



Federal Emergency Management Agency

Washington, D.C. 20472

DEC 1 1981

MEMORANDUM FOR: Brian Grimes
Director
Division of Emergency Preparedness
U. S. Nuclear Regulatory Commission

FROM:

Richard W. Krimm
Richard W. Krimm
Acting Assistant Associate Director
Office of Natural and Technological Hazards

SUBJECT: San Onofre Nuclear Generating Plant

Attached is a copy of a current findings evaluation of plans and implementation capabilities of State and local governments for the San Onofre (Cal) Nuclear Generating Plant.

Attachment

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was 12-2-81/10



Federal Emergency Management Agency

Region IX 211 Main Street, Room 220 San Francisco, CA 94105

NOV 16 1981

MEMORANDUM FOR THE ASSOCIATE DIRECTOR, STATE AND LOCAL PROGRAMS
AND SUPPORT DIRECTORATE

Attention: Robert T. Jaske, Acting Chief
Technological Hazards Division

FROM: *[Signature]* Francis S. Manda, Acting Regional Director

SUBJECT: FEMA Region IX Update Evaluation with Respect to the
Adequacy of Plans and the Implementation Capabilities
of State and Local Governments Related to San Onofre
Nuclear Generating Station

Subject update evaluation is attached for your information and
action. Accomplishment of the corrective action identified in the
body of the update evaluation should provide a reasonable assurance of
a capability to respond to an off-site emergency at the San Onofre
Nuclear Generating Station.

Attachment

NAS 12-2-81
YB

FEMA REGION IX UPDATE EVALUATION
WITH RESPECT TO THE
ADEQUACY OF PLANS AND THE IMPLEMENTATION CAPABILITIES OF
STATE AND LOCAL GOVERNMENTS RELATED TO
SAN ONOFRE NUCLEAR GENERATING STATION

I. INTRODUCTION

This evaluation serves to update the FEMA Region IX evaluation for the period ending May 22, 1981. Its purpose is to relate actions taken by Southern California Edison Company and the local jurisdictions and reflects upon only those actions taken and products generated since May 22, 1981. It does not address events or products before that date.

II. BASIS FOR EVALUATION

A. The basis for evaluation consists of documents submitted by Southern California Edison Company in their October 15, 1981, letter to the FEMA Region IX Regional Assistance Committee Chairman (attachment 1, without enclosures), and personal contacts, communications, and products received from the Utility and local jurisdictions between May 22, and November 5, 1981.

B. No drills or exercises were conducted during the period, nor are any scheduled as of November 5, 1981. Neither the State of California nor FEMA Region IX have attended or monitored any training to evaluate scope and content due to no formal advice of training nor formal submission of course schedules or related information.

III. STATUS OF EVENTS

A. General:

Subsequent to the initial review of the response capability related to the San Onofre Nuclear Generating Station (SONGS), the Interjurisdictional Planning Committee (IJPC) (comprised of all jurisdictions involved, as well as the Utility), was formalized and began a comprehensive review of the response capability. They have made great progress in addressing the corrective action items identified in the various assessments of the exercise and plan reviews. The jurisdictions reported on October 30, 1981, that they anticipated the identified Standing Operating Procedures (SOP's) and plan changes would be submitted to the respective governing bodies around or before the first of 1982. Draft SOP's submitted by the Utility served only as a starting point as they were not cooperatively developed. The IJPC meets monthly, and through continued work of sub-committees is actively working in developing SOP's and a totally coordinated response capability that when finally established, should offer an optimum cooperative response capability.

B. Equipment:

Equipment requested from the Utility is reported by Orange County and San Clemente to be about 90 percent delivered. San Diego County reported 100 percent delivery. FEMA Region IX Project Officer requested that a utility representative provide a listing of equipment identifying delivery addressees, dates of delivery, remaining equipment due-in dates, and related information to assist in an assessment of corrective action. The request was partially fulfilled, and requires further response to the above requested information.

