CALVERT COUNTY

RADIOLOGICAL EMERGENCY PLAN

FOR CALVERT CLIFFS NUCLEAR POWER PLANT

1.0 CONCEPT OF OPERATIONS

1.1 Emergency Response Organization

Upon receipt of notification of an accident at Calvert Cliffs Nuclear Power Plant, which requires County response, the President of the Board of County Commissioners may declare a declaration of emergency and the Calvert County Emergency Operations Center (EOC) may be activated. Throughout the duration of the emergency, the EOC will serve as the focal point for County emergency operations and information. County emergency operations will be under the overall direction of the President of the Board of County Commissioners.

Personnel or resources of the County agencies employed or utilized in local emergency operations will be under the operational control of the Director, Calvert County Emergency Management. State, private and Federal personnel or resources made available for assistance in local emergencies will be in support of County operations unless otherwise provided for by law. In the absence of the President or the Emergency Management Director, the officer next in line of succession will assume duties and responsibilities assigned to them in this Radiological Emergency Plan (REP).

A description of Federal and additional State support, which may be afforded to the County.

1.2 Mutual Aid Agreements

Local mutual aid agreements with the major political subdivisions within the CCNPP Plume and Ingestion Emergency Planning Zones are in outlined in the Maryland Emergency Management Assistance Compacts (MEMAC) .

1.3 Emergency Facilities

1.3.1. Emergency Operations Centers (EOC)

Calvert County EOC is located in the basement annex of the County Court House in Prince Frederick, which is the seat of County government. It provides a secure and protected headquarters and communications center for the direction and control of all emergency and disaster operations in the County. A summary of the EOC's communication resources is contained in the County's Emergency Operating Plan - Annex B. The EOC will be in operation at all times with staffing varying according to circumstances. Designated agencies having emergency functions will provide a representative to the County EOC. The agency representative will have the authority, unless provided for otherwise by law, to commit the resources of that organization represented and to speak on behalf of the head of that organization in the event of an extreme emergency.

The EOC is capable of continuous (24-hour) operation for a protracted period.

1.3.2. Media Center

The Media Center is located next to the CCNPP Emergency Operations Facility(EOF), Barstow, and contains facilities for Constellation Energy Company representatives to meet with NRC, State and County agency

representatives for the purpose of releasing emergency announcements to news media. This facility contains resources for document reproduction, telecopying, and telephone and television electrical connections for use by the news media. The Public Information Support Manager (CEG) who will coordinate all information releases concerning Site Area Emergency and General Emergency on-site conditions relating to CCNPP will supervise this center.

1.3.3 Accident Assessment Center

The Department of the Environment's (MDE) Accident Assessment Center (AAC) is located in the Emergency Operations Facility near Prince Frederick. The AAC will assess an accident at CCNPP, evaluate the potential health effects, and then recommend the necessary Protective Actions to the Secretary of the Environment. The AAC will serve as a central point for the compilation and analysis of all field monitoring data and will coordinate the analysis of sample media.

1.4 Emergency Communications

A dedicated-line telephone provides the primary communications link between key emergency facilities. This "hot line" ties together the CCNPP, the three Plume Zone Counties, the MEMA and the State Radiological Health Program (RHP). In Calvert County, extensions for this system are located in the County EOC and in the County Communications Center. The Maryland Institute for Emergency Medical Services Systems (MIEMSS) Communications System provides a coordinated 24-hour communications link between the Calvert County EOC, all hospitals within the State, and with Field ambulances.

Table 1-1 identifies the primary and alternate methods of communication among the EOC's and other facilities. Primary and alternate contacts are identified by title for each facility, where applicable.

1.5 Plan Implementation

The implementation of the REP is accomplished in two phases. This phase establishes initial communications contact between CCNPP and State and County governments to provide an exchange of information so that necessary protective measures may be implemented. The Operational Phase is the implementation of the Protective Actions and Parallel Actions as deemed necessary to minimize public exposure to radiation and ensure public health and safety.

1.5.1 Phase 1 - Initiation

A specific preplanned response by County and State governments to each class of accident is necessary to ensure the successful implementation of necessary Protective Actions and Parallel Actions in a timely manner. The following section summarizes County response and State interfaces to each of the accident classes and identifies actions to be initiated according to the accident classification. These classifications are consistent with those established by CCNPP.

1.5.1.1 Unusual Event

An Unusual Event is classified as an abnormal condition with plant safety degradation potential. This event has no potential for radioactive material release requiring off-site response or monitoring unless safety systems degrade further. Included in this classification is degradation of

nuclear fuel, reactor coolant system, or containment, where lowering reactor operation mode is required by NRC Technical Specifications. Inherently this condition presents time available for corrective actions to mitigate a more serious event.

The purpose of this classification is to provide off-site notification to (1) assure that the first step in any response later found to be necessary has been carried out; (2) bring the operating staff to a state of readiness; and (3) provide systematic handling of information and decision making.

Upon declaration of an Unusual Event, CCNPP will promptly notify the Calvert County Communications Center. The following actions will then be initiated:

1. The Communications Center will notify the Emergency Management (EM) Director.
2. The County will provide emergency vehicles and personnel to respond to the emergency at the site as necessary.

This emergency status will be maintained until closeout or escalation to a more severe emergency class.

1.5.1.2 Alert

An Alert classification is declared when events are in progress or have occurred involving actual or potential substantial degradation of plant safety. Any radioactive releases resulting from these events are expected to be limited to small fractions of EPA Protective Action Guides exposure levels. Includes situations considered prudent to notify off-Site Area Emergency organizations and mobilize on-Site Area Emergency Personnel.

The purpose of this classification is to (1) assure that emergency personnel are readily available to respond if the situation becomes more serious or to perform confirmatory radiation monitoring, if required, and (2) provide off-site authorities current status information.

Upon declaration of an Alert, CCNPP will promptly notify the Calvert County Communications Center. The following actions will then be initiated:

1. The Communications Center will notify the EM Director and implement its notification fan-out SOP.
2. The EM Director will fully or partially activate the County EOC.
3. The EM Director may initiate the Public Notification System and activate the Emergency Alert System.
4. Field Monitoring teams; communications and other emergency personnel will be alerted.
5. State & County Accident Assessment may be initiated and field-monitoring teams may be dispatched to provide confirmatory radiation monitoring if actual releases substantially exceed technical specifications.

6. The State Accident Assessment Center will perform plume and ingestion pathway dose projections if required.
7. The County Emergency Public Information Program will be implemented.
8. The County EOC and State EOC will keep each other informed.
9. The County EOC will keep all County agencies and those State and private agencies having functions in the County REP informed of the emergency and Protective Actions recommended.

This emergency status will be maintained until closeout or escalation to a more severe class.

1.5.1.3 Site Area Emergency

The Site Area Emergency classification is declared when events are in progress or have occurred involving actual or likely major failures of plant functions needed for public protection. Any releases are not expected to exceed EPA Protective Action Guides exposure levels near site boundary.

The purpose of this classification is to (1) assure that response centers are manned; (2) assure that monitoring teams are dispatched; (3) assure that personnel required for evacuation of near-site areas are at their duty stations if the situation becomes more serious; (4) provide consultation between on-site and off-site authorities; and (5) provide informational updates for the public through off-site authorities.

Upon declaration of a Site Area Emergency, CCNPP will promptly notify the Calvert County Communications Center. The following actions will then be initiated:

1. The Communications Center will notify the EM Director and implement its notification fan-out SOP.
2. The EM Director will fully activate the County EOC.
3. The EM Director will initiate the Public Notification system and activate the Emergency Broadcast System.
4. County EOC representatives will report to the EOC.
5. State and County Accident Assessment will be initiated and field-monitoring teams dispatched to provide confirmatory radiation monitoring.
6. The State Accident Assessment Center will perform plume and ingestion pathway dose projections.
7. The Protective Action of Food, Water, Milk, and Livestock Feed Control may be implemented.
8. Additional Protective Actions as well as limited initiation of Parallel Actions may be implemented based upon recommendations from CCNPP and assessment by the Accident Assessment Center of information from CCNPP and field monitoring teams.

9. The County Emergency Public Information Program will be implemented.
10. The County EOC and State EOC will keep each other informed.
11. The County EOC will keep all County agencies and those State and private agencies having functions in the County REP informed of the emergency and Protective Actions recommended.

This emergency status will be maintained until closeout reduction of the emergency class, or escalation to General Emergency class.

1.5.1.4 General Emergency

The General Emergency classification indicates that events are in progress or have occurred involving actual or imminent substantial core degradation or melting and a potential for loss of containment integrity. Releases can be reasonably expected to exceed EPA Protective Action Guides exposure levels off-site for more than the immediate site area.

The purpose of this classification is to (1) initiate predetermined Protective Actions; (2) provide continuous assessment of information from on-site and off-site organization measurements; (3) initiate additional measures as indicated by actual or potential releases; (4) provide consultation with off-site authorities; and (5) provide informational updates for the public through off-site authorities.

Upon declaration of a General Emergency, CCNPP will promptly notify the Calvert County Communications Center. The following actions will then be initiated:

1. The Communications Center will notify the EM Director and implement its notification fan-out SOP.
2. The EM Director will fully activate the County EOC.
3. The EM Director will initiate the Public Notification system and activate the Emergency Alert System.
4. County EOC representatives will report to the EOC.
5. State and County Accident Assessment will be initiated and field-monitoring teams dispatched to provide confirmatory radiation monitoring.
6. The State Accident Assessment Center will perform plume and ingestion pathway dose projections.
7. Protective and Parallel Actions may be initiated based upon recommendations from CCNPP and assessment by the Accident Assessment Center of information from CCNPP and field monitoring teams.
8. The County Emergency Public Information Program will be implemented.
9. The County EOC and State EOC will keep each other informed.

10. The County EOC will keep all County agencies and those State and private agencies having functions in the County REP informed of the emergency and Protective Actions recommended.

This emergency status will be maintained until closeout or reduction of the emergency class.

1.5.2 Phase 2 - Operational

This section summarizes the assigned emergency response functions of key and support County, private, and State agencies (within the County) which will respond to an accident at CCNPP. For most emergency functions, State and Federal operations will be in support of Calvert County operations. The Department of the Environment is the key organization for Accident Assessment and the Department of Health and Mental Hygiene is the key organization for Food, Water, Milk, and Livestock Feed Control. For all other Protective Actions and all of the Parallel Actions, Calvert County is the overall key organization. Then MEMA will provide overall coordination of State and Federal support to County operations. The agencies and their responsibilities are shown in the Calvert County Agency Responsibilities Matrix, Table 1-2. Table 1-3 identifies the responsible individual and alternate by title for each agency designated as a key agency in the implementation of the REP. Block diagrams, which graphically show the interaction of these agencies, are presented in Figures 1-1 through 1-5.

1.5.2.1 Accident Assessment

Initial assessment of the accident and evaluation of the radiological release consequences will be performed by CCNPP. Based on plant parameters and atmospheric dispersion models, CCNPP will determine the projected dose values and notify the Calvert County Communications Center of recommended Protective Actions for affected areas zone.

Then MDE along with support agencies will perform an independent assessment of the accident. The Sheriff, the Maryland State Police-Post U, and the Natural Resources Police will provide transportation assistance. The MDE will coordinate with Calvert County EM and the County Health Department to obtain field-monitoring results and collect environmental samples.

County field monitoring will be performed at pre-selected off-site locations that are identical to those established by CCNPP. Other field monitoring locations will be established as necessary.

The Secretary of the Environment, based upon the dose assessment values and plant parameters provided by CCNPP, the data from the field monitoring teams, and the independent calculations of the AAC, will inform the County Health Officer and MEMA of the necessary Protective Actions to be initiated in the affected area to minimize the public exposure to radiation. MEMA will then contact Calvert County EM to confirm the initiation of County Protective Actions. Until such time as the MDE brings its resources to bear, Calvert County may initiate Protective Actions based upon its field monitoring results and the information and recommendations from CCNPP. If at all possible, Calvert County will coordinate Protective Actions with other plume zone

counties, MEMA and/or the Secretary, MDE. If this is not possible, they will be notified as soon as possible after the action has been taken.

CCNPP will continually update the County on plant status and accident related information. The MDE, along with the support of County, State, private, and Federal agencies will continue to monitor the accident and provide updates on the accident status. The MEMA and the Calvert County EOC will continually keep each other informed of the situation.

Figure 1-1 graphically represents the interaction of the agencies in assessing the accident.

1.5.2.2 Notification and Communication

If an accident occurs at CCNPP, which requires County response, the CCNPP Emergency Director will notify Calvert County of the situation via the CCNPP Hot Line. A CEG radio is provided for backup. During normal work hours, the EM Director would receive the call in the County EOC. At all other times, the call would be received by the County Communications Center, which would then promptly notify the EM Director.

The Calvert EM will then initiate the notification of key and Support County, private, and State agencies within the County. The MEMA and the plume zone counties will routinely keep each other and CCNPP informed on the situation and as new developments occur. See Table 1-1 for primary and alternate methods of communication between emergency facilities.

1.5.2.3 Command and Coordination

The CCNPP Emergency Director will establish liaison and coordinate CCNPP off-site response with that of the County and State in accordance with the CCNPP Emergency Response Plan and the Maryland REP.

The Governor is in overall command of State agencies, State resources, and the State's emergency response. County operations will be under the overall direction and control of the President of the Board of County Commissioners.

The County EM Director provides incident command and overall coordination of County, private, and State agencies having functions in the County REP and will coordinate requests for all assistance from these agencies. If assistance is not available locally, the requests will be forwarded to the MEMA. Any assistance, when rendered to the County, will come under the operational control of the County.

Each State and private agency having a functional responsibility in the County REP and each responsible County agency will provide a representative to the County EOC at the direction of the County EM Director. These representatives will have authority to commit the local resources of the agency represented and speak on behalf of the head of that agency. Each agency will ensure that arrangements are in place to provide 24-hour per day representation at the County EOC.

Figure 1-2 represents the Command and Coordination function of County Emergency Response Operations.

1.5.2.4 Protective Actions

The Secretary, MDE, will contact the Calvert County EM Director and advise of the recommended or directed Protective Actions. Additionally, when the MEMA is informed of the recommendations or directives of the Secretary, MDE, or Governor, it will contact the EM Director. In the absence of such recommendations or directives, the President of the Board of County Commissioners has the authority to initiate Protective Actions. Protective Actions should be based on information and recommendations from CCNPP. Whenever these Protective Actions occur, the County will keep the Accident Assessment Center and the State EOC informed of the situation. In any event, the EM Director will then assure overall coordination of County Protective Action operations.

Figure 1-3 represents the organization of the County for Protective Actions. Each Protective Action is summarized below.

Take Shelter

The EM Director will assure overall coordination of support agencies in notifying the affected population to seek shelter. The Calvert EM is the key county agency for Take Shelter.

Notification of the Public

The EM Director will cause the Public Notification System to be activated. The Calvert EM is the key County agency for Take Shelter. The Sheriff, Maryland State Police and County Department of Public Safety will assist in notifying the public of the need to seek shelter. The Forest and Park Services will notify campers and visitors in Calvert Cliffs State Park. The Natural Resources Police will assist in notifying boaters on affected waterways.

Thyroid Protection (Potassium Iodide)

The EM Director will assure overall coordination of support agencies in notifying the affected population to ingest potassium iodide. The Calvert County Health Department is the key county agency for Thyroid Protection.

Notification of the Public

The EM Director will cause the Public Notification System to be activated. The Calvert County Health Department is the key County agency for Take Shelter. The Sheriff, Maryland State Police, and County Department of Public Safety will assist in notifying the public of the need to ingest potassium iodide. The Forest and Park Services will notify campers and visitors in Calvert Cliffs State Park. The Natural Resources Police will assist in notifying boaters on affected waterways.

Evacuation

The EM director will assure overall coordination of key and support agencies in notifying the affected public to evacuate and in providing transportation assistance. The Sheriff's Office is the key County agency for Evacuation.

Notification of the Public

Federal regulation (10CFR 50, Appendix E) requires that nuclear power stations provide local municipalities with the capability of providing an alert signal to the population on an area wide basis throughout the 10 mile EPZ, within 15 minutes. The purpose of the alert signal is to notify the public to tune to their local Emergency Alert System (EAS) radio or television station for information and instructions.

In compliance with this regulation, the Constellation Energy Group has had a radio activated siren system installed in the 10 mile EPZ. The sirens are under the operational control of the three plume zone counties. In Calvert County, the sirens may be simultaneously activated from 0 to 10 miles.

The Code Red mass telephone notification system may also be used to notify the population of an emergency condition within the 10-mile planning zone.

In addition to the siren system, an automated notification calling system is in place for schools and licensed day care centers within the 10-mile EPZ in Calvert County.

Only the EM Director, or his designee, for any of the following reasons, may activate the sirens in Calvert County:

1. Whenever a protective action is ordered.
2. For testing purposes; or
3. In the judgment of the EM Director, the public should be alerted for any reason to tune in to the local EAS Station for information or instructions.

In the event of any emergency at CCNPP, EAS stations would be activated to provide information and instructions for Calvert County residents:

The EM Director will cause the Public Notification System to be activated. The State Department of Natural Resources' Forest and Park Services will notify campers and visitors in Calvert Cliffs State Park. The Department of Natural Resources Police will assist in notifying boaters on affected waterways. Back-up notification procedures are available in the event of siren system failure. Transportation of Evacuees

The Board of Education may provide drivers and buses to travel predesignated routes within the county to pick up evacuees requiring transportation, as necessary. If schools are in session, the Board of Education will also provide bus transportation for students at those schools within the plume zone. Student will be relocated to host schools beyond the 10-mile EPZ. Students attending schools outside of the plume zone, but who live within the plume zone, will also be transported to host schools. The Board of Education and the Transportation Division will assist in transportation of evacuees from reception centers to mass

care centers. The Natural Resources Police will also assist in providing water transportation for special areas that must be evacuated.

Reception/Mass Care Centers

The Board of Education will prepare schools within the County designated as reception centers to receive evacuees. The centers will notify the EM Director if additional facilities are required (see Attachment 9, Tab C).

Impediments to Evacuation

Circumstances may dictate the need for extraordinary speed in the removal of impediments to evacuation. For this reason, Calvert County will, if practicable, preposition personnel, equipment, and materials along evacuation routes and at traditional congestion areas. Extraordinary measures may be necessary in order to permit the uninterrupted flow of evacuation traffic.

Access Control

The EM Director will assure overall coordination of key and support agencies in controlling access into the affected area and exiting traffic. The Maryland State Police-Post U is the key agency for Access Control. The Sheriff and the Public Works Department will assist by providing personnel to man pre-designated access and traffic control points. The State Highway Administration will provide road barricades, flashing signals, and traffic cones to supplement County resources. The State Highway Administration will also print signs identifying specific evacuation routes and other signs as requested. The Natural Resources Police will assist in restricting boats from affected waterways.

Only authorized officials and emergency workers will be permitted beyond access control points. Authorization for entry into controlled areas will be coordinated between the County EM Director and the CCNPP Emergency Director.

Food, Water, Milk, and Livestock Feed Control

The EM Director will assure overall coordination of County support in controlling food, water, milk, and livestock feed supplies which may have become contaminated. The DHMH is the key agency for Food, Water, Milk, and Livestock Feed Control. The County Health Department will coordinate Food, Water, Milk, and Livestock Feed Control operations at the local level.

