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Catawba Nuclear Station
Emergency Plan
Section M - Recovery and Re-entry Planning and
Post-Accident Operations

M. RECOVERY AND REENTRY PLANNING AND POSTACCIDENT OPERATIONS

M.1 Reentry/Recovery Plans and Procedures

In any site emergency involving radioactive contamination or other emergency condition, the immediate action is directed to limiting the consequences of the incident in a manner that will afford maximum protection to the public. Once the immediate protective actions have established an effective control over the incident, the emergency actions will shift into the recovery phase. AD-EP-ALL-0110, Recovery, provides guidance in establishing the recovery and reentry organization and actions. The EOF Director will inform members of the response organization that a recovery operation is to be initiated and inform them of any changes in the organization that may occur. Implementation of Recovery Operations would occur as follows:

1. Termination of General Emergency or Site Area Emergency
2. De-escalation to Non-Emergency Condition
3. Activation of Recovery Organization

The emergency is not considered to be over until Duke Energy, NRC and the states agree that the public is afforded comparable safety assurance to that which exists during periods of normal station operation. Specifically:

1. Radiation levels in site areas are stable or decreasing with time.
2. Releases of radioactive materials to the environment from the site are under control or have ceased.
3. Any fire, flooding or similar emergency conditions are controlled or have ceased.

Public officials are kept informed of recovery plans so that they can properly carry out their responsibilities to the public.

Periodic briefings of media representatives are held to inform the public of recovery plans and progress made.

Periodic status reports are given to company employees at other locations and to government and industry representatives.

M.1.a Outline of Station Recovery Plans

The plans and procedures for site reentry will consider existing as well as potential conditions inside containment. Prior to reentry, the following shall be addressed:

1. Review all available radiation survey data.
2. Determine site areas potentially affected by radiological hazards.
3. Review radiation exposure history of all personnel scheduled to participate in recovery operations. Determine the need for additional personnel.
4. Review the adequacy of radiation survey equipment available. Determine the need for additional equipment and a source of procurement.
5. Pre-plan team activities, including areas to be surveyed, anticipated radiation levels, survey equipment required, protective clothing requirements, access control procedures, exposure control procedures and communication capabilities.
6. Conduct comprehensive radiation survey of site facilities and define all radiological problem areas.
7. Isolate and post with appropriate warning signs all "high radiation areas" and areas of contamination.
8. Perform visual inspection of site areas and equipment.
9. All radiological conditions discovered and existing in the facility as determined by the re-entry survey will be evaluated by site management.
10. Upon evaluation of the radiological condition, site management will determine what procedures are required to restore the site to a normal status.
11. Personnel radiation exposure will be closely controlled and documented.
12. Recovery coordinators will take appropriate actions to ensure that emergency personnel and equipment leaving the Radiation Control Area are not contaminated, that radiological conditions at the scene of the emergency are properly defined, barricaded and posted with appropriate signs.

M.1.b Outline of Recovery Plans

Recovery from an emergency is guided by the following principles:

- a. The protection of the public health and safety is the foremost consideration in formulating recovery plans.
- b. Public officials would be kept informed of recovery plans so that they can properly carry out their responsibilities to the public.
- c. Periodic information would be provided to the news media so that they can provide information to the public regarding recovery plans and progress made.
- d. Periodic status reports would be given to company employees at other locations and to government and industry representatives.
- e. The radiation doses to employees and other radiation workers would be kept as low as reasonably achievable.

M.2 Recovery Organization

Before entering the Recovery phase, the EOF Director/Emergency Coordinator should establish a Recovery Organization that is appropriate for the existing on-site and off-site conditions. Figure M-1 describes a suggested organization structure. It may be modified or supplemented as necessary to fit the particular circumstances. In some situations (such as no core damage), the normal organization may be adequate and a Recovery Organization may not be needed.

The recovery activities would be managed much like a normal outage, except that certain activities unique to the post accident situation may be managed by the Recovery Organization. The organization would function as a matrix management organization to coordinate activities with the normal company organization. This organization may be located at the Emergency Operations Facility or the site, as appropriate.

The primary positions in the Recovery Organization are described below:

Recovery Manager - Overall management of recovery activities. High level coordination with federal, state, and local governments.

Onsite Recovery Director – Directs the recovery activities onsite to restore the plant to pre-incident conditions.

Offsite Recovery Director – Directs interface with Federal, State and local agencies during the recovery process.

Radiological Assessment Manager (if needed) -. Coordinates radiological and environmental assessment with federal and state agencies. Coordinates offsite radwaste management and decontamination activities.

Company Spokesperson - Directs the CNS Public Information Program during the recovery process.

Other Support – Other individuals or groups assigned specific tasks to support activities during the Recovery Phase.

Other site management and supervisory personnel will interface with recovery operations as necessary and as warranted.

M.3 Information to Members of Recovery Organization

The EOF Director will take the following steps to inform members of the Emergency Operations Facility, Site Organization, and off-site agencies that Recovery Operations are being initiated and that activities associated with bringing the plant to a safe shutdown condition are completed:

1. Develop a brief message as to the time and date of Recovery Operations initiation as well as any necessary organizational realignments.
2. Distribute the message to EOF Managers, [either JIC Director or Company Spokesperson], Emergency Coordinator, state and local officials, NRC and other representatives. Ask that each person inform those under his/her direction.

M.4 Total Population Exposure Estimates

The Radiological Assessment Manager (or successor in Recovery/Reentry Operations) will periodically update the estimate of total population exposure. See Section I.10.

FIGURE M-1
RECOVERY ORGANIZATION