C. Warning:

The Utility has chosen sirens as a means of alerting the population during an emergency. While the sirens have been installed within a 10 mile planning area, they have not been tested. A testing date was cancelled in late October, a few days prior to the test, and no schedule for testing has been identified. Operation of the system remains in the control of the Utility at this date. Sirens do not cover all of the city of San Juan Capistrano and the community of Dana Point. FEMA Region IX recommends, as does California Office of Emergency Services, that the Plume Exposure Pathway include entire jurisdictions as opposed to bisecting some (e.g., San Juan Capistrano) along the 10 mile radius. This would agree with current Orange County plan instructions. Some form of alerting of the area of San Juan Capistrano and Dana Point outside the 10 mile radius of the Emergency Planning Zone should be provided.

D. Standing Operating Procedures (SOP's):

The SOP's submitted by the Utility were represented as "a copy of all SOP's which have been developed by local government...." In fact, most jurisdictions reported that SOP development was done by the Utility's contractor; coordination of the SOP's with local government was minimal. All jurisdictions report that the submitted documents have not been approved, nor represent local jurisdictional plans. As such, while the submissions represent an effort by the Utility, it does not appear to improve the off-site response capability at this time. Further review of the SOP's reflects a number of inconsistencies. For example: (a) in at least three cases SOP's for different jurisdictions reflected duplicate information where such should not have occurred (Table 1, Agricultural Land Use, and Tables 7 and 9, Ingestion Pathway Sampling to SOP 13); and (b) the ODAC SOP was considered confusing, lacked clarity, and objectives were not clear.

E. State Planning:

The State of California Plan SOP's are being reviewed in draft form and considered to be due out in final around the end of January 1982.

F. Training:

Generally, the Utility submitted to Region IX an incomplete set of draft lesson plans. The submission lacked organization and an overview and a long term schedule of courses.

G. Corrective Action Compliance:

The Utility submission of corrective actions relates to some seven items identifying general action necessary to correct deficiencies developed in the initial evaluation process. (Reference attachment 2, Utility letter to B. Grimes, NRC, June 26, 1981.) An assessment of those actions as they relate to the format are identified below:

1. Training and equipment concerns have partially been met as referenced above. SOP development still remains to be finished by the State and local jurisdictions. SOP's submitted by the Utility require major modifications as discussed.
2. Emergency Operation Facility (EOF) procedures and development of an operations facility are satisfactory.
3. SOP development for monitoring and assessment duties is in its final stages by the jurisdictions. Drills remain to be conducted to demonstrate their applicability.
4. Siren tests remain to be conducted, although they are installed. An alerting capability for the balance of the San Juan Capistrano and Dana Point jurisdictions is recommended. The Utility is still working on this issue.
5. Equipment lists submitted were not clear as to what was promised locals as opposed to what has been delivered. Jurisdictions report about 90 percent has been delivered.
6. Training is being conducted and local jurisdiction personnel have attended courses. However, training program information submitted was confusing and unclear regarding courses, length of course, schedules, etc.. Further program clarification is requested for assessment. No drills have been conducted to date.
7. The Public Information program was submitted and is satisfactory.

IV. APPLICATION OF CRITERIA

The criteria for review and approval of radiological plans and preparedness as cited in 50.47 and 44 CFR 350.5 (proposed) were addressed in the initial review. Items previously found satisfactory were not restated. Those issues remaining open for further action are addressed below:

A. 350.5a(1). Due to the status of SOP development by the State and the local jurisdictions, this item remains to be reviewed and a finding reached upon completion of SOP's. This is estimated to occur in January 1982. At that time a clarification of monitoring and assessment duties may be determined. While a concern, this item is considered to be one that may be resolved within the next 90 days.

Orange County has reported actions being taken to resolve general jurisdictional response support to San Juan Capistrano during an emergency. When finalized, the cooperative response planning should alleviate the problem of personnel requirements in support of an emergency.