Analysis

The AAC will determine whether the supplies are suitable for animal and human consumption with regards to possible radioactive contamination above acceptable limits, the DHMH will coordinate with State and County support agencies to ensure that these products are removed or restricted from the public market until it has been determined that they are again safe for consumption.

Control

The DHMH will ensure that contaminated milk supplies and contaminated food supplies including produce, and aquatic and game animals, are kept from the public. The DHMH will also ensure that public water supplies, which have become contaminated, are shutoff or are designated for critical use (e.g., fire fighting) only. The Department of Agriculture will ensure that animals are removed from pasture and are placed on alternate feed supplies. The State Highway Administration will provide transportation of alternate feed supplies for livestock taken off pasture. The Tidal Fisheries Division will control harvesting of contaminated finfish.

1.5.2.5 Parallel Actions

The EM Director will assure overall coordination of the County Parallel Actions operations and coordinate State support to the County. Figure 1-5 represents the County organization for Parallel Actions. Each Parallel Action is summarized below.

Emergency Medical Services

The EM Director will assure overall coordination of key and support agencies in Emergency Medical Services. The County Department of Public Safety is the key County agency and will coordinate support agencies in providing assistance as requested.

Transportation

The County Department of Public Safety will coordinate emergency transportation for the injured.

Treatment

Calvert Memorial Hospital will provide emergency first aid personnel and supplies. The American Red Cross will also provide emergency first aid at the evacuation centers. MIEMSS will provide support assistance, if necessary.

Radiation Exposure Control

Emergency Management is the key County agency for radiation exposure control and will coordinate County, State, Federal and private support agencies.

The Radiological Officer will contact the MEMA for additional dosimeters and monitoring equipment. The Radiological Officer will ensure that sufficient trained radiation monitors are available at the County EOC, and monitoring and decontamination centers (see Table 1-5 for locations). Additional trained personnel may be provided through MEMA and the DHMH.

Personnel Exposure Control

County and its support State, Federal, and private agency emergency workers entering controlled areas must first report to a pre-established dosimetry distribution point. Information on the location of these distribution points may be obtained by contacting the County EOC. Emergency workers must be issued dosimeters and monitoring equipment and be briefed on the accident status and recommended stay

time prior to entering controlled areas. The County Health Department is responsible for the administration of potassium iodide to emergency workers in accordance with MDE policy and procedures.

Personnel Monitoring

Emergency workers exiting controlled areas will report to radiological monitoring centers to be checked for contamination. Evacuees will be monitored for contamination at reception centers. The County Department of Public Safety will assist in the monitoring of public and emergency workers. The County Health Department is responsible for recording public and emergency worker radiation exposure. Public and emergency worker exposure records will be submitted to the MDE by the County Health Department when complete.

Decontamination

The County Department of Public Safety will assist in the decontamination of evacuees, emergency workers, and equipment and materials. Calvert Memorial Hospital will also assist in the decontamination of emergency workers.

Law Enforcement and Crime Prevention

The EM Director will assure overall coordination of key and support agencies in maintaining law and order. The Maryland State Police-Post U is the key agency and will be supported by the Sheriff's Department with assistance as requested.

Mass Care

The EM Director will assure overall coordination of key and support agencies in mass care operations. The Department of Social Services is the key County agency and will coordinate the operations of support agencies in providing mass care to the County.

Evacuation Centers

At the direction of the EM Director, mass care centers within the County, and in evacuation support counties as needed, will be readied to receive evacuees. The Board of Education will provide food supplies and volunteer personnel for evacuation centers. The County Health Department will provide public health nurses for consulting and evaluating health problems and administering first aid at the mass care centers. The State Department of Housing and Community Development will identify housing and mobile homes that would be available if evacuation is required for an extended period of time. The American Red Cross and the Salvation Army will also support operations at the mass care centers.

Funding

The State Office of Comptroller of the Treasury will, upon official written request from the MEMA or at the direction of the Governor,

allocate funds to the County to ensure that mass care functions and the Parallel Actions will be adequately provided for.

Return

The Secretary, MDE, will notify the County Health Officer when radiation levels are such that it is safe to return to the affected area. Additionally, when the Secretary informs the MEMA, MDE, it will notify the EM Director. The EM Director will coordinate the County, State, Federal, and private agencies, which have operational functions within the County, to ensure a safe and orderly return of the evacuees. Calvert EM is also the key County agency for return.

Notification to the Public

The public will be notified that it is safe to return to the affected area and of any special procedures to be followed by new announcements over radio or television and in newspapers.

Traffic Control

The Maryland State Police-Post U will assist the Sheriff in traffic control.

Transportation of Evacuees

The Board of Education and the Transportation Division will provide transportation assistance as requested.

1.5.2.6 Public Information

In the event of an accident at CCNPP, the Public Information Officer (PIO) will implement the County's Emergency Public Information Program. This program will assure that accurate and timely information is provided to the public in the event of a radiological emergency.

The PIO, located at the County EOC, will be in charge of local public announcements. The PIO will have access to all necessary information and will report on the radiological emergency and county emergency operations. The PIO has the responsibility to deliver to the public comprehensive public announcements on a regular basis. The PIO will make all reasonable attempts to coordinate public information announcements with the State PIO and will utilize local public media in the implementation of public announcements.

2.0 SPECIAL CONCERNS

In the event of a radiological emergency at CCNPP certain facilities/areas will require special attention in regard to the implementation of Protective Actions and Parallel Actions. The public will be asked to aid neighbors who are handicapped, impaired, or with special needs requiring special attention.

A listing of handicapped or special needs citizens residing within the CCNPP plume zone is maintained by the EM Director and is on file in the EOC. The Calvert County Public Schools System maintains a listing of all handicapped students that need special transportation. This information is available to the Transportation Supervisor in time of emergency.

Special Concerns facilities and procedures are detailed in the assigned responsible agency(ies) Standard Operating Procedures and/or Implementing Procedures.

Special procedures and detailed instructions to the public for each special concern are contained in public information pamphlets. These pamphlets are jointly developed by the State, respective plume zone county, and CCNPP and are updated and distributed on an annual basis.

3.0 PLAN TESTING AND MAINTENANCE

3.1 Scenarios

Calvert EM is responsible for assisting the MEMA in the overall development of drill and exercise scenarios, and in making arrangements for official observers.

3.2 Drills

All drills will be conducted by the EM Director and evaluated by qualified officials.

3.2.1 Communications Drills

Overall coordination drills is the responsibility of the EM Director. Communications with State and County agencies within the Plume Exposure Zone will be tested monthly. Communications between CCNPP and the State and the County EOCs will be tested quarterly.

3.2.2 Medical Emergency Drills

The County Department of Public Safety will participate in annual medical emergency drills with Calvert Memorial Hospital. The Maryland Institute for Emergency Medical Services Systems may assist in the conduct of the annual medical emergency drill.

3.2.3 Radiological Monitoring Drills

The EM Director will assist the MDE and the MEMA in the development and conduct of radiological monitoring drills. County and State agencies having Accident Assessment responsibilities will participate fully in actual drills. Radiological monitoring drills may be incorporated in the biennial exercise.

3.3 Exercises

At least once every two years, Calvert EM in conjunction with the MEMA and CCNPP will prepare and conduct an emergency response exercise of the REP.

3.4 Training

3.4.1 Emergency Worker Training

A training program will be established by Calvert EM to prepare the responsible County agencies for dealing with radiological emergencies.

County training will be the responsibility of Calvert EM. Provisions for periodic retraining (at least once annually) will be central to the Training Program.

3.4.2 Public Information Training

The EM Director is responsible for the overall coordination of the public information-training program within the County.

3.5. Critique

Official observers from County, State, private and/or Federal agencies will observe and critique the required exercises and drills.

3.6 Plan Maintenance

Maintenance of the Calvert County REP will be the responsibility of the County EM Director. Table 1-4 identifies by title, the individual in each agency assigned the responsibility for the maintenance and updating of their agency's sections of the REP and

their respective SOPs. These individuals are also responsible for notifying the EM Director of any changes within their organizations which may require revision to the REP. Telephone numbers and staff assignments will be updated at least quarterly. These updates will be distributed to all organizations that require them.

As a minimum, an annual review and updating of emergency plans will be made, preferably in conjunction with the exercises. The Board of County Commissioners and the Governor must approve substantive changes proposed by any County organization. The County EM Director will send any changes made to the MEMA. The MEMA will then incorporate the changes and submit revisions to the County EM Director (for issuance to County users of the REP) and to State users of County Plan. A mailback certificate indicating that the changes have been received and posted will accompany the revisions.

Formal changes and revised pages will be dated and marked to show where changes have been made and will be distributed by MEMA. The MEMA will annually review the REP to ensure that the plans are current. Spot EM audits will be conducted periodically to insure compliance with the REP. Disclosure of noncompliance will result in notification to the agency head involved.

3.7 Equipment Maintenance

The County EM Director is responsible for equipment inventory, inspection, operational checks, and maintaining records. Equipment provided by CCNPP will be maintained and calibrated by CCNPP.

3.8 Scheduling

A schedule of training, drills, and exercises will, after coordination with all organizations having functions in the County REP, be incorporated in the Annual State Program Emphasis and the County Comprehensive Cooperative Agreement program to be submitted through the MEMA for FEMA Region III approval.

4.0 SUMMARY PROCEDURES

Implementing Procedures, Call Lists, and Standard Operating Procedures exist for County, State, and private agencies with assigned responsibility in the County's emergency operations. This section summarizes each agency's responsibilities and role according to the six basic planning functions. The corresponding attachment indicates the agencies Standard Operating Procedure.

Calvert County agencies summarized are:

Board of County Commissioners; includes County Administrative	-	Attachment 1
Division of Emergency Management	-	Attachment 2
Accident Assessment (Field Monitoring)	-	Attachment 3
Radiation Exposure Control	-	Attachment 4
Public Information	-	Attachment 5
Sheriff's Department	-	Attachment 6
Department of Public Safety	-	Attachment 7
Health Department	-	Attachment 8
Board of Education	-	Attachment 9
Public Works Department	-	Attachment 10
Department of General Services	-	Attachment 11
Department of Social Services	-	Attachment 12
Calvert Memorial Hospital	-	Attachment 16
American Red Cross	-	Attachment 13
Maryland State Police-Post U	-	Attachment 14
Department of Natural Resources - Natural Resources Police	-	Attachment 15
Calvert Memorial Hospital	-	Attachment 16
Farm Services Agency	-	Attachment 17

4.1 Board of County Commissioners

4.1.1 Accident Assessment

The President of the Board of County Commissioners is in overall command of County operations for Accident Assessment in the event of an accident at Calvert Cliffs Nuclear Power Plant (CCNPP).

The Board will constantly monitor the accident status. In the absence of any recommendations or directives from the Secretary, MDE, or Governor, the Board will consult with the County Health Officer and the County Emergency Management (EM) Director to determine appropriate Protective Actions and Parallel Actions.

4.1.2 Notification and Communication

The President of the Board or alternate will be notified of an accident at CCNPP by telephone call from the EM Director.

The notification will be verified according to Standard Operating Procedures. The President of the Board will then notify the other Commissioners by telephone. Work and home telephone numbers are available for 24-hour notification. The President of the Board will report to the County Emergency Operations Center (EOC) to direct County emergency response operations.

4.1.3 Command and Coordination

The President of the Board is in overall command of the County emergency response operations and will establish liaison with the Governor's Office through the MEMA. The Board from the County EOC will maintain communications with County agencies by radio and telephone.

4.1.4 Protective Actions

The Board will oversee EM and the key County and support agency operations in the implementation of Protective Actions necessary to ensure public health and safety.

4.1.5 Parallel Actions

The Board will direct EM overall coordination and the key County and support agencies operations in the implementation of Parallel Actions necessary to ensure public health and safety.

4.1.6 Public Information

The Board will designate the Public Information Officer (PIO) for the County. The PIO will implement the County Emergency Public Information Program to keep the public informed of the situation. The County PIO will keep the State PIO informed of all news releases.

4.2 Division of Emergency Management (EM)

4.2.1 Accident Assessment

Calvert EM is overall coordinating agency for County support of Accident Assessment.

Calvert EM, along with support agencies, will monitor accident status and coordinate County resources in support of the MDE accident assessment.

The MEMA will keep Calvert EM informed of the Protective Actions recommended or directed by the Governor or the Secretary, Department of the Environment (MDE). In the absence of any recommendations or directives, the EM Director will consult with the County Health Officer in order to provide the Board of County Commissioners with recommendations on Protective Actions to be taken.

4.2.2 Notification and Communication

The EM Director or alternate will be notified of an accident at CCNPP by the CCNPP dedicated line or from the Calvert County communications Center (24-hour coverage). Radio frequencies and work and home telephone numbers are provided for 24-hour notification. The notification will be verified according to Standard Operating Procedures.

After receiving notification, the EM Director or designee will notify the appropriate County department heads and will activate the County Emergency Operations Center (EOC). A call list of telephone numbers and radio frequencies is available for 24-hour notification.

Calvert EM will utilize radio, Teletype, and telephones located in the County EOC as primary communication for the county emergency response. The radio communication of the County Communications Center provides additional communications capabilities.

4.2.3 Command and Coordination

The EM Director or alternate is has command of the County EOC under the overall command of the Board of County Commissioners. The EM Director is responsible for assuring the continuity of the necessary personnel and material resources needed to equip the County EOC for continuous (24-hour) operations for a protracted period. The EM Director will also ensure that each agency having representation at the County EOC is prepared to provide representatives on a 24-hour per day basis. The EM Director or alternate will also coordinate the County and the State emergency response with MEMA. County agencies' requests for support will be made through Calvert EM.

4.2.4 Protective Actions

The EM Director or designee, under the command of the Board of County Commissioners, is responsible for the overall coordination of the implementation of Protective Actions.

Take Shelter

Calvert EM will coordinate County take shelter operations and is the key County agency for Take Shelter. Working with the support agency representatives., Calvert EM will ensure that public notification to all segments of the transient and resident population is successfully implemented by means of commercial, radio and/or television, public address systems, siren warnings, telephone, and personal contact, as is needed. The EM Director will also ensure that the public is aware of the recommended take shelter actions.

A listing of support agencies is presented in Table 1-2, Agency Responsibility Matrix.

Thyroid Protection

Calvert EM will coordinate County Thyroid Protection (potassium iodide) operations. Working with the support agency representatives. Calvert EM will ensure that public notification to all segments of the transient and resident population is successfully implemented by means of commercial, radio and/or television, public address systems, siren warnings, telephone (including code red) and personal contact, as is needed. The EM Director will also ensure that the public is aware of the recommended thyroid protective actions.

A listing of support agencies is presented in Table 1-2, Agency Responsibility Matrix.

Evacuation

Calvert EM will coordinate evacuation operations with the Sheriff's Office, the key County agency for Evacuation. Working with the Sheriff and support agency representatives, Calvert EM will ensure that public notification to all segments of the transient and resident population is successfully implemented by means of commercial, radio, and/or television, public address systems, siren warnings, telephone, and personal contact, as is needed. The EM Director will also ensure that designated areas are evacuated in a timely and orderly fashion, and that Reception Centers and Mass Care Centers are activated to receive evacuees.

Access Control

Calvert EM will coordinate the County access control operations with the Maryland State Police-Post U, the key agency for Access Control. Working with the support agency representatives, the EM Director will ensure that all affected areas are clearly designated and access to these areas is adequately controlled.

Food, Water, Milk, and Livestock Feed Control

Calvert EM will assure overall coordination of the County food, water, milk, and livestock feed control operations. The EM Director will rely on the advice, the directives, and the capabilities provided by the key agency, the Department of Health and Mental Hygiene (DHMH). Working with county support agencies and under direction of the DHMH, the EM Director, or designee, will ensure that contaminated food, water, milk, and livestock feed are restricted from consumption and that alternate supplies are available.

4.2.5 Parallel Actions

Calvert EM, under the command of the Board of County Commissioners, is responsible for the implementation and the overall coordination of Parallel Actions.

Emergency Medical Services

The EM Director will maintain communications with the Director of Public Safety to assure that the Emergency Medical Services are maintained.

Radiation Exposure Control

The EM Director will coordinate the County radiation exposure control operations with the Radiological Officer. The Radiological Officer will ensure that dosimeters are available for emergency worker use that adequate exposure

record keeping capabilities exist for emergency workers and the public, and that decontamination facilities are supplies and manned with trained personnel.

Law Enforcement and Crime Prevention

The EM Director will coordinate the County law enforcement and crime prevention operations of the key agency, the Maryland State Police-Post U, to ensure the maintenance of civil order.

Mass Care

The EM Director will coordinate the mass care operations of the key County agency, the Department of Social Services, in the implementation and coordination of mass care operations.

Return

The EM Director will coordinate County return operations and is the key County agency for return operations. The MDE, through the MEMA will notify the EM Director when radiation levels are such that it is safe to return to the affected area. The EM Director, working with County agency representatives, will ensure that proper notification and transportation of evacuees back to their residences are carried out in an orderly fashion.

A listing of support agencies is presented in Table 1-2, Agency Responsibility Matrix.

4.2.6 Public Information

All media requests for information must be forwarded to the County PIO. Any assistance requested by the County PIO will be provided.

4.3 Sheriff

4.3.1 Accident Assessment

The Sheriff's Office is a support agency for Accident Assessment. The Sheriff will support the Department of the Environment in accident assessment by providing transportation and communications for field monitoring teams and equipment, if necessary.

4.3.2 Notification and Communication

The Sheriff's Duty Officer will be notified of an accident at Calvert Cliffs Nuclear Power Plant (CCNPP) by radio, telephone, or intercom from the County Communications Center (24-hour coverage). Following completion of appropriate log entries, the notification will be verified according to Standard Operating Procedures. After receiving notification, the Duty Officer will contact the Sheriff or alternate, by radio; telephone commensurate with the severity of the accident. Communication with Sheriff's Office personnel will be maintained by radio or telephone.

4.3.3 Command and Coordination

The Sheriff or alternate will be in charge of with Sheriff's emergency response operations and coordinate activities with the Maryland State Police-Post U from the County Emergency Operations Center (EOC). Initial requests for assistance will be directed through the County EOC. The Sheriff is responsible for ensuring

that the Sheriff's Office is properly staffed for 24-hour per day operation and that adequate resources are available.

4.3.4 Protective Actions

The Sheriff's Office is the key County agency for Evacuation and a support agency for Take Shelter and for Access Control.

Take Shelter

The Sheriff's Office will support the County EM by providing public notification for take shelter operations. Police vehicles equipped with public address systems, using pre-established procedures, will be utilized to notify the public of take shelter procedures.

Thyroid Protection

The Sheriff's Office will support the County EM by providing public notification for take Thyroid Protection instructions. Police vehicles equipped with public address systems, using pre-established procedures, will be utilized to notify the public of thyroid protection procedures.

Evacuation

The Sheriff and support agencies will provide traffic control and public notification for evacuation operations. Police vehicles equipped with public address systems and implementing pre-established procedures will be utilized to notify the public of evacuation procedures to ensure an orderly evacuation.

The Sheriff will coordinate the activities of the support agencies for public notification during an evacuation operation. The County EM Director will coordinate other support agencies providing transportation during evacuation.

A listing of support agencies is presented in Table 1-2, Agency Responsibility Matrix.

Access Control

The Sheriff will support the Maryland State Police-Post U in access control operations. The Sheriff's Office will support the establishment of access control points and roadblocks.

4.3.5 Parallel Actions

The Sheriff's Office is a support agency for Law Enforcement and Crime Prevention and for Return.

