientation was adequate. This item is closed.

461/85039-43 (Closed) Additional Training Regarding Emergency Classification

A review of a relevant training lesson plan and training records indicated that training had been performed to address the relationship of fission product barrier status to emergency action levels. Walkthroughs with Control Room personnel confirmed that the training had been performed and that they were knowledgeable of the fission product barrier/emergency level relationship. This item is closed.

461/85039-44 (Closed) Additional Training for Control Room Personnel

Training records indicated that a lesson plan titled "NRC Concerns from Emergency Plan Evaluation" had been developed and training had been provided to appropriate personnel. Walkthroughs with Control Room personnel indicated that training had been accomplished to address NRC concerns. Control Room personnel demonstrated a good knowledge of notification requirements, including message preparation and notification timeframes. Procedure EC-02, Revision 1, issued March 10, 1986, includes a recently developed NRC notification form. Control Room personnel were able to adequately demonstrate use of the new form during walkthroughs. This item is closed.

461/85039-45 (Closed) SAARS Emergency Dose Calculation Package Training

Applicant personnel were able to activate the SAARS Emergency Dose Calculation computer and demonstrate the use of the system, using data which had been generated for the previous facility exercise. This item is closed.

461/85039-46 (Closed) Protective Action Guide RA-02

The inspector reviewed Procedure RA-02, Revision 1, Attachment 1, "Flow Chart for General Emergency Offsite Protective Decisions". This flow chart is identical to that found in IE Information Notice 83-28 and provides for a simplified decisionmaking process related to protective action recommendations. During walkthroughs with operating shift personnel, they demonstrated the ability to use the flowchart correctly in making recommendations for offsite protective actions. This item is closed.

461/85039-47 (Closed) Formulating Protective Action Recommendations Training

The inspector reviewed lesson plan number 11203 "NRC Concerns from Emergency Plan Evaluations", which addresses formulating protective action recommendations, and related training records which indicated appropriate personnel had been trained. During walkthroughs, shift operating personnel were able to demonstrate the formulation of appropriate protective action recommendations using the flowchart as noted in the above item. This item is closed.

461/85040-01 (Open) Review of EAL Related to Explosions

The applicant indicated that a review of the EAL had been performed, and as the EAL met the guidance in NUREG-0654, had determined that no change to the EAL was required. The inspector expressed concern that misclassification of an explosion event was likely to occur due to the wording of the EAL. The EAL was discussed during walkthroughs with operators from three Control Room shifts, and each shift initially made improper classifications of events related to explosions. Applicant personnel indicated that the wording of the EAL will be revised and provided the inspector with a draft procedure revision. Therefore, pending procedure revision completion, this item will remain open and must be completed prior to fuel load.

461/85040-02 (Closed) Post Accident Sample Collection and Analysis

A Post Accident Sample System (PASS) walkthrough drill was conducted by the applicant on March 12, 1986. Operations were executed with no simulation and only minor prompting for a few panel steps requiring variance for existing plant conditions. Operators followed the procedures step-by-step (except for the above variations) and demonstrated their knowledge and familiarity with appropriate actions and equipment. PASS team members communicated throughout the drill to ensure that the TSC and OSC were kept informed of PASS status. Radiological controls at the PASS area and Chemistry Laboratory were good. The radiation protection technicians conducted periodic habitability surveys, directed contamination control actions, monitored the PASS panel and Chemistry Laboratory vent hood areas

at appropriate times for radiation level changes, and assisted operators with pocket dosimeter reading and glove changes. The PASS sample was correctly packaged, labeled, and transported to the laboratory. Sample preparations and analyses were completed in a well controlled and timely manner with minimal handling of the samples and final results available in less than three hours from sample decision time.

The drill scenario called for the analysis of two reactor coolant and one containment atmosphere sample. Gas sample bottle needle insertion and vacuum retention problems caused the PASS team to skip collection of the containment atmosphere sample. Two minor problems were noted during the coolant sample collection. The rubber spacer used to keep the sample collection syringe handle withdrawn came apart; and when the syringe was withdrawn from the panel the syringe needle flipped and could have caused the spread of radioactive contamination.

An inspector reviewed the training plans, participation records, and qualification cards for PASS sampling and analysis personnel. This training program appeared adequate, with 12 persons in the qualification process.

Based on the overall results of this drill, the applicant has satisfactorily demonstrated the capability to collect and analyze a PASS sample and this item is closed. However, the inspection team recommends that the collection of a containment atmosphere sample be demonstrated during the scheduled October 1986 exercise. In addition, the use of a better syringe handle spacer and a means of controlling potential radioactivity spread from the syringe needle during withdrawal of the syringe should be considered for PASS improvement.

#### 461/85040-04 (Closed) Subareas Map

The inspector reviewed an easel-mounted map located in the EOF which featured predefined subareas within the 10-mile EPZ. A small copy of this map is located at the Emergency Manager's desk. Temporary Change Form 86-02 adds the responsibility to the Emergency Advisor for ensuring that the Key Events Status Board identifies by subarea the PARs taken by off-site authorities. This item is closed.

### 3. New Open Items

#### a. EALS on Safety Relief Valve Failure

Discussion with Control Room personnel and a review of Procedure EC-02 indicated a disagreement between the Fission Product Barrier Initiating Events, Reactor Coolant Boundary, Stuck Open Safety Relief Valve (Attachment 1, page 3 of 7), and Other Hazards Initiating Events, Safety Relief Valve (Attachment 10, page 4 of 10). Both sections describe identical events (stuck open or failed safety relief valve), but one classifies the event as an Alert and the other one as an Unusual Event. Applicant personnel provided the

inspector with a copy of a draft revised procedure which deletes the conflicting section. This is an open item that must be corrected prior to fuel load (461/86021-01).

b. Item Meteorological Stability Class Determination

To resolve NRC concerns over a suitable backup source of meteorological data (Open Item No. 461/85039-19), the applicant installed backup meteorology instrumentation on the microwave tower. As a backup stability indicator, sigma theta, the standard deviation of wind direction fluctuations, will be computed from the wind direction measurements. However, EPIP's have no criteria to convert the data to a stability class or the hierarchy in which it is to be used. This is an open item that must be completed prior to exceeding 5% power. (461/86021-02)

4. Applicant Actions on Previously Identified Recommendations for Improvement

After an examination of the 32 Improvement Items previously identified to the Applicant, it was determined that the applicant: implemented the recommendations for Items 2, 4, 5, 7, 8, 9, 16, 17, 18, 20, 21, 26, 27, 28, 30, 31, and 32; is currently in the process of implementing the recommendations for Items 1, 10, 11, 12, 13, 15, 22, 23, 25, and 29; and has under consideration Items 3, 6, 14, 19, and 24.

5. Exit Interview

The inspectors held an exit interview on March 14, 1986, with the applicant representatives denoted in Section 1. The NRC team leader discussed the scope and findings of the inspection. The team leader also asked if any of the information discussed during the exit was proprietary. The applicant responded that none of the information should be proprietary.