B. 350.5a(3). The interim EOF has been relocated to another area of the San Clemente Fire Department facility, increasing working space and separating the function from the San Clemente EOC. Procedures (SOP's) have been established for its operation. Communications systems have been added or modified to improve the general operations of the facility. A drill is recommended to test facility and personnel functions. EOF, ODAC, and Liaison SOP's need review by State and FEMA, and concurrence by all jurisdictions to validate operations and provide the basis for training users. A drill should be scheduled by January 31, 1982, conducted before April 1, 1982, and evaluated by State and FEMA personnel. Completion should reflect a reasonable assurance of meeting the standard.

C. 350.5a(5). The means for notification to the public remain to be tested. The installation of sirens has been completed, but tests have not been run. Further, sirens or alternative systems have not been installed or designed to cover all of the city of San Juan Capistrano and Dana Point. The Utility should provide complete alert coverage of the city of San Juan Capistrano and Dana Point as part of the Plume Exposure Pathway Emergency Planning Zone. Assuming the Utility meets the February 1982 date established by NRC and the tests are successful, this and related planning actions should assure compliance with standards.

D. 350.5a(7). The Utility has submitted a Public Information package that is comprehensive and addresses those areas of concern. Mailers have been sent out within the Plume Exposure Pathway, including all of the city of San Juan Capistrano. A continued program of information, resupply, and verification is recommended to assure thorough coverage of all of the affected population. Compliance with this standard is considered to have been met.

E. 350.5a(8). The Utility has procured and delivered to jurisdictions an estimated 90 percent of promised equipment. Assuming a favorable clarification regarding conflicts between submitted statements of the October 15, 1981, letter versus reports from jurisdictional personnel and/or final delivery of all equipment within a reasonable period of time, there is reasonable assurance this standard will be met.

F. 350.5a(9). While equipment has been procured and reportedly delivered, training and drill demonstration has not been completed. An Ingestion Pathway sampling drill should also be demonstrated when State and local procedures are resolved. These items should be scheduled by January 31, 1982, and drills conducted before April 1, 1982 (with the possible exception of Ingestion Pathway due to State plan/SOP support). These drills should also be monitored by State and FEMA personnel.

G. 350.5a(14). As indicated in B and F above, drills should be conducted to train, test, and demonstrate an ability to coordinate and execute necessary SOP's and plans. The Utility should establish drills in conjunction with State and local jurisdictions (giving priority and emphasis to their schedules and requirements) to meet drill requirements. Coordination and review by FEMA Region IX is recommended to assure satisfactory accomplishment of requirements.

H. 350.5a(15). The training materials provided by the Utility have not clearly demonstrated an organized program with clear definition of objectives, outline of courses, schedules of training and concurrence involved parties in course selection, content, or schedules. Lesson plans were in draft and did not have titles, course times, or detail to clearly define a training program. The Utility should revise or reorganize their training program in conjunction with State and local agencies, and forward a product addressing the above mentioned items on or before March 1, 1982, to FEMA Region IX. Assuming this is accomplished and that predetermined subjects are included as identified in prior discussions and correspondence, this standard could reasonably be considered to have been met.

I. 350.5a(16). Local jurisdictions and the State are contemplating delivery of revised plans and finished SOP's around February 1, 1982. Assuming these estimates are generally met, the requirements for SOP's and revised plans can be presumed to be met in the near future. The Utility submission of SOP's relating to ECF actions should be considered to require further coordination with local, State, and FEMA Region IX personnel and a revision to those SOP's developed for review by March 1, 1982. A meeting to discuss the nature of the revisions should be scheduled by January 1, 1982.