Law Enforcement and Crime Prevention

The Sheriff will support the Maryland State Police-Post U in law enforcement and crime prevention operations. The Sheriff will support police operations of maintaining civil order during and after the emergency.

Return

The Sheriff will support the County EM during return operations by providing traffic control.

4.3.6 Public Information

All media requests for information must be forwarded to the County PIO. Any assistance requested by the County PIO will be provided.

4.4 Department of Public Safety

4.4.1 Accident Assessment

The Department of Public Safety will support the County EM in Accident Assessment at the County EOC.

4.4.2 Notification and Communication

The Director, Department of Public Safety, will be notified of an accident at Calvert Cliffs Nuclear Power Plant (CCNPP) by telephone or radio call from the Calvert County Communications Center. Work and home telephone numbers and radio frequencies are provided for 24-hour notification.. The notification will be verified according to Standard Operating Procedures. After receiving notification, the Director or designee will, commensurate with the severity of the accident, notify the appropriate Department of Public Safety personnel by the tone dispatch system and/or telephone call.

4.4.3 Command and Coordination

The Director or designee will represent the Department of Public Safety at the County Emergency Operations Center. The Director is responsible for ensuring that the Department of Public Safety is properly staffed for 24-hour per day operation and that adequate resources are available.

4.4.4 Protective Actions

The Department of Public Safety is a support agency for Take Shelter and for Evacuation.

Take Shelter

The Department of Public Safety will support the Sheriff in take shelter operations by notifying the public by using mobile for fixed public address or alert systems, of take shelter procedures. The Department of Public Safety will be supported by local fire-rescue-emergency medical services.

Thyroid Protection

The Department of Public Safety will support the Sheriff in thyroid protection operations by notifying the public by using mobile for fixed public address or alert systems, of take shelter procedures. The Department of Public Safety will be supported by local fire-rescue-emergency medical services.

Evacuation

The Department of Public Safety will support the Sheriff in evacuation operations by notifying the public, by using mobile or fixed public address or alert systems, of evacuation procedures. The Department of Public Safety will be supported by local fire-rescue-emergency medical services.

4.4.5 Parallel Actions

The Department of Public Safety is the key County agency for Emergency Medical Services and is a support agency for Radiation Exposure Control.

Emergency Medical Services

The Department of Public Safety, as the key County agency for emergency medical services operations, will direct the utilization of local and mutual aid ambulances and fire and rescue emergency medical services in providing emergency medical care.

A listing of support agencies is presented in Table 1-2, Agency Responsibility Matrix.

Radiation Exposure Control

The Department of Public Safety will support the County EM in radiation exposure control operations by monitoring public and emergency worker exposure and aiding in the decontamination of evacuees, emergency workers, equipment and materials.

4.4.6 Public Information

All media requests for information must be forwarded to the County PIO. Any assistance requested by the County PIO will be provided.

4.5 Health Department

4.5.1 Accident Assessment

The Health Department is a support agency for Accident Assessment.

The County Emergency Management (EM) Director will keep the Health Officer informed of the accident status. In the absence of any protection action recommendations or directives from the Governor or Secretary of the Environment, the Health Officer will consult with the EM Director in order to provide the Board of County Commissioners with recommendations or Protective Actions to be taken. The County Health Department will provide the collection of samples as requested by the State Department of the Environment (MDE).

4.5.2 Notification and Communication

The Health Officer or alternate, the Director of Environmental Health, will be notified of an accident at CCNPP by telephone call from the EM Director or his designee. Work and home telephone numbers are provided for 24-hour notification. The notification will be verified according to Standard Operating Procedures.

4.5.3 Command and Coordination

The Health Officer or alternate, the Director of Environmental Health will be in charge of the Health Department's emergency response operations. The Health Officer or alternate will represent the Health Department at the County Emergency Operations Center. The Health Officer is responsible for ensuring that the Health Department is properly staffed for 24-hour per day operation and that adequate resources are available.

4.5.4 Protective Actions

Thyroid Protection

The Health Department will coordinate County Thyroid Protection (potassium iodide) operations and is the key County agency for Thyroid Protection. Working with the support agency representatives., The Health Department will ensure that public notification to all segments of the transient and resident population is successfully implemented by means of commercial, radio and/or television, public address systems, siren warnings, telephone (including code red) and personal contact, as is needed. The Health Department will also ensure that the public is aware of the recommended thyroid protection actions.

The Health Department is a support agency to the DHMH for Food, Water, Milk, and Livestock Feed Control.

Food, Water, Milk, and Livestock Feed Control

The Health Department will assist in the control and disposition of food, water, milk, and livestock feed supplies as directed by the DHMH.

4.5.5. Parallel Actions

The Health Department is a support agency for Radiation Exposure Control and for Mass Care.

Radiation Exposure Control

The Health Department will support the radiation exposure control operations of the County EM. If necessary, potassium iodide will be administered to emergency workers under the direction of the County Health Officer. The Health Department will maintain records of emergency workers' exposures. Public and emergency worker exposure records will be submitted by the County Health Department to the MDE when complete.

Mass Care

The Health Department will support the mass care operations of the Department of Social Services and will coordinate County medical services during the emergency. The Health Department will direct public health nurses to assist in administering first aid and routine nursing services.

4.5.6 Public Information

All media requests for information must be forwarded to the County PIO. Any assistance requested by the County PIO will be provided.

4.6 Board of Education

4.6.1 Accident Assessment

The Board of Education has no assigned responsibility for this function.

4.6.2 Notification and Communication

The Superintendent of Schools or alternate, the Assistant Superintendent, will be notified of an accident at Calvert Cliffs Nuclear Power Plant (CCNPP) by telephone from Calvert County Emergency Management (EM). Work and home

telephone numbers are provided for 24-hour notification. The notification will be verified according to Standard Operating Procedures.

After receiving notification, schools will be notified as necessary. (The EM Director will notify Private schools by telephone).

4.6.3 Command and Coordination

The Superintendent of Schools or alternate, the Assistant Superintendent, will be in charge of Board of Education emergency response operations. The Superintendent of Schools or alternate will represent the Board of Education at the County Emergency Operations Center. The Superintendent of Schools is responsible for ensuring that the Board of Education is properly staffed for 24-hour per day operation and that adequate resources are available.

4.6.4 Protective Actions

The Board of Education is a support agency for Evacuation.

Evacuation

The Board of Education will support the Sheriff in evacuation operations by providing school buses for evacuation transportation and availing specified schools for use as evacuation centers.

4.6.5 Parallel Actions

The Board of Education is a support agency for Mass Care and for Return.

Mass Care

The Board of Education will support the Department of Social Services in mass care operations by availing school facilities to the evacuees and providing volunteer personnel at these facilities (see Attachment 9, Tab C for facility names and locations).

Return

The Board of Education will support the County EM in return operations by providing transportation to evacuees to return to their homes.

4.6.6 Public Information

All media requests for information must be forwarded to the County PIO. Any assistance requested by the County PIO will be provided.

4.7 Public Works Department

4.7.1 Accident Assessment

The Public Works Department has no assigned responsibility for this function.

4.7.2 Notification and Communication

The County Engineer or alternate, the Deputy Engineer, will be notified of an accident at Calvert Cliffs Nuclear Power Plant (CCNPP) by telephone call from Calvert County Emergency Management (EM). Work and home telephone numbers are provided for 24-hour notification. The notification will be verified according to Standard Operating Procedures. Communications will be maintained with the Public Works Department personnel by telephone or radio.

4.7.3 Command and Coordination

The County Engineer or alternate, the Deputy Engineer, will be in charge of the Public Works Department emergency operations. Upon request, the County Engineer or designee will represent the Public Works Department at the County Emergency Operations Center. The County Engineer is responsible for ensuring that the Public Works Department is properly staffed for 24-hour per day operation and that adequate resources are available.

4.7.4 Protective Actions

Evacuation

The Public Works Department will support the Sheriff in evacuation operation by providing emergency transportation for evacuees, if necessary.

Access Control

The Public Works Department will support the Maryland State Police-Post U in access control operations by providing road barricades and personnel to man traffic control points.

4.7.5 Parallel Actions

The Public Works Department is a support agency for Return.

Return

The Public Works Department will support the County EM in return operations by providing transportation and traffic control assistance as requested.

4.7.6 Public Information

All media requests for information must be forwarded to the County PIO. Any assistance requested by the County PIO will be provided.

4.8 Department of Social Services

4.8.1 Accident Assessment

The Department of Social Services has no assigned responsibility for this function.

4.8.2 Notification and Communication

The Director, Department of Social Services, or alternate, the Supervisor, will be notified of an accident at Calvert Cliffs Nuclear Power Plant (CCNPP) by telephone call from the Calvert County Emergency Management (EM) Director. Work and home telephone numbers are provided for 24-hour notification. The notification will be verified according to Standard Operating Procedure. After receiving notification, the Department key personnel will be notified by telephone call. Work and home telephone numbers are available for 24-hour notification.

4.8.3 Command and Coordination

The Director, Department of Social Services, or alternate, is in charge of the Department of Social Services emergency response operations. The Director or designee will represent the Department at the County Emergency Operations Center. The Director will make requests for additional mass care personnel to the State Department of Human Resources. The Director is responsible for

ensuring that the Department of Social Services is properly staffed for 24-hour per day operation and that adequate resources are available.

4.8.4 Protective Actions

The Department of Social Services has no assigned responsibility for this function.

4.8.5 Parallel Actions

The Department of Social Services is the key County agency for Mass Care.

Mass Care

The Department of Social Services, as the key County agency for mass care operations, will be responsible for the coordination of food, clothing and other necessary resources for evacuees and other affected by the accident. The American Red Cross, the County Health Department, and the Board of Education will support the Department in mass care operations.

4.8.6 Public Information

All media requests for information must be forwarded to the County PIO. Any assistance requested by the County PIO will be provided.

4.9 Calvert Memorial Hospital

4.9.1 Accident Assessment

The Calvert Memorial Hospital has no assigned responsibility for this function.

4.9.2 Notification and Communication

The Hospital Administrator or alternate, the Assistant Administrator, will be notified of an accident at Calvert cliffs Nuclear Power Plant (CCNPP) by telephone call from the Calvert County Communications Center. The Administrator will be notified of an accident at CCNPP involving injury to personnel by telephone from CCNPP. Telephone numbers for 24-hour notification are provided. The Administrator will telephone call-up lists. Work and home telephone numbers are provided for 24-hour notification. On-duty hospital personnel will be notified over the hospital public address system. The Administrator will maintain communications with the Calvert County Emergency Operations Center by radio or telephone.

4.9.3 Command and Coordination

The Hospital Administrator or alternate, the Assistant Administrator, will be in charge of Calvert Memorial Hospital emergency response operations. The Hospital Administrator is responsible for ensuring that Calvert Memorial Hospital is properly staffed for 24-hour per day operation and that adequate resources are available.

4.9.4 Protective Actions

Calvert Memorial Hospital has no assigned responsibility for this function.

4.9.5 Parallel Actions

Calvert Memorial Hospital is a support agency for Emergency Medical Services and for Radiation Exposure Control.

Emergency Medical Services

Calvert Memorial Hospital will support the Department of Public Safety in emergency medical services operations by establishing a triage to sort and allocate treatment to emergency patients.

Radiation Exposure Control

Calvert Memorial Hospital will support the County EM in radiation exposure control operations by administering potassium iodide to emergency workers as directed by the County Health Officer. Calvert Memorial Hospital will also decontaminate and medically treat injured emergency workers.

4.9.6 Public Information

All media announcements should be coordinated with the County PIO prior to their release.

4.10 American Red Cross

4.10.1 Accident Assessment

The American Red Cross has no assigned responsibility for this function.

4.10.2 Notification and Communication

The American Red Cross Director or alternate, the Vice Chairman of the Disaster Chairman, will be notified of an accident at Calvert Cliffs Nuclear Power Plant (CCNPP) by telephone call from the Calvert County Emergency Management (EM) Director (24-hour notification is possible through an answering service). The notification will be verified according to Standard Operating Procedures. After receiving notification, the American Red Cross volunteers will be contact by telephone call or public announcements. Work and home telephone numbers are provided for 24-hour notification.

4.10.3 Command and Coordination

The American Red Cross Director or alternate is in charge of the American Red Cross emergency operations services from the County Emergency Operations Center (EOC). The Director is responsible for ensuring that the American Red Cross is properly staffed for 24-hour per day operations and that adequate resources are available.

The Regional American Red Cross Chapter will receive assistance from the National American Red Cross as necessary.

4.10.4 Protective Actions

The American Red Cross has no assigned responsibility for this function.

4.10.5 Parallel Actions

The American Red Cross is a support agency for Mass Care.

Mass Care

The American Red Cross will support the mass care operations of the Department of Social Services by providing volunteers to man and administer aid at mass care centers. The American Red Cross will obtain food, and supplies for mass care centers, if necessary, following declaration that a state of emergency exists.

4.10.6 Public Information

All Media Releases should be coordinated with the County PIO prior to their release.

4.11 Maryland State Police - Post U

4.11.1 Accident Assessment

The Maryland State Police-Post U is a support agency for Accident Assessment. The Maryland State Police-Post U will support the accident assessment operations by providing transportation and communication for field monitoring teams and equipment, as necessary.

4.11.2 Notification and Communication

The Maryland State Police-Post U Duty Officer will be notified of an accident at Calvert Cliffs Nuclear Power Plant (CCNPP) by radio, telephone, or intercom from the Calvert County Communications Center (24-hour coverage). Following completion appropriate log entries, the accident message will be verified according to Standard Operating Procedures. After receiving notification, the Duty Officer will then notify the Post Commander or alternate by radio, telephone, or beeper. The Post Commander will initiate a departmental call-up commensurate with the severity of the incident. The Duty Officer will notify on-duty personnel by telephone or radio. Communications will be maintained with the County Emergency Operations Center (EOC) and Maryland State Police personnel by radio.

4.11.3 Command and Coordination

The Post Commander or alternate will be in charge of the Maryland State Police-Post U emergency operations and coordinate activities with the County Sheriff from the County EOC. Initial requests for assistance will be made through established routine channels. If additional assistance is required, the request will be directed through the Calvert County Emergency Management (EM) Director. The Post Commander is responsible for ensuring that the Maryland State Police-Post U is properly staffed for 24-hour per day operation and that adequate resources are available.

4.11.4 Protective Actions

The Maryland State Police-Post U is a support agency for Take Shelter and for Evacuation. The Maryland State Police-Post U is a key agency for access control.

Take Shelter

The Maryland State Police-Post U will support the County EM in Take Shelter operations by dispatching police vehicles equipped with public address systems to inform the public of take-shelter procedures, if necessary.

Thyroid Protection

The Maryland State Police-Post U will support the County EM and Health Department in Thyroid Protection operations by dispatching police vehicles

equipped with public address systems to inform the public of thyroid protection procedures, if necessary.

Evacuation

The Maryland State Police-Post U will support the County EM in evacuation operations by dispatching traffic control and police vehicles equipped with public address systems to notify the public of evacuation procedures.

Access Control

The Maryland State Police-Post U, as the key agency in access control operations, will establish roadblocks and man designated access control points.

A listing of support agencies is presented in Table 1-2, Agency Responsibility Matrix.

4.11.5 Parallel Actions

The Maryland State Police-Post U is the key agency for Law Enforcement and Crime Prevention. The Maryland State Police-Post U is a support agency for return.

Law Enforcement and Crime Prevention

The Maryland State Police-Post U, as the key agency in law enforcement and crime prevention operations, will maintain civil order during and after the emergency.

A listing of support agencies is presented in Table 1-2, Agency Responsibility Matrix.

Return

The Maryland State Police-Post U will support the County EM in return operations by providing traffic control.

All media requests for information must be forwarded to the County PIO. Any assistance requested by the County PIO will be provided.

4.12 Department of Natural Resources - Natural Resources Police

4.12.1 Accident Assessment

The Natural Resources Police is a support agency for Accident Assessment. The Natural Resources Police will conduct on-water field monitoring and provide transportation over waterways for field monitoring teams, as necessary.

4.12.2 Notification and Communication

The Natural Resources Police Duty Officer will be notified of an accident at Calvert Cliffs Nuclear Power Plant (CCNPP) by telephone or radio from the Calvert County Communications Center (24-hour coverage). Following completion of appropriate log entries, the assign message will be verified according to Standard Operating Procedures. After receiving notification, the Duty Officer will notify the Regional Commander or alternate by radio or telephone. The Regional Commander will initiate a department call-up

commensurate with the severity of the accident. The Duty Officer will notify on-duty personnel by radio and off-duty personnel will be notified by telephone or radio. Communications will be maintained with the County Emergency Operations Center (EOC) and Natural Resources Police personnel by radio.

4.12.3 Command and Coordination

The Regional Commander will be in charge of the Natural Resources Police emergency operations and coordinate agency activities with the County EOC. Requests for assistance will be made through established routine channels. If additional assistance is required, the request will be directed through the Department of Natural Resources representative at the State EOC. The Regional Commander is responsible for ensuring that the Natural Resources Police is properly staffed for 24-hour per day operation and that adequate resources are available.

4.12.4 Protective Actions

The Natural Resources Police is a support agency for Take Shelter, Evacuation, and for Access Control.

Take Shelter

The Natural Resources Police will support the County EM in take shelter operations by notifying pleasure and commercial craft in the waters surrounding CCNPP. The Natural Resources Police will provide take shelter notification information to the mariners by public address systems from boats and/or motor vehicles, by personal contract, or by VHF or citizen's band radio. The Natural Resources Police will also provide boat transportation for evacuees from special areas, if necessary.

Thyroid Protection

The Natural Resources Police will support the County EM and Health Department in thyroid protection operations by notifying pleasure and commercial craft in the waters surrounding CCNPP. The Natural Resources Police will provide thyroid protection notification information to the mariners by public address systems from boats and/or motor vehicles, by personal contract, or by VHF or citizen's band radio. The Natural Resources Police will also provide boat transportation for evacuees from special areas, if necessary.

Evacuation

The Natural Resources Police will support the Sheriff in evacuation operations by notifying pleasure and commercial craft in the waters surrounding CCNPP. The Natural Resources Police will provide evacuation notification information to the mariners by public address systems from boats, and/or motor vehicles, by personal contact, or by VHF or citizen's band radio. The Natural Resources Police will also provide boat transportation for evacuees from special areas, if necessary.

Access Control

The Natural Resources Police will support the Maryland State Police-Post U in access control operations by restricting the access of small craft along waterways through the establishment and maintenance of access control panels.

4.12.5 Parallel Actions

The Natural Resources Police has no assigned function for Parallel Actions. However, the Natural Resources Police will provide support to the Sheriff and Maryland State Police as requested.

4.12.6 Public Information

All media requests for information must be forwarded to the County PIO. Any assistance requested by the County PIO will be provided.

5.0 COUNTY RESOURCES

A complete listing of County resources available is contained in the Calvert County Computerized Emergency Information System located in the EOC. Should the County require additional resources, the EM Director will make requests to contiguous Counties in accordance with mutual aid agreements or to the State through the State EOC.

COUNTY
TABLE 1-1
EMERGENCY FACILITY COMMUNICATION

This table identifies the primary and alternate methods of communication between Calvert County EOC and other emergency facilities, which may be activated in response to an emergency at CCNPP.