V. INTERIM RE-EVALUATION

A. The actions voluntarily taken by the local jurisdictions in response to the initial findings and their accomplishments at this juncture have been excellent. Staff members are currently working to update SOP's and revise plans, and have attended training offered by various organizations. The Utility corrective actions have reflected an interest in meeting the standards but require a redirection of effort to take advantage of other available sources of information regarding planning and training. A reassertion of cooperation and coordination by the Utility towards all parties involved is highly recommended to enhance and expedite corrective actions identified.

B. Assuming that the efforts identified continue to fruition and that drills are conducted within the identified time frames, there is a reasonable assurance that a capability to provide emergency response will exist within the near future as regards San Onofre Nuclear Generating Station off-site emergency response.

Attachments 2

Southern California Edison Company



P. O. BOX 800

2244 WALNUT GROVE AVENUE
ROSEMEAD CALIFORNIA 91770

K. P. BASKIN

MANAGER OF NUCLEAR ENGINEERING,
SAFETY, AND LICENSING

October 15, 1981

TELEPHONE
(913) 572-1401

Mr. Ronald H. Sandwina
Chairman, Regional Assistance Committee
Federal Emergency Management Agency
Region IX
211 Main Street, Room 220
San Francisco, California 94105

Dear Mr. Sandwina:

SUBJECT: Final Report
Action Plan to Address FEMA's
Evaluation Dated June 3, 1981

REFERENCES: (a) SCE (K.P. Baskin) letter to the
NRC (Brian Grimes) dated June 26, 1981,
subject: Emergency Planning, San
Onofre Nuclear Generating Station,
Unit No. 1, Docket No. 50-206.

(b) FEMA (R.T. Jaske) memorandum
to the NRC (Brian Grimes) dated
July 14, 1981, subject: Emergency
Preparedness and Support of San
Onofre Nuclear Generating Station.

(c) SCE (K.P. Baskin) letter to you
dated July 16, 1981, subject: Progress
Report, Action Plan to Address FEMA's
Evaluation Dated June 3, 1981.

(d) SCE (K.P. Baskin) letter to you
dated August 14, 1981, subject: Progress
Report, Action Plan to Address FEMA's
Evaluation Dated June 3, 1981.

(e) SCE (K.P. Baskin) letter to you
dated September 15, 1981, subject:
Progress Report, Action Plan to
Address FEMA's Evaluation Dated
June 3, 1981.

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October 15, 1981

(f) Federal Register, Vol. 46,
page 46587-46588, (September 21, 1981),
NRC Notice of Proposed Rulemaking.

- ENCLOSURES:
- (1) Standard Operating Procedures of local government with radiological emergency response plans for San Onofre.
 - (2) Listing of radiation monitoring and related equipment in the possession of local government with radiation monitoring responsibilities around San Onofre.
 - (3) Description of upgraded communications capability involving San Onofre Emergency Response Organizations.
 - (4) Description of the Emergency Operations Facility for San Onofre.
 - (5) Description of public alerting (siren) system for persons within the Plume Exposure Pathway EPZ.
 - (6) Description of training programs and training accomplished for personnel having emergency response responsibility for San Onofre.
 - (7) Description of public information programs and completed public information dissemination.

The purpose of this letter is to report the completion of all action which was agreed upon at our meeting on June 15, 1981, as being necessary to resolve the FEMA concerns set forth in the "Interim Findings and Determination Relating to the Status of State and Local Emergency Preparedness for the San Onofre Nuclear Generating Station" dated June 3, 1981. Enclosure (2) of reference (a) provided a summary of the intended action, and reference (b) confirmed that such measures would constitute sufficient corrective action. References (c), (d), and (e) provided reports of progress made towards the accomplishment of the agreed-upon objectives.