FACILITY/ ORGANIZATION	CONTACT	METHOD OF COMMUNICATION
State EOC		
MEMA	1. Operations Group Chief 2. Alternate Team Chief	1. NAWAS 2. MCD Radio 3. Radio Relay 4. Commercial Telephone 5. Dedicated Line 6. Internet
Dorchester EOC		
EM	1. Director 2. Alternate Director	1. NAWAS 2. Commercial Telephone 3. Radio 4. Dedicated Line 5. Internet
St. Mary's EOC		
EM	1. Director 2. Deputy Director	1. NAWAS 2. Commercial Telephone 3. Radio 4. Dedicated Line 5. Internet
Accident Assmt. Ctr.		
MDE	1. RHP personnel	1. Commercial Telephone 2. DCC Net Radio 3. Dedicated Line Telephone to EOF 4. CEG Radio 5. Internet

COUNTY
TABLE 1-1 (con't)

EMERGENCY FACILITY COMMUNICATION

FACILITY/ ORGANIZATION	CONTACT	METHOD OF COMMUNICATION
CCNPP EOF		
CEG	1. Emergency Director 2. EOF Director	1. Dedicated Line Telephone 2. CEG Radio 3. Commercial Telephone
Media Center		
CEG	1. Public Information Support Manager	1. Commercial Telephone

TABLE 1-2
CALVERT COUNTY
AGENCY RESPONSIBILITY MATRIX

	PROTECTIVE ACTIONS								PARALLEL ACTIONS					
AGENCY	ACCIDENT ASSESSMENT	NOTIFI-CATION AND COMMUN-ICATION	COMMAND AND CORRDI-NATION	TAKE SHELTER	THYROID PROTECTION	EVACUATION	ACCESS CONTROL	FOOD,WATER, MILK, AND LIVESTOCK FEED CONTROL	EMERGENCY MEDICAL SERVICES	RADIATION EXPOSURE CONTROL	LAW ENFORCEMENT AND CRIME PREVENTION	MASS CARE	RETRUN	PUBLIC INFOR-MATION
BOARD OF C OUNTY COMMISSIONERS COUNTY ADMINSTRATOR	CMD	CMD	CMD	CMD INIT	CMD INIT	CMD INIT	CMD INIT	CMD INIT	CMD	CMD	CMD	CMD	CMD	S
PUBLIC INFORMATION OFFICER	PI 1A	PI 1A	PI 1A	PI 1A	PI 1A	PI 1A	PI 1A	PI 1A	PI 1A	PI 1A	PI 1A	PI 1A	PI 1A	KEY
EMERGENCY MANAGEMENT	COORD S, 3A	COORD KEY	COORD	COORD KEY	COORD KEY	COORD	COORD	COORD	COORD	COORD KEY	COORD	COORD	COORD KEY	S
SHERIFF	2A 2B			1B, 1C	1B, 1C	KEY 1B,1C	S				S		S	S
DEPARTMENT OF PUBLIC SAFETY		S	S	1B, 1C	1B, 1C	1B, 1C			S	4A,4B 6A,6B,6C				S
FIRE AND RESCUE (DPS)				1B, 1C	1B, 1C	1B, 1C			KEY	4A,4B 6A,6B,6C				
HEALTH DEPARTMENT	3B				KEY			S		5		S		S
BOARD OF EDUCATION						2A						S	2A	S
PUBLIC WORKS						2A	S						S	S
DEPARMENT OF SOCIAL SERVICES												KEY		S
CALVERT MEMEORIAL HOSPITAL									S	6B				S
AMERICAN RED CROSS												5		S
MARYLAND STATE POLICE - POST U	2A 2B			1B, 1C	1B, 1C	1B, 1C	KEY				KEY		S	S
DEPARTMENT OF NATURAL RESOURCES NATURAL RESOURCES POLICE	2A, 2B, 3A			1B, 1C	1B, 1C	1B, 1C	S							S
DEPT OF THE ENVIRON.	KEY			INIT	INIT	INIT		INIT					INIT	S
DEPARTMENT OF HEALTH AND MENTAL HYGIENE	S, 3A							KEY						S
DEPT. OF GEN. SERVICES										4.A,5		S		
RADIOLOGICAL OFFICER										3A, 4A, 4B, 4C, 6A, 6B, 6C				S

Notes

CMD - Overall Command
COORD - Overall Coordination
PI - Public Information
KEY - Key Agency
S - Support Key Agency

Support Agency Functions

1A - Initial Public Notification via Radio or TV
1B - Initial Public Notification via Mobile and//or Fixed Public Address or Alert System
1C - Initial Public Notification via Direct Contact
2A - Provide Transportation
2B - Provide Communications
3A - Field Monitoring
3B - Provide Sampling
4A - Monitor Evacuee Exposure
4B - Monitor Emergency Worker Exposure
4C - Monitor Equipment and Materials
5 - Keep Records/Submit Reports
6A - Decontamination of Evacuees
6B - Decontamination of Emergency Workers
6C - Decontamination of Equipment and Materials
INIT - Initiating Agency

TABLE 1-3

CALVERT COUNTY

FUNCTIONAL RESPONSIBILITY AND KEY INDIVIDUALS LISTING

Function	Key Agency	Responsible Individual	Alternate Individual
Accident Assessment	Department of the Environment	Secretary	Assistant Secretary
Protective Actions			
Take Shelter	County Division of Management	Director	EM Assistant
Thyroid Protection	Health Department	Health Officer	Asst. Health Officer
Evacuation	Sheriff	Sheriff	Deputy Sheriff
Access Control	Maryland State Police-Post U	Post Commander	(Designee)
Food, Water, Milk, and Livestock Feed Control	Health Department (County Operations)/ Department of Health and Mental Hygiene (State Operations)	Health Officer/ Secretary	Director of Environmental Health/Deputy Secretary
Parallel Actions			
Emergency Medical Services	Fire and Rescue Service	Fire & Rescue Officer	(Designee)
Radiation Exposure Control	County Division of Emergency Management	Director	EM Assistant
Law Enforcement and Crime Prevention	Maryland State Police- Post U	Post Commander	(Designee)
Function			
Mass Care	Department of Social Services	Director	Assistant Director
Return	County Division of Emergency Management	Director	EM Assistant
Public Information	Board of County Commissioners	Public Information Officer	(Designee)

TABLE 1-4

EMERGENCY PLAN MAINTENANCE RESPONSIBILITY

AGENCY	RESPONSIBLE INDIVIDUAL
Board of Commissioners	Director, Division of Emergency Management
Division of Emergency Management	Director, Division of Emergency Management
Sheriff's Office	Sheriff
Department of Public Safety	Director
Health Department	Health Officer
Board of Education	Superintendent of Schools
Public Works Department	County Engineer
Department of Social Services	Director
Calvert Memorial Hospital	Administrator
American Red Cross	Disaster Chairman
Maryland State Police-Post U	Barrack Commander
Natural Resources Police	Assistant Chief, Marine Division

CALVERT COUNTY

RADIOLOGICAL

EMERGENCY

PLAN

&

STANDARD

OPERATING

PROCEDURES

REP/SOP SECTION CROSS REFERENCE

CALVERT COUNTY

ATTACHMENT/ AGENCY	ACCIDENT ASSESSMENT	NOTIFICATION AND COMMUNICATION	COMMAND AND COORDINATION	PROTECTIVE ACTIONS				
				TAKE SHELTER	THYROID PROTECTION (POTASSIUM IODIDE)	EVACUATION	ACCESS CONTROL	FOOD, WATER, MILK, AND LIVESTOCK FEED CONTROL
REP SECTION	3.1.5.2.1.	3.4.1.2.	3.4.1.3.	3.4.1.4				
Board of Co Comm & Admin Dir	5.0	4.0	2.0	6.0	6.0	6.0	6.0	6.0
Emerg Operating Center (EOC)	5.0	4.0	2.0	6.2	6.1	6.3	6.4	6.5
Accident Assess (Field Monitor)	(See Attachment #3)							
Radiation Exposure Control	(See Attachment #3)							
Public Information	(See Attachment #5)							
Sheriff's Department	5.0	4.0	2.0	6.1		6.2	6.3	-
Department of Public Safety	-	4.0	2.0				-	-
Health Department	5.0	4.0	2.0	-		-	-	6.1
Board of Education	-	4.0	2.0	-		5.1	-	-
Dept of Public Works	-	4.0	-	-		5.1	5.3	-
Calvert Memorial Hospital	-	p.2	p.2	-		-	-	-s
Department of General Services	-	4.0	2.0	-		-	-	-
Department of Social Services	-	4.0	2.0	-		-	-	-
American Red Cross	-	4.0	2.0	-		-	-	-
MD State Police-Barrack "U"	p.3	p.2	p.1	p.4		p.4	p.4	-
Natural Resources Police	5.0	4.0	2.0	6.1		6.2	6.3	-
Farm Services Agency	5.0	4.0	2.0	6.1		6.2	6.3	-

REP/SOP SECTION CROSS REFERENCE

CALVERT COUNTY

ATTACHMENT/ AGENCY	EMERGENCY MEDICAL SERVICES	RADIATION EXPOSURE CONTROL PREVENTION	LAW ENFORCEMENT	MASS CARE	RETURN	PUBLIC INFORMATION
REP SECTION	3.4.1.5					
Board of Co Comm & Admin Dir	7.0	7.0	7.0	7.0	7.0	8.0
Emerg Operating Center (EOC)	7.1	7.2	7.3	7.4	7.5	7.0
Accident Assess (Field Monitor)	(See Attachment #3)					
Radiation Exposure Control	(See Attachment #3)					
Public Information	(See Attachment #5)					
Sheriff's Department	-	-	7.1	-	7.2	8.0
Department of Public Safety	5.2;5.3	5.4	-	-	-	6.0
Health Department	-	7.1	-	7.2	-	8.0
Board of Education	-	-	-	6.1	6.2	7.0
Dept. of Public Works	-	-	-	-	6.1	7.0
Calvert Memorial Hospital	Att. A	Att. D	-	-	-	
Department of General Services	-	-	-	5.1	-	6.0
Department of Social Services	-	-	-	5.1	-	6.0
American Red Cross	-	-	-	5.1	5.1	6.0
MD State Police-Barracks "U"	-	p.4	p.4	-	p.4	p.5
Natural Resources Police	-	-	-	-	7.1	8.0
Farm Service Agency	5.0	4.0	2.0	6.1	6.2	6.3 -

TO: State and County Departments and Agencies Having Functions in The Calvert County REP

SUBJECT: IMPLEMENTATION OF THE COUNTY RADIOLOGICAL EMERGENCY PLAN (REP) FOR CALVERT CLIFFS NUCLEAR POWER PLANT

1.0 **REFERENCES**

1.1 NUREG-0654, Rev. 1
1.1 Annex Q (Maryland REP)

2.0 **SCOPE** - This memo is aimed to those County, State, and Private Departments and Agencies having functions in the County Plan.

3.0 **PURPOSE** - The purpose is to outline the manner in which assigned functions are implemented and coordinated. It also provides requirements common to two or more organizations within the County.

4.0 **CONCEPTS**

4.1 Implementation of the County REP is keyed either upon order (see Section 8.7 below) or to the four accident classifications (whichever occurs first) which are listed below in increasing order of severity:

4.1.1 Unusual Event

4.1.2 Alert

4.1.3 Site Area Emergency

4.1.4 General Emergency

4.2 Activation of the County EOC is commensurate with the emergency class declared by CCNPP.

Emergency Class	Level of Activation	County Representatives
Unusual Event	None	None required
Alert	Partial	All
Site Area Emergency	Full	All*
General Emergency	Full	All*

* County, State, and Private Departments and Agencies having functions in the County REP will provide EOC representatives.

4.3 The six REP functions will be implemented according to the REP or when directed by the official listed in Section 8.7.

4.3.1 **Accident Assessment** - The State REP designates the State Department of the Environment (MDE) as having the primary or key role in Accident Assessment. Calvert County will conduct additional field radiological monitoring in support of its own Accident Assessment. The accident Assessment SOP provides for specific details.

4.3.2 **Notification and Communications** - Notification from CCNPP will be received by the 24-hour operated Central Communications Control via a dedicated "hotline" telephone connecting the EOC with the plant. A radio backup system will be used in case the landline system fails.

Initial notification fan-out will be commensurate with the emergency class declared by CCNPP. Each organization having a function in the County REP will include in its own SOPs its fan-out notification procedures. Home and business telephone numbers are listed for all persons designated to receive a notification. Verification will be by call-back unless secured telecommunications systems are used in transmitting the notification, or by voice recognition. Communications are discussed further in Section 7.

4.3.3 **Command and Coordination** - See Section 8 below for detail on Direction and Control within the County.

4.4.4 **Protective Actions** - Based on the information and recommendations from CCNPP, data from County and State field monitoring teams and recommendations or directive from the Governor or Secretary, MDE, it may become necessary for the county to implement one or more Protective Actions. These include Thyroid Protection (KI), Take Shelter, Evacuation, Access Control, and Food, Water, Milk, and Livestock Feed Control. See Appendix Q-1, Section 3.1.5.2.4 for discussion of each Protective Action. Additionally, Food, Water, Milk, and Livestock Feed Control are further discussion Annex Q, Section 8, Ingestion Zone Operations.

4.4.5 **Parallel Actions** - Soon after implementation of the Protective Actions, it may be necessary to initiate "parallel" efforts. These Parallel Actions include Emergency Medical Service, Radiation Exposure Control, Law Enforcement and Crime Prevention, Mass Care, and Reentry. See Annex Q, for a discussion of each Parallel Action.

4.4.6 **Public Information** - While Protective and Parallel Actions are keyed to circumstances, which may develop probably after the General Emergency is declared, the County Public Information Program may have to be activated earlier in time either at the Alert or Site Area Emergency notification level. See Public Information SOP for details.

5.0 **RADIATION EXPOSURE CONTROL** - Emergency workers will not be allowed into controlled areas unless they have complied with the provisions of sub-sections 5.1, 5.2, and 5.3 below.

5.1 All emergency workers North of the Plant having a need to enter controlled areas must first check in at the County EOC, Courthouse, Prince Frederick, with the exception of police personnel and school bus drivers. Police personnel will report to the Maryland State Police Barrack "U", Prince Frederick. School bus drivers will report to an area designated by the Transportation Officer or his designee. All emergency workers South of the Plant will report to the Solomon's Volunteer Fire Department, Route 4, Solomon's before entering controlled areas.

5.2 Each emergency worker at either location will obtain the following:

5.2.1 Self-reading dosimeter(s) (SRD).

5.2.2 Permanent dosimeter (TLD) - one for each emergency worker.

5.2.3 Radiation Exposure Records.

5.3 Before departing on a mission, each emergency worker will:

5.3.1 Obtain the latest information of expected dose rates, stay times, turn back radiation levels and other precautions.

5.3.2 Obtain and take Potassium Iodide as ordered by the County Health Officer.

5.3.3 Make sure that he or she has available or is equipped with a radio receiver which will allow receipt of information which may be critical to his or her health while in controlled areas. Transceivers are strongly recommended.

5.4 Upon completion of a mission, the emergency worker:

5.4.1 Reports back with the vehicle and equipment used to the check-in location.

5.4.2 Is checked for possible contamination and undergoes decontaminating, if necessary. The vehicle and equipment will also be monitored and, if necessary, decontaminated.

5.4.3 Turns in issued equipment and;

5.4.4 Insures that his/her radiation exposure is recorded.

5.4.5 Be informed if any further exposure if allowable.

5.5 See Radiation Exposure Control SOP for conditions on allowable doses.

5.6 The Calvert Cliffs Nuclear Power Plant will make its own arrangement for providing its personnel with the necessary dosimetry, radiation exposure records and information.

6.0 **LOGISTICS AND SUPPLY** - The County Emergency Management Director or designee will provide guides as requested by any organization from outside the County.

6.1 Normal supply procedures will apply. All requests for resources support, manpower, equipment, materials or food, will be directed to the County EOC, Attention: Emergency Management Director/designee, who is responsible for coordination to ensure uninterrupted provision of needed resources on a 24-hour basis.

6.2 The Emergency Management Director or designee may then either use local resources, forward the request to the State EOC if local resources are inadequate, or request help from an unaffected contiguous county through Local Mutual Aid Agreement.

6.3 Normal procedures for refueling government-owned and emergency vehicles will apply.

6.4 Private gasoline stations will be asked to stay open on a 24-hour basis if circumstances dictate that an evacuation is necessary or imminent of there is a need for round-the-clock-refueling.

6.5 Normal facilities for eating will be utilized. If necessary, the Emergency Management Director or designee will ask eating establishments to stay open beyond normal work hours in order to accommodate emergency workers and EOC shift personnel. Or, circumstances may dictate the establishment of locations where food may be obtained, e.g., the high schools' cafeterias. Times and locations will be announced if this occurs.

6.6 Federal Agencies and Federally contracted organizations requested by the county to provide off-site assistance will, as a condition to support, be required to furnish their own resources, including, but not limited to, transportation, personnel, lodging and communications. Local resources may be utilized if available, but it is assumed that these will be exhausted.

7.0 **COMMUNICATIONS**

7.1 Normal communication systems and procedures will apply. Primary means: Telephone within county and from county to other jurisdictions and the State EOC, Reisterstown. Secondary means: Existing radio systems. See Table 1-1 for communications between emergency facilities.

7.2 County EOC representatives occupy a table that houses unlisted telephones. Numbers will be provided at the time of emergency.

7.3 The County Health Officer in the County EOC, Prince Frederick, will have available a dedicated telephone permitting quick contact with the Accident Assessment Center at the Emergency Operations Facility near Prince Frederick.

7.4 Details concerning interface with communications of Federal off-site response organizations will be worked out with those organizations' advance parties prior to the arrival of the main parties in the County and the commencement of their operations. Details as to frequencies, call signs and Net Control System (NCS) will then be published and distributed.

7.5 For rumor "hotline," see section 10 below.

7.6 Telephone numbers for County, State, and private agencies operating within the county are maintained by the Emergency Management Office.

8.0 DIRECTION AND CONTROL

8.1 Line of succession to the Head of Government is as follows:

- President, Board of Commissioners,
- Vice-President, Board of Commissioners,
- Commissioner designated by President or Vice President of Board of Commissioners.

8.2 Overall incident command (including coordination of resources requests and utilization) will be from the County Emergency Operating Center (EOC), County Courthouse, Prince Frederick.

8.3 Alternate EOC will be at the Maryland National Guard Armory, Armory Road and Route 4, Prince Frederick, unless circumstances dictate otherwise.

8.4 County Official in charge of EOC and overall coordination:

8.4.1 County Director of Emergency Management or designee

8.5 The Director, County Environment Protection Division of the county Health Department is the County Liaison to the CCNPP Emergency Operations Facility (EOF) located in the Calvert County Industrial Park on Skipjack Rd., off Route 231 near Barstow, Maryland. He or His alternate may report to the EOF (or maintain contact from the county EOC) upon notification of a Site Area Emergency or General Emergency. The Alternate County Liaison Officer is the Assistant Director, County Environmental Protection Division of the Calvert County Health Department.

8.6 County Official who is the principal spokesperson for the County Government is the President of the Board of County Commissioners or Designated Commissioner; Alternate: County Administrator.

8.7 Protective and Parallel Actions will be implemented on order of any of the following:

- Governor,
- State Secretary of the Environment,
- President, Board of Commissioners of Calvert County.
- Director, Emerency Management

8.8 CCNPP zone maps are available at the County EOC.

8.9 All personnel and emergency workers who reside within the 10-mile radius plume zone will ensure before reporting for duty that their families are familiar with Protective Actions that may be directed by the County or State Government and that they have the capability of taking those actions.