The enclosures to this letter provide documentation of the actual results achieved. Each enclosure is keyed to the seven numbered action items set forth in the "Summary of Planned Action" (enclosure (2) of reference (a)) as discussed below:

1. Enclosure (1) consists of a copy of all SOP's which have been developed by local government (with SCE support) and are considered to have sufficient breadth and scope to satisfy FEMA's concerns with respect to procedures expressed in items (1), (2), (3), and (4) of enclosure (1) of reference (a). Additional SOP's have also been drafted covering subjects beyond those identified by FEMA, copies of which are also included. These correspond to item 1 (i) given in enclosure (2) of reference (a) for which the schedule was final draft by November 1, 1981, and implementation by December 1, 1981.
2. Enclosure (2) sets forth the lists of equipment relating to radiation monitoring functions which are now in the possession of the appropriate local governmental organizations. This is considered to fully resolve FEMA's concerns regarding equipment weaknesses expressed in item (1) set forth in enclosure (1) of reference (a).
3. Enclosure (3) is a description of enhancements made to the emergency communications systems. This is considered to fully respond to FEMA's recommendation for additional communications equipment expressed in item (5) set forth in enclosure (1) of reference (a).
4. Enclosure (4) describes the arrangements which have been made to improve the EOF operations. The present operational procedures, staffing, and physical arrangements are considered to entirely meet FEMA's recommendations expressed in item (2) set forth in enclosure (1) of reference (a).
5. Enclosure (5) describes the engineering of the public alert (siren) system. This system is completely constructed and will undergo acceptance testing early in November. This system, in conjunction with the notification procedures given in enclosure (1), is considered to fully resolve FEMA's concerns expressed in item (4) of enclosure (1) of reference (a).


October 15, 1981

It should also be noted that reference (f) sets forth the NRC's intentions to revise its regulations to defer until February 1, 1982, its requirements for prompt notification systems.

6. Enclosure (6) sets forth SCE's programs for the training of offsite emergency response personnel. Actual training which has been accomplished as well as future training which has a definite schedule is described. SCE's commitment to provide training is considered to fully respond to FEMA's recommendation given in item (6) set forth in enclosure (1) of reference (a).
7. Enclosure (7) sets forth SCE's public education program and provides samples of public information material which has been distributed to local population groups. The action taken to date in conjunction with SCE's commitment for continuing public education fully resolves FEMA's concerns expressed in item (7) set forth in enclosure (1) of reference (a).

It is believed that the foregoing completes the immediate action previously agreed to which will serve as a basis of revised FEMA findings of overall adequacy. If there are any questions, do not hesitate to contact me.

Very truly yours,



K.P. Baskin

Enclosures

cc: R.H. Engelken, NRC, Region V
J.J. Kearns, California OES
IPC Representatives

Southern California Edison Company

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2244 WALNUT GROVE AVENUE
ROSEMead, CALIFORNIA 91770

K. P. BASKIN

MANAGER OF NUCLEAR ENGINEERING,
SAFETY, AND LICENSING

June 26, 1981

TELEPHONE
(818) 572-1000

Mr. Brian K. Grimes
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Grimes:

SUBJECT: Emergency Planning
San Onofre Nuclear Generating Station
Unit No. 1
Docket No. 50-206

We have reviewed the "Interim Findings and Determination Relating to the Status of State and Local Emergency Preparedness for the San Onofre Nuclear Generating Station" prepared by the Federal Emergency Management Agency (FEMA) dated June 3, 1981. Copies of this status report have also been distributed to the affected local jurisdictions for their review. The purpose of this letter is to report on followup action which is contemplated by SCE to support State and local jurisdictions to achieve substantial improvements in certain areas identified in the FEMA report, and to set forth the schedule for the accomplishment of these improvements.

At the time of FEMA's "Interim Findings and Determination" SCE recognized that several topics required further development. Most of the required action involved development of procedures. Indeed, the lack of SOP's covering various activities appears to have unduly influenced the severity of the adverse FEMA conclusions.