9.0 RECORDS AND REPORTS

9.1 All records of expenditures, message tapes, copies of messages, reports, overtime records, journals, and other record of the accident must be retained, safeguarded and made available by the holder as/or until otherwise directed by the President, Board of Commissioners of Calvert County.

9.2 Status reports due at County EOC as directed. Negative reports required.

10.0 **RUMOR CONTROL** - A Rumor Control "hotline" will be established when the Site or General Emergency is declared. Hotline phone number will be released to local news media for dissemination to public when the phone line is activated.

11.0 These implementing instructions are effective for further planning immediately upon receipt and for implementation upon order or receipt of a particular accident notification, whichever occurs first.

_____/_____

President Date
Board of County Commissioners

DISTRIBUTION:

Commissioners (1 each, total 5)
County Administrator (1)
County Emergency Management Director (2)
County Health Officer (1)
Sheriff (1)
Director, Department of Public Safety (1)
Superintendent, Board of Education (1)
Public Works Division (1)
Director, Farm Service Agency
Director, Department of Social Services (1)
Director, American Red Cross, Calvert (1)
Barrack Cmdr., Maryland State Police (1)
CO. Company A 121st Engr. Bn., National Guard,
Prince Frederick (1)
State Department of Natural Resources Police (1)
County Agricultural Agent (1)
State EOC, Reisterstown, Md. (1)
Anne Arundel County Emergency Management (1)
Calvert County EOC (5)
State Fire Marshal for Calvert County (1)
Calvert Cliffs Nuclear Power Plant, Inc. (1)
Charles County Emergency Services (1)
St. Mary's County Emergency Management (1)
County Radiological Officer (1)

CALVERT COUNTY

AGENCY STANDARD OPERATING PROCEDURES LISTING

Attachment 1	Board of County Commissioners and County Administrator
Attachment 2	Division of Emergency Management
Attachment 3	Accident Assessment (Field Monitoring)
Attachment 4	Radiation Exposure Control
Attachment 5	Public Information
Attachment 6	Sheriff's Department
Attachment 7	Department of Public Safety
Attachment 8	Health Department
Attachment 9	Board of Education
Attachment 10	Public Works Department
Attachment 11	Department of General Services
Attachment 12	Department of Social Services
Attachment 13	American Red Cross
Attachment 14	Maryland State Police - Barracks "U"
Attachment 15	Natural Resources Police
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Attachment 17	Farm Services Agency

Calvert County Radiological Emergency Plan & Standard Operating Procedures

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ATTACHMENT #1

BOARD OF COUNTY COMMISSIONERS AND COUNTY ADMINISTRATOR

STANDARD OPERATING PROCEDURE

1.0 RESPONSIBILITIES

The responsibilities of the Board of County Commissioners are outline in the Calvert County Radiological Emergency Plan.

2.0 COMMAND AND COORDINATION

2.1 The President of the Board or alternate, as clarified in Resolution 43.81, is in overall command of the county emergency response operations. He/she will establish liaison with the Governor's office through the State Emergency Management Agency.

2.2 The President will ensure notification and coordination with contiguous counties, Secretary MDE, State EOC, and CCNPP of any contemplated or completed protective and parallel actions, public information and changes thereto.

3.0 IMPLEMENTATION

This section identifies the pre-planned response to each emergency class declared by CCNPP. The accident classes are Unusual Event, Alert, Site Area Emergency, and General Emergency. Each of these classes require notification of applicable agencies and support groups, and mobilization of the applicable portion of the emergency organization to cope with the emergency and continue the accident assessment function.

Unusual Event - The Unusual Event class requires notification of site occurrences in which a degradation of either nuclear fuel, reactor coolant system, or containment building has occurred and resulted in a plant unit being placed in a lower mode of operations as required by the technical specifications. The incident is classified as an Unusual Event only if the event is a minor one and no releases of radioactive material requiring offsite response or monitoring are expected unless further degradation of safety system occurs. Events in this class are selected based on a potential to degenerate to a more severe situation.

Alert - The Alert is classified as a condition where a degradation of either the nuclear fuel, reactor coolant system, or the containment building has occurred and resulted in a plant unit being placed in a lower mode of operation as required by the technical specifications and combined with a radiological effluent release that could cause site boundary doses of 0.010 rem whole body (EDE + CEDE).

The alert class includes emergency situations that are expected to be minor in nature, but where it has been deemed prudent to notify some off-site emergency participants and mobilize a portion of the emergency organization. Because of the nature of the Alert class, (limited releases of radioactive material), off-site mobilization and assessment actions may be initiated to assure that emergency personnel are readily available to respond if the situation becomes more serious, to perform confirmatory radiation monitoring, if required, and to provide on-site personnel with off-site information as necessary. Precautionary protective actions such as closing parks and schools may be implemented. When an alert has been declared, Calvert Cliffs Emergency Response Organization will be notified and the emergency centers will be activated.

Site Area Emergency - The Site Area Emergency class includes accident conditions in which actual or likely major failures of plant functions required for the protection of site personnel and the general public occur. The Site Area Emergency is classified as a condition where a degradation of the nuclear fuel, the reactor coolant system, or the containment building has occurred. This results in a plant unit being placed in a lower mode of operation as required by the technical specifications. A projected dose at the site boundary of equal to or greater than 0.1 rem (EDE +CEDE) to the whole body or .5 rem CDE to the thyroid.

Although immediate protective actions are not automatically required, declaration of a Site Area Emergency will set into motion all personnel onsite and offsite that would be required to perform actions up to and including the evacuation of an onsite area. All monitoring teams that provide information required by the Emergency Management Director will be dispatched. The Site Area Emergency class includes accidents, which have a significant radiation release potential.

General Emergency - The highest class of emergency is the General Emergency. This classification includes accident conditions where a degradation of the nuclear fuel, the reactor coolant system, or the containment building has occurred and results in a plant unit being placed in a lower mode of operation as required by the technical specifications. Any of the aforementioned may cause a projected dose at the site boundary of equal to or greater than 1.0 rem (EDE+CEDE) to the whole body or 5.0 (CDE) rem to the thyroid.

The General Emergency indicates that predetermined protective actions for the public may have to be implemented, provides continuous assessments of information from plant and offsite agencies, and initiates additional measures as may be necessary due to actual or potential releases.

3.1 **Unusual Event** - no response required.

3.2 **Alert**

3.2.1 The President of the Board of County Commissioners upon notification from the County Emergency Management Director or designee will report to the County EOC. Additional county agencies will be notified as required for the event.

3.3 **Site Area Emergency**

Same as Alert.

3.4 General Emergency

3.4.1 Same as Site Area Emergency.

3.4.2 Issue a Proclamation of a State of Emergency after reviewing situation and County capabilities to respond to the situation.

4.0 NOTIFICATION AND COMMUNICATION

4.1 Initial Notification

4.1.1 Upon notification, verify the authenticity and contact of the message by return call to the County Emergency Management Director or designee.

4.1.2 The President of the Board will ensure that the County Emergency Management Director or designee has notified all of the other commissioners.

4.2 Communications

4.2.1 Communications with the Commissioners will be by commercial telephone.

4.2.2 Communications with the EOC will be by commercial telephone.

4.2.3 Communications with contiguous County EOCs will be by **NAWAS**, commercial telephone or radio.

5.0 ACCIDENT ASSESSMENT

The President of the Board or designee is in overall command of County Operations for accident assessment in the event of an accident at CCNPP and will constantly monitor the accident status. In the absence of any recommendations or directives from the Secretary, MDE, or the Governor, the Board will consult with the County Health Officer and the County Emergency Management Director or designee to determine appropriate Protective Actions.

6.0 PROTECTIVE ACTIONS

The President of the Board will oversee Calvert EM and the key county and support agency operations in the implementation of Protective Actions necessary to ensure public health and safety. These actions may consist of Thyroid Protection (Potassium Iodide), Take Shelter, Evacuation, Access Control, and Food, Water, Milk, and Livestock Feed Control measures as may be recommended by the EOC staff members, or as directed by the Secretary MDE, or the Governor.

7.0 PARALLEL ACTIONS

The Board will direct the EM overall coordination and the key County and support agencies operations in the implementation of Parallel Actions necessary to ensure public health and safety. Such Parallel Actions may include Emergency Medical Services, Radiation Exposure Control, Law Enforcement and Crime Prevention, Mass Care, Return and Reentry.

8.0 PUBLIC INFORMATION

The Public Information Officer will implement the County Public Information Program to keep the public informed of the situation. The Public Information Program is described in the Public Information SOP that contains sample news releases and media contact numbers. The PIO will keep the State PIO informed of all news releases.

The County PIO or Designee will respond to the St. John Vianney Parish Center upon activation. The County PIO will contact the State PIO at the news Media Center and assist and coordinate County news releases and keep the President of the Board informed of all news releases.

9.0 SOP REVIEW AND UPDATING

The County Emergency Management Director or designee will coordinate, review and update this SOP as required.

ATTACHMENT #2
CALVERT COUNTY

DIVISION OF EMERGENCY MANAGEMENT
STANDARD OPERATING PROCEDURE

1.0 RESPONSIBILITIES

The responsibilities of the County Division of Emergency Management (EM) are outlined in the Calvert County Radiological Emergency Plan. Calvert EM is the overall coordinating agency for county agency actions.

2.0 COMMAND AND COORDINATION

2.1 The Director or his alternate is the incident commander in charge of the County emergency response operations. The Director or designee is responsible for ensuring that the agency is properly staffed and sufficient personnel are available for 24-hour operations for a protracted period.

2.2 Normal procedures will be utilized for obtaining necessary resources. When county resources become exhausted, requests for additional resources will be made to the Director, MEMA in Reisterstown.

2.3 The Director/designee will ensure coordination and notification of contiguous counties; Secretary, MDE; State EOC; and CCNPP of any implemented or completed protective and parallel actions, public information, and changes thereto.

3.0 IMPLEMENTATION

This section identifies the pre-planned response to each emergency class declared by CCNPP.

3.1 Unusual Event

3.1.1 The EOC is not activated.

3.1.2 The EM Director or designee will implement Unusual Event notification fan-out, (Tab A).

3.2 Alert

3.2.1 The EM Director or designee will implement alert notification fan-out, (Tab B).

3.2.2 The County EOC may be fully activated.

3.2.3 Notify RO and have ground monitoring teams on standby.

3.2.4 Precautionary protective actions may be implemented such as closing parks and schools

3.2.5 Notify Sheriffs department to assemble route alerting teams.

3.2.6 Notify PIO to implement the Public Information Program. (EM Specialist)

3.2.7 Notify RO to relocate radiation exposure instruments (TLDs, SRDs or EPDs, Radiacs, Portal Monitors, etc.) and records to reception centers for emergency workers.

3.2.8 If escalation to Site Area Emergency is imminent, the EM Director or designee may consider activation of the siren warning system and EAS.

3.3 Site Area Emergency

3.3.1 The EM Director or designee will implement the Site Area Emergency notification fan-out (Tab B).

3.3.2 The County EOC will be fully activated.

3.3.3 Notify RO to dispatch ground monitoring teams as required.

3.3.4 Notify PIO to continue the Public Information Program.

3.3.5 Notify RO and County Health Officer to implement Radiation Exposure Control SOP.

3.3.6 The County EM Director or designee and EOC staff will implement Protective and Parallel Actions on order of the Governor, the Secretary of MDE, or the President, Board of Commissioners of Calvert County.

3.3.7 The EM Director or designee may notify the Communications Officer in the Control Center to activate the warning system sirens or public emergency telephone notification system.

3.3.8 The EM Director/designee on direction from the President of the Board of County Commissioners may order a two (2) mile precautionary evacuation (Protective Action Zone #1).

3.3.9 The EM Director/designee on direction from the President of the Board of County Commissioners may order an evacuation of risk schools

3.3.10 The EM Director or designee, will activate EAS as required .

3.3.11 The County News Media Representative will proceed to the CEG Media Center.

3.4 General Emergency

3.4.1 The EM Director or designee will implement the General Emergency notification fan-out (Tab B).

3.4.2 The County EOC will be fully activated.

3.4.3 The EM Director or designee will keep the State EOC informed of developments. (EM Specialist)

3.4.4 The State liaison officer to the County EOC will be briefed upon arrival.

3.4.5 Implement the Radiation Exposure Control SOP. (EM Ops Officer)

3.4.6 The Public Information Program will continue.

3.4.7 The EM Director or designee and EOC staff will advise the County Commissioners and implement protective and parallel actions as directed.

3.4.8 Establish access control points as required.

3.4.9 Consideration will be given to issuing a Declaration of Emergency when any protective or parallel action is implemented.

3.4.10 Reception Centers and Mass Care Centers will be kept informed of evacuation progress. (EM Ops Officer)

3.4.11 Requests for assistance and emergency funding will be submitted to State EOC as required. (EM Specialist)

3.4.12 The EM Director or designee will ensure the RO simultaneously plots and reports readings from ground monitoring teams to State Accident Center (AAC) and (through State Liaison Officer) to MEMA. (EM Specialist)

3.4.13 The EM Director or designee will ensure that the County Health Officer or his designee issues KI as required to all emergency workers at Assembly Area (130 milligrams once a day, not to exceed 10 days), if conditions warrant potential usage.

3.4.14 The EM Director or designee will ensure that the County Health Officer or his designee issues KI as required to members of the general public at Reception Centers or Mass care centers, if conditions warrant potential usage.

3.4.15 The EM Director or designee will ensure that MSP set up Access Control Points and instructs personnel at those points to permit access only to authorized individuals properly equipped with self-reading dosimeters, record forms and radio-equipped vehicles capable of maintaining contact with County Central Communications. Exception: CCNPP Personnel.

3.4.16 The EM Director or designee will ensure that the County Health Liaison reports to or is in contact with CCNPPs Emergency Operating Facility.

4.0 NOTIFICATION AND COMMUNICATION

4.1 Initial Notification

4.1.1 Upon notification of an emergency from CCNPP over the dedicated phone, complete the CCNPP Initial Accident Report Form.

4.1.2 Contact agencies on Tab A or B as appropriate for the emergency class.

4.2 **Communication**

4.2.1 Communications with agency personnel will be by routine channels (commercial telephone)

4.2.2 Communications with county radiological field monitoring teams are by Cell Phone, Fire, Rescue, Police and County Health radios, and amateur radio group.

4.2.3 All other communications with county agencies, contiguous counties, and State agencies are by commercial telephone, NAWAS, facsimile machine or radio as shown in Table 1-1, Emergency Facility Communications.

4.2.4 Communication with the public may be through, the local EAS stations, activation of "Code Red" and the news media. See Attachment 5, PIO SOP.

4.2.5 Rumor control for the public is provided through press releases generated by the Emergency PIO.

5.0 ACCIDENT ASSESSMENT

5.1 The EM Director or designee maintains contact with the RO for current county field monitoring data; CCNPP data and recommendations.

5.2 The EM Director or designee maintains contact with the County Health Officer to obtain the most current data and recommendations from State Department of the Environment available to him.

5.3 The EM Director or designee maintains contact with Maryland Emergency Management Agency Operations Group so that recommendations from the Governor or the Secretary of the Environment regarding protective and parallel actions are available.

5.4 The EM Director or designee evaluates the data and/or recommendations to aid him in making recommendations to the Board of County Commissioners. Other protective and parallel actions are initiated as appropriate to the foregoing decision.

6.0 PROTECTIVE ACTIONS

6.1 Thyroid Protection (KI)

Note
The decision to recommend ingestion of KI by the general public may be done in parallel with Evacuation or Take Shelter

When the decision is made to recommend that the general public ingest KI, the EM Director or designee takes the following actions:

6.1.1 Inform the EOC staff of the decision and direct the Health Department and other appropriate agencies to initiate the required actions.

6.1.2 Provides specific information to the Public Information Officer for use in preparing public information releases. Review the EAS message and Special News Broadcast (SNB) releases. Submit the announcement to the Board of County Commissioners for approval to read over the Emergency Alert System.

6.1.3 Contact the Maryland Emergency Management Agency (MEMA), CCNPP, and contiguous counties to coordinate the protective action decision.

6.1.4 Activate the warning sirens and initiate EAS message. Provide SNB

6.2 **Take Shelter**

Note
The decision to Take Shelter may be done in parallel with the ingestion of KI

When the decision is made to take shelter, the EM Director or designee takes the following actions:

6.2.1 Inform the EOC staff of the decision and direct the appropriate agencies to initiate the required actions.

6.2.2 Provides specific information to the Public Information Officer for use in preparing public information releases. Review and approve the EAS message and Special News Broadcast (SNB) releases to read over the Emergency Alert System.

6.2.3 Contact the Maryland Emergency Management Agency (MEMA), and contiguous counties to coordinate the protective action decision.

6.2.4 Activate the warning sirens and initiate EAS message. Provide SNB

6.3 Evacuation

The coordination activities in the EOC are the same as for Take Shelter. In addition, the following actions are also taken:

6.3.1 Provide periodic up-date on the progress of the evacuation to the State EOC.

6.3.2 Coordinate the resources of the various key and support agencies.

6.3.3 Insure that evacuation routes are passable through evaluation of current road conditions and any potential impediments (snow, ice, flooding, constructions, bridges) and coordinate actions of key and support agencies.

6.4 Access Control

The EM Director or designee will maintain contact with MSP to assure that access control is performed and maintained in accordance with the MSP SOP (Attachment 14).

6.5 Food, Water, Milk, and Livestock Feed Control

When the control and replacement of the above commodities is determined necessary by the Secretary, Department of the Environment the following actions are taken by the EM Director or designee.

6.5.1 Inform the EOC Staff of the decision and direct the appropriate agencies to initiate any required actions.

6.5.2 Provide specific information as reviewed from MDE to the Public Information Officer for use in preparing public information. Read and approve the news release prior to release to other news media.

6.5.3 In coordination with State and local agencies, arrange for the replacement of contaminated commodities.

7.0 PARALLEL ACTIONS

7.1 Emergency Medical Services

The EM Director or designee will maintain communications with the Fire/Rescue/EMS Coordinator to assure that the Emergency Medical Services are maintained.

7.2 Radiation Exposure Control

The EM Director or designee takes the following actions:

7.2.1 Coordinates Radiation Exposure Control functions with the RO so as to insure that the EOC Radiological Monitoring and self-protection equipment are distributed during an emergency.

7.2.2 Makes available to the RO any and all information pertaining to possible health effects on emergency personnel in the plume zone and provides any assistance in decontamination actions.

7.2.3 Assures that the County Health Officer maintains a file of exposure records of emergency personnel and the public sector.

7.2.4 Assures that the RO establishes and performs decontamination procedures.

7.2.5 Assure that contaminated materials are collected and disposed of in accordance with MDE guidelines.

7.3 Law Enforcement

The EM Director or designee assures that the MSP and support law enforcement agencies act in a concerned effort to maintain law and prevent crime in affected areas.

7.4 Mass Care

The EM Director or designee takes the following actions:

7.4.1 Assures that the Social Services and Red Cross are notified to activate mass care centers and that each center is adequately staffed, and stocked.

7.4.2 Maintains a file of all evacuees in order to answer inquires.

7.5 Return

The EM Director or designee takes the following actions:

7.5.1 Considers return announcement from MDE and MEMA, consults with EOC staff, evaluates overall situation, and makes recommendation to Board of County Commissioners for their approval to allow return operations.