Meetings were held on June 10 and June 17, 1981 involving all local jurisdictions and SCE to develop a plan of action for the continuing development of emergency preparedness. In addition, SCE met with FEMA Region IX representatives on June 15 and June 19, 1981 to reach an understanding as to the relative significance of its findings and recommendations. Enclosure (1) to this letter entitled "Corrective Actions Required to Address FEMA Determinations of June 3, 1981" sets forth the scope of the significant areas and a description of the actions which will form the basis of updated FEMA finding of overall adequacy. Enclosure (2) is an updated summary of the corrective action to address all areas

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needing development and a schedule for the accomplishment of each topic. Those items shown with a completion date on or before October 15, 1981 are considered to be sufficient to yield favorable FEMA findings.

We consider that State and local governments have done a remarkably good job in achieving a good state of preparedness in the critical areas important for the protection of the public. This work has included preparation and formal adoption by the highest authority for each local jurisdiction (except for State agencies) of radiological emergency response plans and establishment of a local interagency coordination group.

We intend to give the strongest possible support to the local agencies in undertaking planned improvements. We are confident that the combined SCE/local government agency effort will fully satisfy NRC requirements for emergency preparedness in a timely manner.

Very truly yours,

K. P. Baskin

Attachments

cc: John E. Dickey, FEMA
Francis S. Manda, FEMA, Region IX
R. H. Engelken, NRC, I & E Region V
R. Sandwina, FEMA, Region IX
Ms. Barbara Fox, Orange County
J. Hunt, San Diego County
R. Coleman, City of San Clemente
Ms. Cynthia Ferguson, City of San Juan Capistrano
J. Stowe, State Parks & Recreation - Pendleton Area
Lt. Col. J. Wallace, USMC, Camp Pendleton
J. Kearns, State OES

CORRECTIVE ACTIONS REQUIRED TO ADDRESS FEMA DETERMINATIONS OF JUNE 3, 1981*

ENCLOSURE (1)

FEMA CONCERNS

FEMA RECOMMENDATION

RESPONSE**

FEMA Region IX Evaluation of Plans and Capabilities

"Most Critical Concern"

1. The assessment and monitoring of actual offsite radiological consequences of a radiological emergency condition through methods, systems and equipment is considered to be weak and in need of improvement to meet minimum criteria.

Develop a multi jurisdictional response capability to assure adequate coverage of plume pathway and standardized procedures which allow flexibility in response.

Continue to install the Health Physics Computer which will provide a prompt conservative assessment of the actual radiological consequences of an accident. This will be operational to a limited degree by full load with full operation expected by July, 1982. Further develop standard radiological monitoring procedures (SOP's) for the local jurisdictions and Offsite Dose Assessment Center (ODAC) by August, 1981. SCE additionally will assess the local jurisdictions' current equipment against their needs and identify any deficiencies noted. SCE will provide staffing to assume a role of leadership in function. SCE will provide training programs for personnel involved in use of the SOP's.

"Serious Concern"

2. The interim - EOF shows a lack of clear operating procedures, fragmentation of the facility, lack of management direction communications, size of the facility, and is a significant impediment to the San Clemente EOC operation.

Until the permanent EOF is completed, the interim EOF should be relocated to a single location separate from the San Clemente EOC and staffed with management, communicators and other support personnel necessary for EOF operations.

SCE will develop SOP's to make current EOF operation clearer and more manageable along the lines of the current planning arrangements. Limited physical improvements of the present facilities will be identified and accomplished.

*The schedule for these actions is identified in ENCLOSURE (2)

**As a result of a meeting between FEMA and SCE on June 15, 1981, it is SCE's understanding that the significant concerns addressed in the FEMA Region IX Evaluation of the May 13, 1981 Exercise are covered in these planned actions.

FEMA CONCERNS

"Major Concerns"

3. A need to clarify monitoring and assessment duties for both plume and ingestion pathways as they pertain to State OES, State Radiological Health and local jurisdiction.

4. Means to provide early notification and clear instructions to the public within the plume exposure pathway EPZ have not been installed or tested.

5. Adequate emergency facilities and equipment to support the emergency response have not been provided.

6. Radiological emergency response training has essentially not been provided to those who may be called upon to assist in an emergency.

FEMA RECOMMENDATION

Develop a joint standardized multi-jurisdictional response team.

Install sirens and provide warning dissemination capacity to remote areas where public address systems from surface or airborne vehicle is required.

SCE provide response equipment which was promised to the local jurisdictions, including sirens and additional communications equipment.

SCE, in conjunction with the State of California, should develop the necessary training to meet the identified needs in the local jurisdictions.

RESPONSES

(See item [1] above). SCE will develop standardized procedures for the five involved counties to obtain samples, conduct analyses, and take necessary protective actions for the ingestion pathway emergency planning zone consistent with the State Radiological Health proposed ingestion pathway procedures. Develop an integrated radiological response team to be directed by the Offsite Dose Assessment Center (UDAC) to conduct field monitoring.

SCE will proceed with current plans for siren installation. SCE will develop SOP's for public notification via Emergency Broadcast System (EBS) and local stations identified in the plans. SCE will develop SOP's for coordination and decision making in use of sirens.

Agreements have been made between SCE and local agencies that specific equipment will be ordered by the local jurisdictions and billed to SCE. Equipment procurement has begun and is continuing. SCE will follow up with the status of equipment received or on order. SCE will monitor equipment needs and status of equipment procurement activities.

(See items [1] and [3] above). SCE will develop and implement a program of training in the critical areas of radiation monitoring and assessment, communications, decision-making and coordination regarding protective actions, etc.

FEMA CONCERNSFEMA RECOMMENDATIONRESPONSES

"Sufficient Concern to
Remain a Major Issue"

7. SCE has not made information available about how the public would be notified or what the public's initial actions should be in an emergency.

Disseminate advance public information.

SCE will proceed with the public education program that includes an emergency response brochure and information brochure mailer, preparation and distribution of flyers and posters, new ads, community meetings, etc.

SUMMARY OF PLANNED ACTION

SCHEDULE

1. Develop SOP's covering the following topics:
- a. Operation of the Offsite Dose Assessment Center (ODAC)
 - b. Radiation surveys by field monitoring teams
 - c. Emergency Communications
 - d. Use of the siren alerting system and public notification
 - e. Coordination relating to protective actions
 - f. Acquisition, display and use of meteorological data
 - g. Operation of the EOF
 - h. Ingestion pathway monitoring
 - i. Existing SOP's covering other plan elements
2. Obtain equipment required to carry out radiation monitoring functions
- a. Survey types and quantities of equipment actually in place 7/15/81
 - b. Initiate procurement of equipment shortages 8/1/81 *Delivery Sept 10, 1981*
3. Develop additional communications capability
- a. Expand interagency phone network to include CHP 7/15/81 *done now*
 - b. Provide speaker monitors at EOC's 7/15/81 *done now*
 - c. Provide teletype message system network between all principal centers 10/15/81
 - d. Provide additional communication circuits 10/15/81
4. Make physical improvements to the EOF
- a. Identify possible improvements 9/1/81
 - b. Obtain agreements to make improvements 9/1/81
 - c. Construct improvements 10/15/81
5. Install Sirens
- 50% by 7/1/81
90% by 9/1/81
100% by 10/15/81
all in now
- Items (a) through
1st draft - 7/15/81
Final draft - 9/1/81
Implement - ~~10/1/81~~
10/15/81
- Item (i):
1st draft - 9/15/81
Final draft - 11/1/81
Implement - 12/1/81

SCHEDULE

6. Accomplish training in use of new and existing procedures, facilities, and equipment.

a. Develop training program (long and short term)

7/15/81

b. Develop training material (short term program)

~~9/1/81~~ 9/15/81

c. Conduct training and drills (short term program)

9/1/81 through
10/15/81

d. Implement long term training program

11/1/81 through
2/1/82

7. Public Information Program

Ongoing.
Initial program
complete 9/1/81