7.5.2 Announces to EOC staff that approval to return has been authorized by Board of County Commissioners and directs appropriate agencies to initiate required actions.

7.5.3 Provides specific information to the Public Information Officer for use in preparing public information. Reviews and approve news releases to be read over EAS and to be published in other media.

7.5.4 Notifies MEMA, CCNPP, and contiguous counties of decisions and when return is accomplished.

8.0 PUBLIC INFORMATION

The EM Director or designee takes the following actions:

8.1 Provides the PIO with copies of incoming and outgoing messages.

8.2 Briefs the PIO periodically, or as required, with current information pertaining to EOC operation and CCNPP status.

9.0 TRAINING

9.1 The EM Director or designee coordinates training with MEMA and other organizations for emergency response personnel during the pre-emergency phase.

9.2 The EM Director or designee supervises and expedites training such as radiological monitoring, decontamination and self-protection procedures.

9.3 The EM Director or designee reviews requirements for further training resulting from information gained during exercises and drills.

10.0 EXERCISE/DRILLS

The EM Director or designee assures exercise/drills are conducted in accordance with Annex Q, Plan Testing and Maintenance.

11.0 RECORDS

A record of activities shall be kept during the emergency. A record of man-hours expended and other costs shall be maintained and submitted to the State MEMA Director at the end of the emergency. Receipts will be provided.

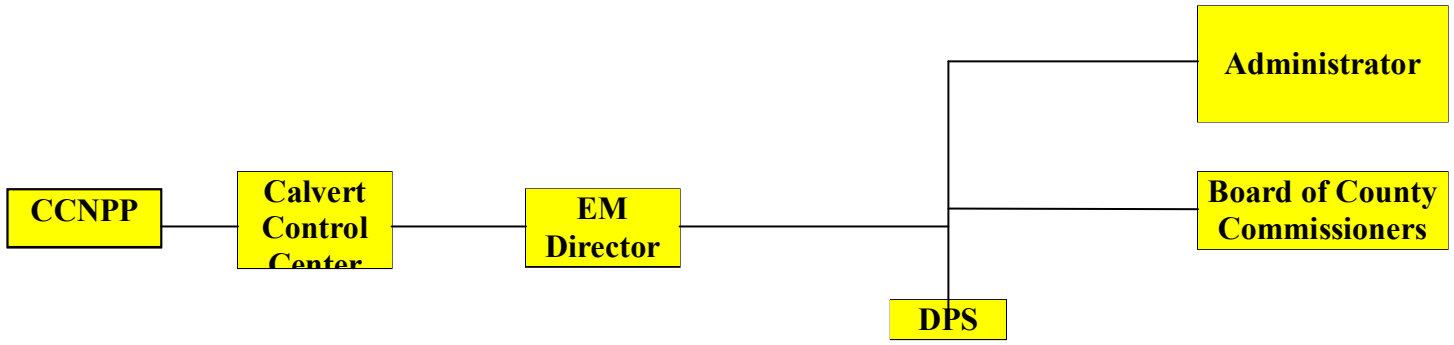
12.0 SOP MAINTENANCE

The EM Director or designee is responsible for maintenance of this SOP on an annual basis, with telephone lists reviewed quarterly.

TAB A

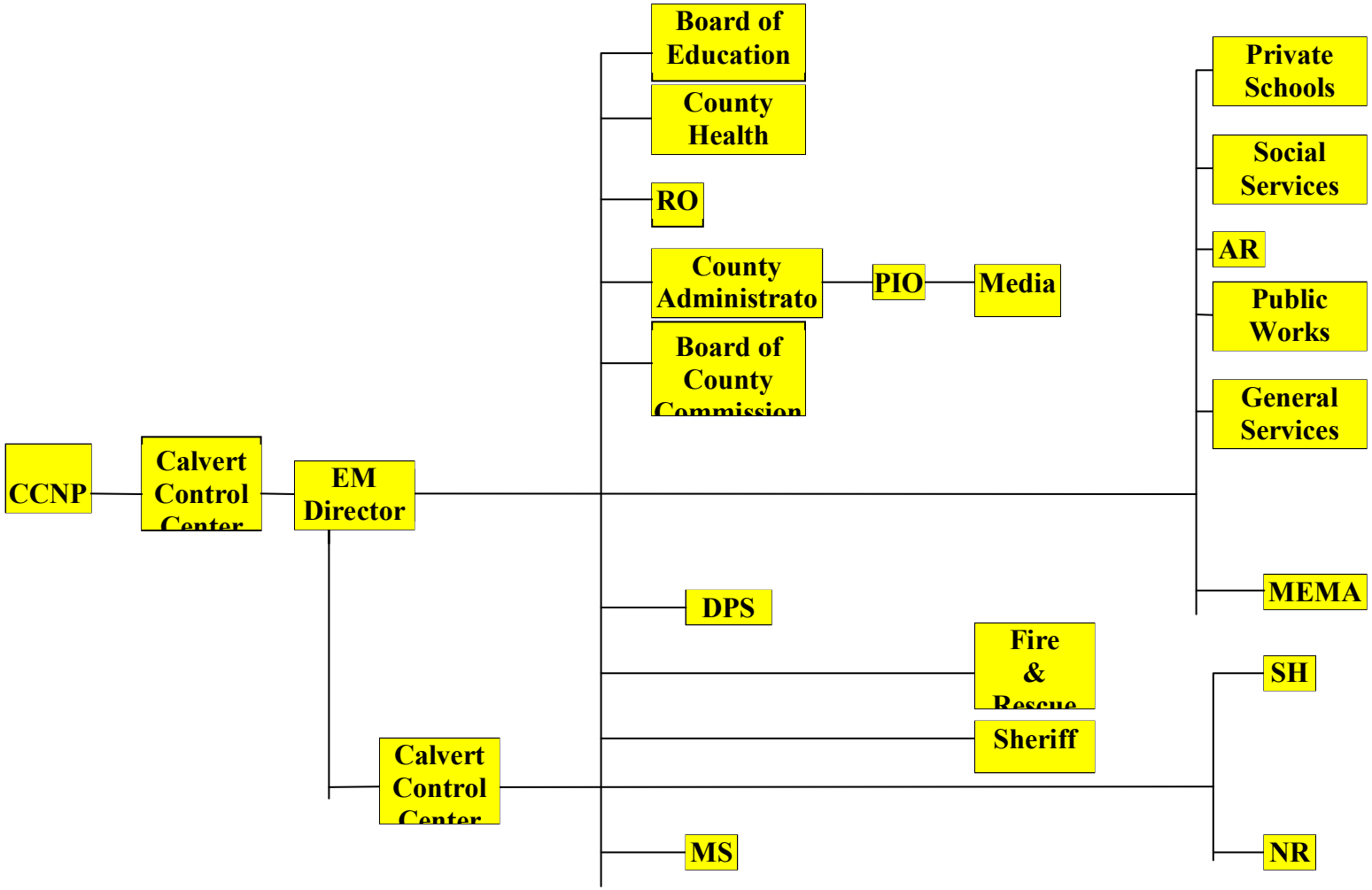
CALVERT COUNTY

UNUSUAL EVENT NOTIFICATION



TAB B

CALVERT COUNTY
ALERT, SITE AREA EMERGENCY OR GENERAL EMERGENCY NOTIFICATION



TAB C
CALVERT CLIFFS INITIAL NOTIFICATION

PROVIDED IN CCNPP ERPIP 3.0 ATTACHMENT 3

ATTACHMENT #3

CALVERT COUNTY

ACCIDENT ASSESSMENT (FIELD MONITORING) STANDARD OPERATING PROCEDURE

1.0 PURPOSE

To establish responsibilities and procedures for accident assessment and for field monitoring of a radioactive plume in Calvert County.

2.0 RESPONSIBILITY

The Calvert County Radiological Officer (RO) is responsible for organization, training, direction and field operation of the county Radiological Monitoring teams. The RO is assisted during 24-hour operations by the Assistant RO.

3.0 CONDITIONS AND PRE-REQUISITES

3.1 Trained personnel will be designated to function as radiological monitors. Each team will consist of two monitors.

3.2 Field monitoring teams will be assigned pre-designated fixed monitoring (survey) points, described in Tab B by the County Radiological Officer (RO).

3.3 Monitoring equipment survey meter, self-reading dosimeters (SRD or EPD) and permanent dosimeters (TLD) will be utilized by monitoring team personnel. See Tab C for detailed equipment listing. All the county radiological equipment is located in the EOC.

3.4 The field monitoring teams will utilize the appropriate procedures as described in Tab D.

3.5 Each field monitoring team will be issued the following equipment before leaving on a mission.

Survey Meters

SRDs,EPDs or equivalents (for each team or team member)

Permanent Dosimeter (TLD) (one for each team member)

Radiation Exposure Record (one for each team member)

Monitoring Forms

Protective Clothing (as required for each team member)

3.6 Each team member will be issued the thyroid radioprotective drug, Potassium Iodide (KI), prior to each mission. Ingest KI only when directed by the County Health Officer , and recorded on the Radiation Exposure Record (Tab E).

4.0 IMPLEMENTATION

This section identifies the preplanned response to each emergency class declared by CCNPP.

4.1 **Unusual Event**

No action required.

4.2 **Alert**

4.2.1 RO and County Health Officer report to the County EOC.

4.2.2 RO notifies field monitoring team personnel to standby.

4.3 **Site Area Emergency**

4.3.1 RO/County Health Officer notifies field monitoring team personnel to report to a designated assembly area. See Tab A.

4.3.2 RO or designee briefs field monitoring team personnel on the situation assigns team missions and dispatches teams as required. (Tab B)

4.3.3 The RO/County Health Officer will evaluate the data reported by the field monitoring teams; post on EOC situation map; and advise the EM Director or designee on the radiological situation in the County.

5.0 COMMUNICATIONS

Communications with the County radiological field monitoring teams are by Fire and Rescue, State Police, Sheriff and/or County Health vehicular radios and/or RACES (amateur radio).

6.0 RECORDS

A record of activities shall be kept during the emergency. A record of man-hours expended and other costs shall be maintained and submitted to the County Emergency Management Specialist at the end of the emergency.

7.0 SOP REVIEW AND UPDATING

The RO is responsible for maintenance of this SOP on an annual basis, with personnel and telephone lists reviewed quarterly or more frequently as changes occur.

TAB A

MONITOR TEAM ASSEMBLY AREAS

1.0 Maryland State Police Barrack "U", Rt. 765, Prince Frederick.

1.1 Maryland State Police & Sheriff's Department.

2.0 Prince Frederick Volunteer Fire Department, Company 2, Routes 2 and 4, Prince Frederick, Maryland

2.1 Fire and Rescue personnel, North of CCNPP.

3.0 Solomon's Volunteer Rescue and Fire Department, Company 3, Routes 2 and 4 Solomon's, Maryland

3.1 Fire and Rescue personnel, South of CCNPP.

4.0 Hall - Old EOC - Courthouse, 175 Main Street, Prince Frederick, MD.

4.1 Calvert County Health, Environmental Personnel.

4.2 County Personnel; County Roads, General Services, Solid Waste Division.

TAB B

SURVEY POINTS

NOTE: For better description and photographs of survey points refer to the separate document entitled, "Radiological Monitoring Points for Calvert Cliffs Nuclear Power Plant", July, 1991. This document is available from the County Emergency Management Director.

POINT	DIST. (mi.)	ZONE	LOCATION	MDE#
1	2	Q-NW	PARKING LOT & ENTRANCE TO LONG BEACH, AT LONG BEACH HARBOR, AT END OF FLAG HARBOR BLVD.	C-13F12
3	1	1	ON POWER LINES ACCESS ROAD WHICH BEGINS 1/4 MILE NORTH OF INTERSECTION OF PLANT ACCESS ROAD AND RTES 2&4. SURVEY POINT LOCATED UNDER POWER LINES 2/3 MILE DOWN ROAD.	C-16H4
4	2		DIRT ROAD, 3 MILES DWON LONG BEACH ROAD, ON RIGHT AT BOTTOM OF HILL.	C-16E1
5	3		INTERSECTION OF LONG BEACH ROAD & FLAG HARBOR BLVD.	C-13D13
6	3		INTERSECTION OF ROUTE 765 & OLD PARRAN ROAD. 1/2 MILE NORTH OF INTERSECTION OF ROUTES 2/4 & 765.	C-16B1
7	4		H.B. TRUEMANS LUMBER CO. PARKING LOT. IN ST. LEONARD.	C-13A11
8	5		INTERSECTION WESTERN SHORES BLVD. & MILES WAY RD. ABOUT 1/2 MILE OFF ROUTE 765 ON RIGHT.	C-13A8
9	4		OLD"TOMMIES" CRAB HOUSE PARKING LOT 1/2 MILE NORTH ST. LEONARD, ON ROUTE 765. RIGHT SIDE	C-12K9
10	1	1	SAWMILL RD AND 765 ABOUT 1/2 MILE NORTH OF THE PLANT ACCESS ROAD, ON LEFT.	C-16D4
11	2	1	INTERSECTION OF ROUTES 2/4 & 765, LOCATED ON THE NORTH SIDE OF THE "BIG" HILL ABOUT 1 1/2 MILES NORTH OF THE PLANT ACROSS ROAD.	C-16D2

TAB B

SURVEY POINTS (cont.)

POINT	DIST. (mi.)	ZONE	LOCATION	MDE#
13	3	P-WNW	UNDER POWER LINES, ABOUT 1/2 MILE IN ON PARRAN ROAD OFF ROUTES 2/4.	C-16A2
14	4	N-W	INTERSECTION OF PARRAN ROAD & MACKALL ROAD.2 MILES IN OFF ROUTES 2/4.	C-15J4
15	1	1	INTERSECTION OF ROUTES 2/4 AND PLANT ACCESS ROAD	C-16G5
16	2	M-WSW	"WHITE SANDS" YACHT CLUB PARKING LOT, AT ENT OF WHITE SANDS ROAD	C-16D7
17	4	M-WSW	INTERSECTION OF MACKALL ROAD & CAPE ROAD.1.2 MILE SOUTH OF PARRAN & MACKALL ROAD INTERSECTION.	C-15J5
18	3	M-WSW	INTERSECTION OF MACKALL ROAD & GARRITY ROAD, 2 MILES SOUTH OF PARRAN-MACKALL ROAD INTERSECTION.	C-16A8
19	1	M-WSW	"DUNKIRK SUPPLY" INC. PARKING LOT1/2 MILE SOUTH OF PLANT ACCESS ROAD, ON LEFT, ON ROUTE 765.	C-16G6
20	3	M-WSW	INTERSECTION OF MACKALL ROAD & ENTRANCE TO "CAPE LEONARD". 3 MILES SOUTH OF PARRAN, MACKALL ROAD INTERSECTION.	C-16A10
21	4	L-SW	END OF MACKALL ROAD, AT ST. LEONARD CREEK DIRECTLY ACROSS THE CREEK FROM SURVEY POINT #24.	C-16B12
22	1	1	INTERSECTION OF ROUTE 765 & SOLLARS ROAD. IN PARKING LOT OF "PARDOES" STORE.	C-16H9
23	3	K-SSW	INTERSECTION OF SOLLARS ROAD AND MILL BRIDGE ROAD 2 MILES SOUTH OF ROUTES 2/4 SOLLARS ROAD INTERSECTION.	C-16F13

TAB B

SURVEY POINTS (cont.)

POINT	DIST. (mi.)	ZONE	LOCATION	MDE#
24	4	L-SW	BOAT HOUSE (DESTROYED) AT END OF SOLLARS ROAD AT ST. LEONARD CREEK. ACROSS THE CREEK FROM POINT #21.	C-16C13
25	1	K-SSW	"SMITH'S GENERAL STORE & MOBILE STATION PARKING LOT. ON ROUTE 765, 2 MILES SOUTH OF PLANT ACCESS ROAD.	C-16J9
26	3	K-SSW	INTERSECTION OF SOLLARS ROAD & MCQUEEN ROAD 1 1/2 MILE DOWN SOLLARS ROAD	C-15G12
27	3	K-SSW	INTERSECTION OF MILL BRIDGE ROAD & TURBIN ROAD 1/2 MILE FROM SOLLARS ROAD & MILL ROAD INTERSECTION.	C-18G2
28	4	J-S	INTERSECTION OF COSTER ROAD & ROUTES2/4 5 1/2 MILES SOUTH OF PLANT ACCESS ROAD.	C-18K4
29	2	J-S	INTERSECTION OF ROUTE 765 AND CAMP CANOY ROAD 2 3/4 MILES SOUTH OF PLANT ACCESS ROAD JUST PAST POST OFFICE ON LEFT.	C-17A11
30	2	J-S	"MIDDLEHAM CHAPEL" ON ROUTE 765, 3 MILES SOUTH OF PLANT ON LEFT.	C-17A11
31	3	J-S	INTERSECTION OF ROUTE 765 AND COVE POINT ROAD 4 MILES SOUTH OF PLANT ACCESS ROAD. IN FRONT OF "ST. PAUL'S METHODIST CHURCH."	C-17B13
32	0	G-SE	"AIR SAMPLING" STATION I CAMP CANOY. TURN LEFT AFTER POOL, BEAR LEFT TO DEAD END.	C-17B6
33	0	G-SE	"FENCE" TO ENTRANCE TO CAMP CANOY BEACH. TURN RIGHT PAST POOL, THEN LEFT TO DEAD END.	C-17B6

TAB B

SURVEY POINTS (cont.)

POINT	DIST. (mi.)	ZONE	LOCATION	MDE#
34	3	H-SSE	INTERSECTION OF COVE POINT ROAD AND LITTE COVE POINT ROAD 1 MILE DOWN COVE POINT ROAD.	C-19E1
35	4	H-SSE	INTERSECTION COVE POINT ROAD AND COVE LAKE ROAD. 2 MILES OF ROUTE 2/4.	C-19G2
36	4	G-SE	END OF COVE POINT ROAD AT ENTRANCE TO "COAST GUARD" STATION.	C-19J1
48	9	R-NNW	ON ROUTE 402, NEAR INTERSECTION WITH GOLDSTEIN ROAD, NORTH SIDE ROAD, BG&E SIREN NO. 6.	C-10H9
49	7	Q-NW	ON ROUTE 2/4, NEAR RUSTIC FARMS RESTAURANT, EAST SIDE ROAD, BG&E SIREN NO. 3.	C-12D5
50	7	Q-NW	INTERSECTION DARLIA ROAD & DOVE TREE LANE, SW CORNER, BG&E SIREN NO. 5.	C-12J2
51	8	P-WNW	ON GRAYS MUTUAL ROAD, NORTH SIDE ROAD BG&E SIREN NO. 18.	C-11J8
52	5	P-WNW	ON MACKALL ROAD, NEAR WATERS CHURCH RECTORY, SOUTH SIDE ROAD, BG&E SIREN NO. 21.	C-12E13
53	6	N-W	INTERSECTION WILLIAMS WHARF ROAD AND BROOMES ISLAND ROAD, SE CORNER, BG&E SIREN NO. 16	C-15B2
54	5	M-WSW	ON BOWEN ROAD, EAST SIDE ROAD, BG&E SIREN NO. 15	C-15F9

TAB B

SURVEY POINTS (cont.)

POINT	DIST. (mi.)	ZONE	LOCATION	MDE#
* 55	6	J-S	SOLOMONS VOLUNTEER FIRE DEPARTMENT, BG&E SIREN NO. 53.	C-18H7
* 56	6	J-S	ON ROUSBY HALL ROAD, 200' NORTH DRUM PT. ENTRANCE, WEST SIDE ROAD, BG&E SIREN NO. 56.	C-19B10
* 57	1	H-SSE	INTERSECTION QURIE LANE AND CAMP CANOY ROAD, SE CORNER, BG&E SIREN NO. 33	C-17B8
58	4	H-SSE	INTERSECTION LOS ALAMOS AND DEADWOOD DRIVE CHESAPEAKE RANCH CLUB (CRC), APPROXIMATELY 1 MILE NW FROM CRC AIRPORT.	C-19D4
* 59	5	H-SSE	ON SAN MATEO TRAIL, 100' WEST OF GOLDEN WESTWAY, CHESAPEAKE RANCH CLUB, BG&E SIREN NO. 57.	C-19E6

* NO PHOTOGRAPH AVAILABLE FOR SURVEY POINT.

TAB C

RADIOLOGICAL EQUIPMENT

Nomenclature		Quantity
CDV-Kits	Instrument sets consisting of	12 sets
	CDV-700 Survey Meter	1 each
	CDV-715 Survey Meter	1 each
	0-20R Dosimeter	2 each
	CDV-750 Charger	1 each
Portal Monitor		2 each
Inspector EXP		4
Eberline, Model E-520 Survey Meter with hand probe HP 270*		4
Eberline, Model PIC-6B, ion chamber Survey Meter		4
Rad-60 Electronic Dosimetery		99
0-200 mR Dosimeters		75 each

TAB D

FIELD MONITORING PROCEDURES

1.0 OBJECTIVE

The purpose of this section is to describe field measurement for determining the extent of any potential off-site radiological consequences resulting from releases of radioactivity occurring during emergency conditions at a nuclear power plant.

2.0 DISCUSSION

Survey and analytical methods presented herein provide for the collection of measured data to augment:

2.1 Correlation of projected releases with actual field measured data.

2.2 Monitoring of plume and ingestion pathways to determine what protection actions are necessary to protect the population-at-risk.

3.0 GENERAL

3.1 Obtain and check operation of the field monitoring equipment. All field monitoring data must be recorded on the attached Monitoring Form.

3.2 The following equipment is required for each field monitoring team:

3.2.1 Eberline E-520 with HP-270 G.M. Detector or PIC-6 or equivalents. If not available, the CDV-777-1R instrument sets may be used.

3.2.2 Self Reading Dosimeters.

3.2.3 Permanent Dosimeters (TLD).

3.2.4 Radiation Exposure and KI Record Form.

3.2.5 Protective clothing (coveralls, gloves, boots, and tape) if required.

3.3 Obtain Potassium Iodide (KI) for use as directed by the County Health Officer.

3.4 Communication equipment (i.e. radio in vehicle). Establish communications with the County Emergency Communications Center prior to departure to ensure radios are operational. Report Team arrival at the pre-designated survey point. Report any readings (including negative readings) to the RO via available communications.

- NOTE -

(Plume Dispersion Dynamics)
Radioactivity release(s) from a plant can travel no faster than the wind carrying it, so consideration must be given to assure the monitoring locations are arrived at the proper times. If the release is accompanied by a large heat release, the plume may rise, disperse and settle unpredictably. Also, it is likely that wind direction will meander rather then be straight. With these characteristics in mind, the monitoring team(s) should monitor throughout the routes searching out the maximum Exposure rate/concentration.

4.0 PROCEDURES FOR CONDUCTING GAMMA RADIATION EXPOSURE RATE MONITORING

- NOTE -

Use E-520/HP-270 or PIC-6 instrument or equivalent up to 200 mR/hr if available. If not use CDV-777-1R instrument kit. Above 200 mR/hr use the CDV-700 or equivalent.

4.1 Use the Survey Point Maps with the pre-designated survey points to locate areas to be surveyed.

4.2 Vehicular Survey

4.2.1 If roadway vehicle is used, drive to the locations to be surveyed and initiate survey.

- NOTE -

Continuously observe readings on survey meters while in route to pre-selected survey locations. Meters should be kept on legs while in route, with speaker on and beta shield closed. At point of highest reading or at the pre-selected monitoring site, take reading outside of vehicle at waist level. Record open window and closed window readings on Survey Point Dose Rate form, TAB D.

- Note-
CCNPP field teams will be taking plume centerline measurements. If this information is not available for the utility then proceed with center line monitoring

To find maximum exposure rate (plume center line) take measurements by slowly driving through the area. At the point of maximum reading, stop vehicle, exit, and take reading with probe at waist level.

To survey for ground deposition, record O.W. and C.W. readings three inches above ground level. Specify ground level readings on survey form.

Record the highest reading obtained within about a mile of the pre-selected monitoring point. Record the data on Monitoring Form.

Communicate data to the County EOC via communications center and/or telephone hotline (number to be assigned). Repeat this procedure in each of the areas to be monitored. If in the course of travel to the pre-selected

survey point a reading is noted which is higher than those found in the pre-selected monitoring locations, communicate it to the Accident Assessment Center (AAC) before proceeding with any other task.

TAB D

SURVEY POINT DOSE RATE FORM

SURVEY NAME _____

OCCUPATION _____

SURVEY INSTRUMENT USED _____

INSTRUMENT S/N _____ DATE _____

Indicate 3' readings (waist level) or 3" readings (ground deposition) at each monitoring location

MONITORING LOCATION DESIGNATION	TIME OF SURVEY	MEASURED DOSE RATE (mrem/h)		NOTIFIED INITIALS/TIME
		Open Window	Closed Window	

ATTACHMENT #4

RADIATION EXPOSURE CONTROL STANDARD OPERATING PROCEDURES

Attachment 4-1	Emergency Personnel Exposure Control Procedures
Attachment 4-2	Personnel Decontamination Monitoring Procedures
Attachment 4-3	Radiological Personnel Decontamination Procedures
Attachment 4-4	Decontamination of Equipment Procedures
Attachment 4-5	Administration of Radioprotective Drugs

EMERGENCY PERSONNEL EXPOSURE CONTROL

1.0 RESPONSIBLE INDIVIDUAL

The County RO or his designee is responsible for:

1.1 Briefing emergency personnel on exposure limits.

1.2 Informing emergency personnel entering known or potential radiation areas of possible health effects of such actions.

1.3 Distributing appropriate dosimetry to emergency personnel.

1.4 Insuring accurate exposure records are maintained by emergency personnel.

1.5 Reviewing and revising the SOP at a minimum of once annually.

2.0 CONDITIONS AND PREREQUISITES

Know expected radiation fields prior to dispatching personnel.

3.0 ACTIONS AND LIMITATIONS

3.1 Inform emergency personnel of the following exposure guidelines:

3.1.1 Emergency worker planned exposure should be maintained within 1 rem.

The County Health Officer must approve 3.1.2 Planned exposures above 1 rem.

3.1.3 Control exposure of emergency team members to 5 rem (CEDE) whole body except for lifesaving missions.

3.2 Brief personnel to be engaged in lifesaving actions in a radiation area to the following:

3.2.1 In emergency situations that require personnel to search for and remove injured persons, or to prevent conditions that would probably injure personnel a planned dose shall not exceed 25 rem to the whole body.

3.3 Administration of Radioprotective Drugs

When directed by the County Health Officer or when projected dose to thyroid exceed 10 rem CDE a thyroid-blocking agent will be administered to all emergency personnel such as police officers, firemen, physicians, nurses, ambulance drivers, paramedical personnel, and radiation monitors before entering the plume zone.

3.4 Brief personnel on probable high radiation exposure effects including the following:

3.4.1 **25 rem whole body in 1 day** - no physiological changes are likely to be observed.

3.4.2 **25 to 100 rem whole body** - no impairment likely but some physiological changes, including possible temporary blood changes may occur. Medical observations should be required after exposure.

3.4.3 **150 to 400 rem whole body** - some physical impairment possible. Some lethal exposures possible.

- CAUTION -
ONLY THE COUNTY HEALTH OFFICER CAN AUTHORIZE EMERGENCY WORKERS TO RECEIVE DOSES IN EXCESS OF THOSE IN SECTION 3.1.

3.5 If anticipated exposure is in excess of those given in Step 3.1:

3.5.1 Women capable of reproduction shall not take part.

3.5.2 Other things being equal, volunteers above the age of 45 should be selected whenever possible for the purpose of avoiding unnecessary somatic effects.

3.5.3 Internal exposure should be minimized by the use of the best available respiratory protection and contamination should be controlled by the use of protective clothing.

3.5.4 Exposures under the conditions of Steps 3.1 and 3.2 shall be limited to once in a lifetime.

3.5.5 Persons receiving radiation doses at or near maximums as listed in Step 3.2 should avoid procreation for a few months.

3.6 Personnel dosimetry will be issued at reception centers as follows:

3.6.1 Issue emergency workers who may be called upon to perform lifesaving actions one EPD or one 0-20R self-reading dosimeter, one 0-200-R self-reading dosimeter , TLD and a dosimetry-KI report form.

3.6.2 Issue emergency workers who may be called upon to receive exposures approaching the 25-rem exposure limit one EPD or one 0-20R and / or 0-100R or one 0-200-R self-reading dosimeter OR EPDs, a TLD, and a dosimeter-KI report form.

- NOTE -
Verify that SRDs are reading zero at time of issue.

3.6.3 Dosimeters are to be worn in the pocket of an outer garment form the time of issue until the worker is dismissed from duty or when the RO says dosimetry is no longer necessary. In no case should the TLD be worn by more than one person since there is no way of ascertaining later how much of the dose recorded on the TLD was received by each individual if more than one person was involved.

3.6.4 For practical purposes each Roentgen registered on either of the self-reading dosimeters is to be interpreted to mean that the worker has received a corresponding number of rem, e.g., a reading of 5 R should be interpreted to mean that a 5 rem dose has been received. However the SRD will not account for inhalation dose received (CEDE) therefore an administrative limit of 1 rem has been established for Calvert County Emergency Worker.

3.6.5 Each emergency worker should read the self-reading dosimeters **about once every thirty minutes**. The protective action guide for whole body exposure for Emergency Worker including inhalation dose (CEDE), is EPA 5 rem. Therefore an emergency worker should seek to be replaced or complete the assigned task and then evacuate to a decontamination station for personnel decontaminating monitoring when receiving 1 Rem. For example, a worker dosimeter readings indicate that he/she has received 1 R in the last thirty minutes had best take immediate action (i.e., seek replacement or complete the mission and then leave the area) whereas another worker who has steadily accumulated 1 R over three days has a lesser degree of urgency. Emergency workers and supervisors are cautioned that the 5 rem protective action guide is not to be construed to be a "license" to incur radiation exposure unnecessarily. Workers and supervisors should always attempt to keep exposure to a minimum; further, one individual should not receive a total dose far in excess of other emergency workers if circumstances permit substitution of personnel, termination of the assignment, or other protective action.

3.6.6 The primary reason for issuing these two self-reading dosimeters in lifesaving situations is to provide redundancy and a wide range of measurement. Workers should heed the higher measurement taken from the two dosimeters. MDE will ascertain whether or not a dosimeter was faulty, and until this is done the assumption will be that the worker has received the higher reading.

3.7 Dosimetry and KI Record Keeping

3.7.1 Each emergency worker is responsible for completing a Dosimetry-KI Report Form (see Tab A) and for returning the Form, along with the dosimetry, at the termination of his services. Each emergency organization shall pass the Form and TLD dosimeters to the RO. All dosimetry records will be forwarded to the County Health Officer for the purpose of record keeping, analysis and reporting.

3.7.2 The County Health Officer will retain all original copies and will be the permanent record keeper of the completed Dosimetry-KI Report Forms. The records of individuals are to be kept confidential. County Emergency Management will maintain records.

3.7.3 CCNPP personnel will collect TLDs for lab evaluation and results will be provided to the County Health Officer.

TAB A

RADIATION EXPOSURE RECORD
DOSIMETRY -KI REPORT FORM

PLEASE PRINT LEGIBLY

EMERGENCY WORKER'S NAME:_____ SOCIAL SECURITY NUMBER:_____

HOME ADDRESS:_____EMERGENCY WORKER'S ORG:_____

_____ EMERGENCY WORKER'S SIG:_____

CALVERT COUNTY:_____

LOCATION	Low Range 0-200 mR OR 0-500 mR			RAD 60 Electronic			High Range 0-20R OR 0-100R, 0-200R			TLD
SITE #	SER#	BEFORE AFTER	MISSION TOTAL	SER#	BEFORE AFTER	MISSION TOTAL	SER#	BEFORE AFTER	MISSION TOTAL	SER#
1		mR mR	mR		R R	R		R R	R	ISSUED BY:
2		mR mR	mR		R R	R		R R	R	DATE:
3		mR mR	mR		R R	R		R R	R	
4		mR mR	mR		R R	R		R R	R	

DOSIMETRY INSTRUCTIONS: READ THE DRD EACH HALF HOUR. DO NOT EXCEED 1 R CUMULATIVE TOTAL. WHEN YOU REACH 1 R, PLEASE NOTIFY YOUR SUPERVISOR FOR INSTRUCTIONS. THE TLD GIVES AN ACCURATE READING OF TOTAL DOSE AND SHOULD BE USED BY ONLY ONE PERSON. FORWARD THE TLD WITH THIS FORM.

DOSIMETRY - KI FORM DISTRIBUTION: FORWARD THIS COMPLETED FORM WITH THE TLD THROUGH EMERGENCY MANAGEMENT CHANNELS. WHEN THE DIRECT-READING DOSIMETRY INDICATES TOTAL EXPOSURE OF 1 R OR MORE EXPEDITE DELIVERY. CCNPP WILL FORWARD TO THE INDIVIDUAL AND TO THE COUNTY EMA, THE TLD READING AS WELL AS AN EXPLANATION OF THE READING.

POTASSIUM IODIDE (KI) RECORD:

AMOUNT: _____ TIME: _____ DATE: _____

KI INSTRUCTIONS: TAKE KI ONLY ON THE DIRECTION OF THE HEALTH DEPARTMENT DIRECTOR. TAKE ONE TABLET (130 MG) ONCE A DAY. IF YOU HAVE ANY ADVERSE REACTION TO THE DRUG, DISCONTINUE USE OF KI AND REPORT TO YOUR SUPERVISOR.

DECONTAMINATION SCREENING: UPON COMPLETION OF YOUR MISSION, OR AS DIRECTED, EACH EMERGENCY WORKER IS TO UNDERGO "DECONTAMINATION MONITORING" AT A DECONTAMINATION MONITORING STATION OR A MASS CARE/DECONTAMINATION CENTER.

SCREENING RESULTS_____ Mr/hr, MONITORS SIGNATURE_____

TAB B

DOSIMETRY ISSUE LOG

COLUMN I												
ISSUE ON ENTRY							RECORD ON RETURNING					
TLD #	DATE	TIME		SRD	SRD	NAME (PRINT	DATE		TIME	SRD		

TAB C

FIELD MONITORING TEAM EQUIPEMNT ISSUE

I _____ of _____
(Name) (Department)

have received the following from the Calvert County Division of Emergency Management
_____ at _____.
_____(Date)_____(Time)

_____TLDs _____ -Dosimeters

_____ SRD MODEL # _____ - Dosimeters

_____ _____ _____- Dosimeters

_____ - Electronic Dosimeter

_____Dosimeter Charger

_____Potassium Iodide Tablets

_____Radiac Radiation Detector _____ _____
(Serial) (Serial)

_____Radiac Radiation Detector _____ _____
(Serial) (Serial)

PERSONNEL CONTAMINATION MONITORING PROCEDURES

1.0 RESPONSIBILITY

The County radiological monitors that are assigned to the County designated reception centers are responsible for contamination monitoring of personnel and equipment. A record of the contamination surveys will be maintained for each individual.

1.1 Contamination monitoring is the process of checking a person or object with a survey meter to ascertain if the person or object is contaminated with a radioactive substance.

2.0 GENERAL INFORMATION AND ORGANIZATION

2.1 The public will be directed to a reception center where each person will be monitored for radiological contamination (only if a contaminating episode has occurred.) Each person shall be monitored upon arrival. Persons that are not contaminated shall have their hand stamped with an appropriate marking or provided some form of documentation indicating monitoring has been completed.

2.2 Personnel monitoring teams will structure the situation so as not to allow contaminated persons and persons not yet monitored to mix with the contamination-free individuals who are already admitted to the "general living" portion of the Assembly Area. For example, those persons found to be contaminated will be directed to the decontamination area (showers) by a route that will not place them in contact with contamination-free area; showers used for decontamination will not be used for general use unless they are decontaminated.

2.3 The instruments used for this personnel monitoring will have an approximate range: of 0.0 to 50 mR/hr or a scale in counts-per-minute (cpm), and a portal walk-thru monitor.

2.4 Radiation monitoring personnel will be responsible for completing a "Personnel Radiological Monitoring Report Form" (See Tab A) for each individual with a reading of 0.1 mR/h or 300 cpm above background or more. The form is to be completed, signed by the monitor at each of the steps (initial monitoring, after first decontamination, after second decontamination, medical referral) in that sequence. Two copies of the form will be produced, one of which will be given to the individual when decontamination is completed or the individual is sent to a medical facility. The other copy will be retained by the County Health Officer.

2.5 Persons who do not intend to stay at a Mass Care Center but who wish to be monitored are to be extended these services at the Reception Center.

2.6 Reception Center Managers are responsible for reporting to the County Emergency Management pertinent information on the results of monitoring. Such information shall include the following cumulative data: number of persons monitored; number of persons found to be contaminated; number of persons decontaminated; number of persons referred to a medical facility (for radiation decontamination/treatment; the highest reading (above 0.1 mR/h or 300 cpm) on any particular individual; any unusual or particularly notable findings. The County Emergency Management is responsible for consolidating this information and reporting it to Maryland Emergency Management Agency.

- NOTE -
When using Portable Walk-thru monitor, go to Tab E.

3.1 Monitors performing radiological monitoring of people should follow these steps.

3.1.1 Check the operability of the instrument

3.1.1.1 Install batteries in instrument as per Instruction and Maintenance Manual.

3.1.1.2 Perform source check to verify that instrument responds to a radiation source.

3.1.1.3 The instrument detector is housed in nickel plated cylinder with a spring loaded window, which is opened to admit beta radiation.

3.1.1.4 Use open window readings when performing radiation/contamination surveys.

3.1.2 Turn on the speaker or attach the headphone because this allows the monitor to observe the position of the probe and better control it while monitoring. The audible responds more quickly to changes in radiation level than the meter.

3.1.3 Place the probe in a light plastic bag, or cover of light-weight material, to prevent contamination.

3.1.4 Select a reception location for conducting the monitoring operation. Precautions must be taken to prevent contamination of the area.

3.1.5 Periodically determine the background radiation level of the location where the monitoring is to take place. If the meter indication is above background radiation with the probe shield closed, find a better location that will bring the meter indication as low as possible. This might be done by selecting a different location.

3.1.6 Open the shield on the instrument if applicable.

3.1.7 Have person stand with arms and legs apart.

3.1.8 Place the probe about 1 to 2 inches from the head, being careful not to touch the person.

3.1.9 Move the probe downward on one side of the neck, the collar, the shoulder, arm, wrist, hand, underarm, armpit, side of body, side of leg, around the cuff, and shoe, including the bottom of the shoe. Then monitor inside of the leg from the cuff to the groin and continue the procedure on the other side of the body. (See Tab B).

- NOTE -
Pay particular attention to face, hands, and feet (shoes).

3.1.10 Monitor the front and back of the body.

3.1.11 Record the information on the Personnel Radiological Monitoring Report Form (See Tab A).

3.1.12 Assure that individuals found to be contaminated are decontaminated. [1] Refer to Personnel Decontamination Procedures.

3.1.13 Monitor the individual after decontamination to determine that the contamination has been removed. Repeat decontamination procedures if contamination still remains.

3.2 **Thyroid Gland Screening Check**

3.2.1 In addition to the steps outlined in 3.1 immediately above, emergency workers are to be screened for thyroid gland uptake of radioiodine.

3.2.2 The thyroid uptake screening procedure follows:

3.2.2.1 The CD V-700 or equivalent is to be used as the screening detector for thyroid uptake of radioiodine.

CAUTION: The individual being checked must be free of any contamination before this procedure is to be implemented.

3.2.2.2 Monitors performing the thyroid screening uptake procedure should follow the steps:

3.2.2.2.1 Check the operability of the CD V-700

3.2.2.2.2 Ask the person being screened for his/her copy of the Dosimetry-KI Report Form (emergency workers should have this form in their possession).

3.2.2.2.3 If necessary check the person for external contamination following the Personnel Decontaminating Monitoring Procedures.

3.2.2.2.4 Put the probe with the shield closed across the front of the neck just below the larynx (Adam's Apple). See TAB D.

[1] A person is considered CONTAMINATED if there is a reading of 0.1 mR/hr or 300 cpm above background or more. Do not confuse background radiation with your readings; contamination would be apparent by a sustained increase on the visual meter reading, and also by a marked increase in the audible indication from the headphone. The audio response makes it possible to practically pinpoint any "hot spots" on the individual.

3.2.2.2.5 If the reading is greater than or equal to 0.1 mR/hr, refer the individual to the appropriate medical facility for evaluation.

3.2.2.2.6 If the reading is less than 0.1 mR/hr, no further action is necessary.

3.2.2.2.7 Record the data on the Dosimetry-KI Report Form and sign in the appropriate place.

3.3 Monitors performing radiological monitoring of vehicles and equipment should follow these steps:

3.3.1 Vehicles and equipment are considered contaminated when a reading of 0.1mR/hr or 300 cpm above background is detected. .

3.3.2 Determine background count rate as follows:

3.2.2.1 Hold the probe away from possible sources of radiation.

3.2.2.2 Read the "background reading " from the lower scale of the instrument.

3.2.2.3 Record the background reading on Tab C Equipment Contamination Survey Sheet.

3.3.3 Hold the probe with shield open one inch from the item to be surveyed. Scan the object with the probe while watching meter response.

3.3.4 Survey the areas that are most likely to have come in contact with radioactive contamination, i.e., tires, wheel wells, door handles, air intakes, steering wheel and drivers floor boards and other areas where contamination would likely occur. If contamination is found on any of these areas then check the entire vehicle

3.3.5 It may be necessary to change instrument range selector performing surveys on highly contaminated equipment. Meter reading must be multiplied by range selection to obtain correct measurements.

3.3.6 If contamination levels are found in excess of 0.1 mR/hr or 300 cpm, decontamination is required. (Refer to Decontamination Procedures).

3.3.7 Record all survey results on Tab C, Equipment Contamination Survey Sheet.

TAB A

PERSONNEL DECONTAMINATION MONITORING REPORT FORM

(Page 1 of 2)

NAME of person monitored _____

_____

ADDRESS _____

FIRST Radiological Monitoring

Monitor's Signature X _____

Mass Care Center _____

Survey Meter Serial # _____ Date _____ Time _____

SECOND Radiological Monitoring - to be completed after person has undergone decontamination proceedings including acquiring radiological "clean" clothing.

Monitor's Signature X _____

Mass Care Center _____

Survey Meter Serial # _____ Date _____ Time _____

THIRD Radiological Monitoring - to be completed after person has undergone decontamination proceedings a second time.

Monitor's Signature X _____

Mass Care Center _____

Survey Meter Serial # _____ Date _____ Time _____

NOTE: The action level for decontaminating is 0.1 mR/hr (sustained increase on the visual meter reading and an increase in the audible indication in the headphone).

TAB A

PERSONAL DECONTAMINATION MONITORING REPORT FORM

(Page 2 of 2)

ANATOMY	FIRST MONITORING	SECOND MONITORING	THIRD MONITORING
head	mR/hr	mR/hr	mR/hr
face	mR/hr	mR/hr	mR/hr
neck	mR/hr	mR/hr	mR/hr
rt. shoulder	mR/hr	mR/hr	mR/hr
rt. arm	mR/hr	mR/hr	mR/hr
rt. hand	mR/hr	mR/hr	mR/hr
rt. side	mR/hr	mR/hr	mR/hr
rt. outside leg	mR/hr	mR/hr	mR/hr
rt. foot	mR/hr	mR/hr	mR/hr
rt. inside leg	mR/hr	mR/hr	mR/hr
groin	mR/hr	mR/hr	mR/hr
lt. inside leg	mR/hr	mR/hr	mR/hr
lt. foot	mR/hr	mR/hr	mR/hr
lt. outside leg	mR/hr	mR/hr	mR/hr
lt. side	mR/hr	mR/hr	mR/hr
lt. hand	mR/hr	mR/hr	mR/hr
lt. arm	mR/hr	mR/hr	mR/hr
lt. shoulder	mR/hr	mR/hr	mR/hr
chest	mR/hr	mR/hr	mR/hr
stomach	mR/hr	mR/hr	mR/hr
back	mR/hr	mR/hr	mR/hr
buttocks	mR/hr	mR/hr	mR/hr

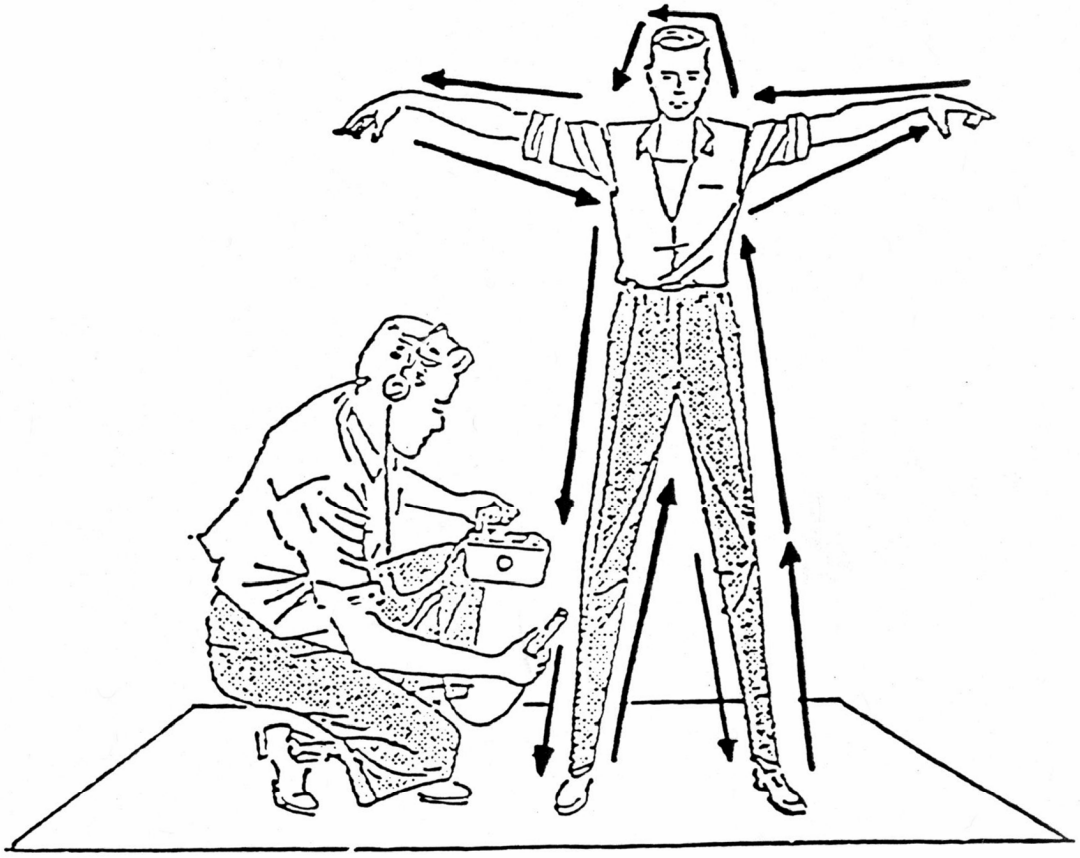
Medical Referral - subject individual sent to _____ hospital for decontamination and/or treatment at (time/am/pm) _____ on (date) _____.

Decontamination Chief's Signature X _____

Form distribution: Original to County Emergency Management Agency; copy to person monitored.

TAB B

ILLUSTRATION - PERSONNEL MONITORING



PERSONNEL MONITORING

TAB C

EQUIPMENT CONTAMINATION SURVEY DATA SHEET

NAME: _____

ADDRESS: _____

ITEM SURVEYED: _____

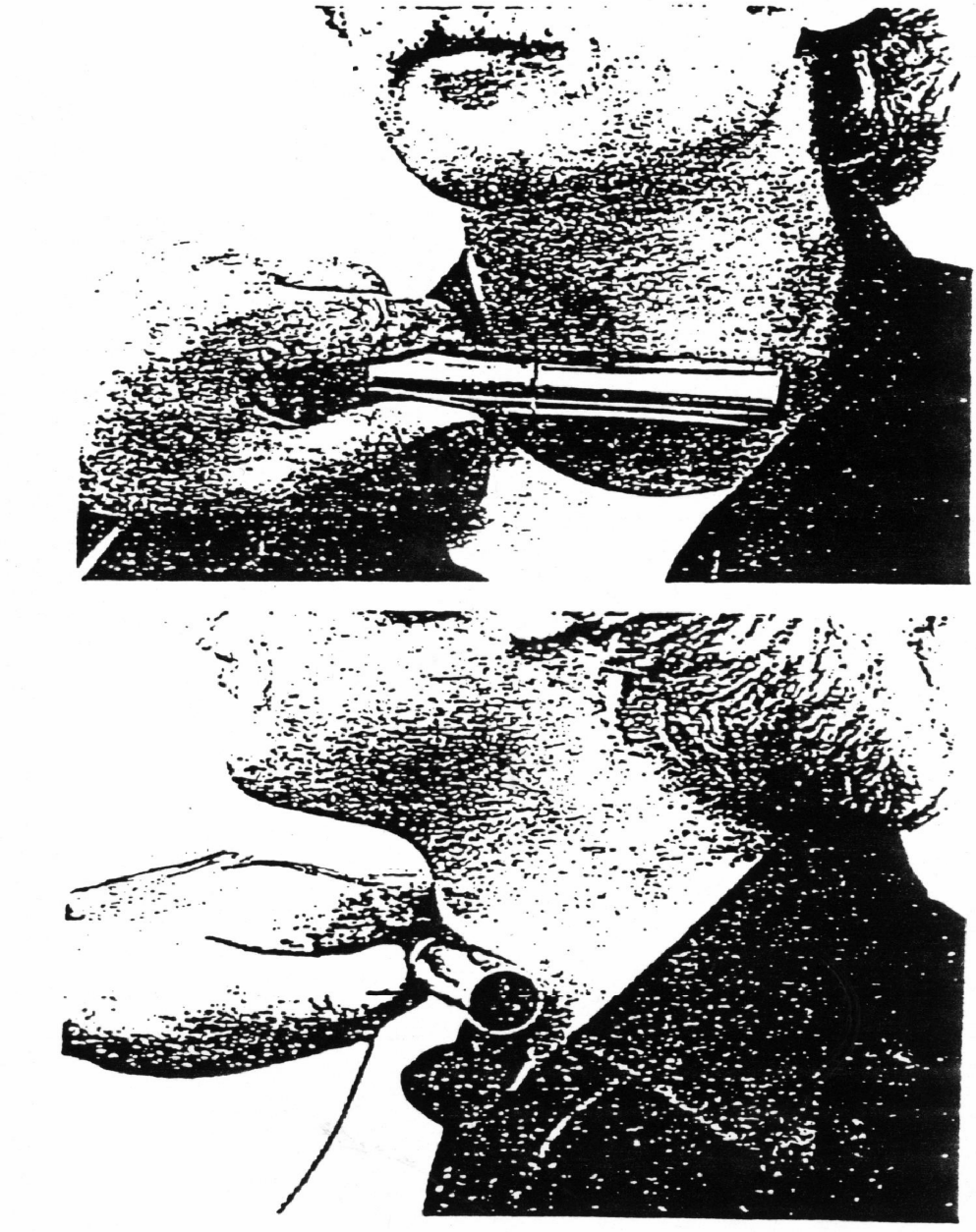
SURVEY INSTRUMENT: _____ BACKGROUND READING _____

INITIAL SURVEY	FINAL SURVEY	DISPOSITION
Location/Reading (mR/hr)	Reading (mR/hr)	

TAB D

FRONT & SIDE VIEWS SHOWING CORRECT

PLACEMENT OF THE PROBE TO DETECT THYROID CONTAMINATION



FRONT AND SIDE VIEWS SHOWING CORRECT PLACEMENT
OF THE PROBE TO DETECT THYROID CONTAMINATION

TAB E

WALK-THRU MONITOR PROCEDURE

- Set-up walk thru monitor in accordance with manufactures directions.

- Ensure current source check and calibration date.

- If walk thru monitor alarms, go to page 4-10, Step 3.1.1.

RADIOLOGICAL PERSONNEL DECONTAMINATION PROCEDURES

1.0 OBJECTIVE

The radiological decontamination procedures described are the methods for decontamination of an emergency worker or member of the public, such as an evacuee.

2.0 PERSONNEL DECONTAMINATION PROCEDURES

2.1 Establish a personnel decontamination facility area. (See TAB A, which illustrates a typical facility).

2.2 Treat serious injuries first and contamination later. A blanket may be used to prevent the spread of contamination if transport to a hospital is necessary. Survey the transporting vehicle after its use and decontaminate as necessary.

2.3 Contaminated persons should be cleansed with soap and warm water, i.e., a thorough shower will most likely be sufficient. Special emphasis should be placed on any specific spots found with contamination in the monitoring process. Also special attention should be given to the hair, hands and fingernails. Detailed personnel decontamination methods are as described in TAB B.

2.4 After thorough cleansing, the individual should be monitored again to check the results. If some contamination still remains, cleansing can be performed again with a mild abrasive soap. If the monitoring after the second thorough cleansing indicates that the contamination is still present, the individual should be sent to the nearest medical facility that is capable of treating contaminated persons.

2.5 Care should be taken that persons who are decontaminated do not become re-contaminated by dressing in contaminated clothing (the clothing they were wearing or possibly other clothes brought by them). If the individual does not have contamination free clothing of his/her own, then clean clothing should be issued the individual until such time as his/her clothing can be decontaminated.

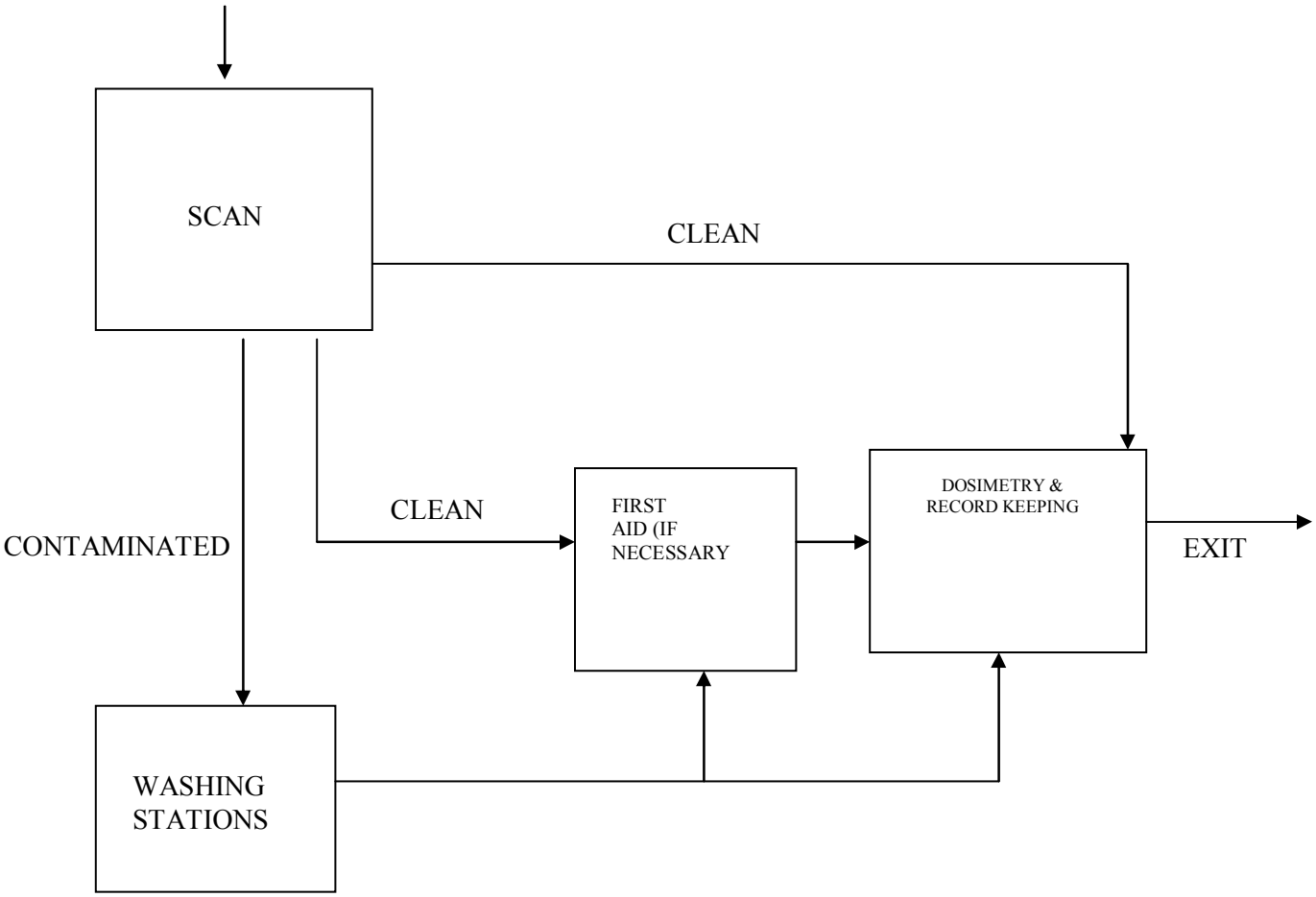
3.0 CLOTHING DECONTAMINATION PROCEDURES

3.1 Articles which are machine washable should be laundered with a conventional detergent, line dried in a contamination free area or machine dried, and retained until they can be monitored as a decontamination check. Highly contaminated clothing should be stored in the same manner as prescribed for contaminated wastes (See Attachment 4-4) and the State Radiological Health Program should be consulted for instruction as to method of decontamination or disposal. Water repellent items may be scrubbed with water and detergent, and retained until monitored.

3.2 The County EM is responsible for arranging for a laundry facility dedicated to washing of contaminated clothing.

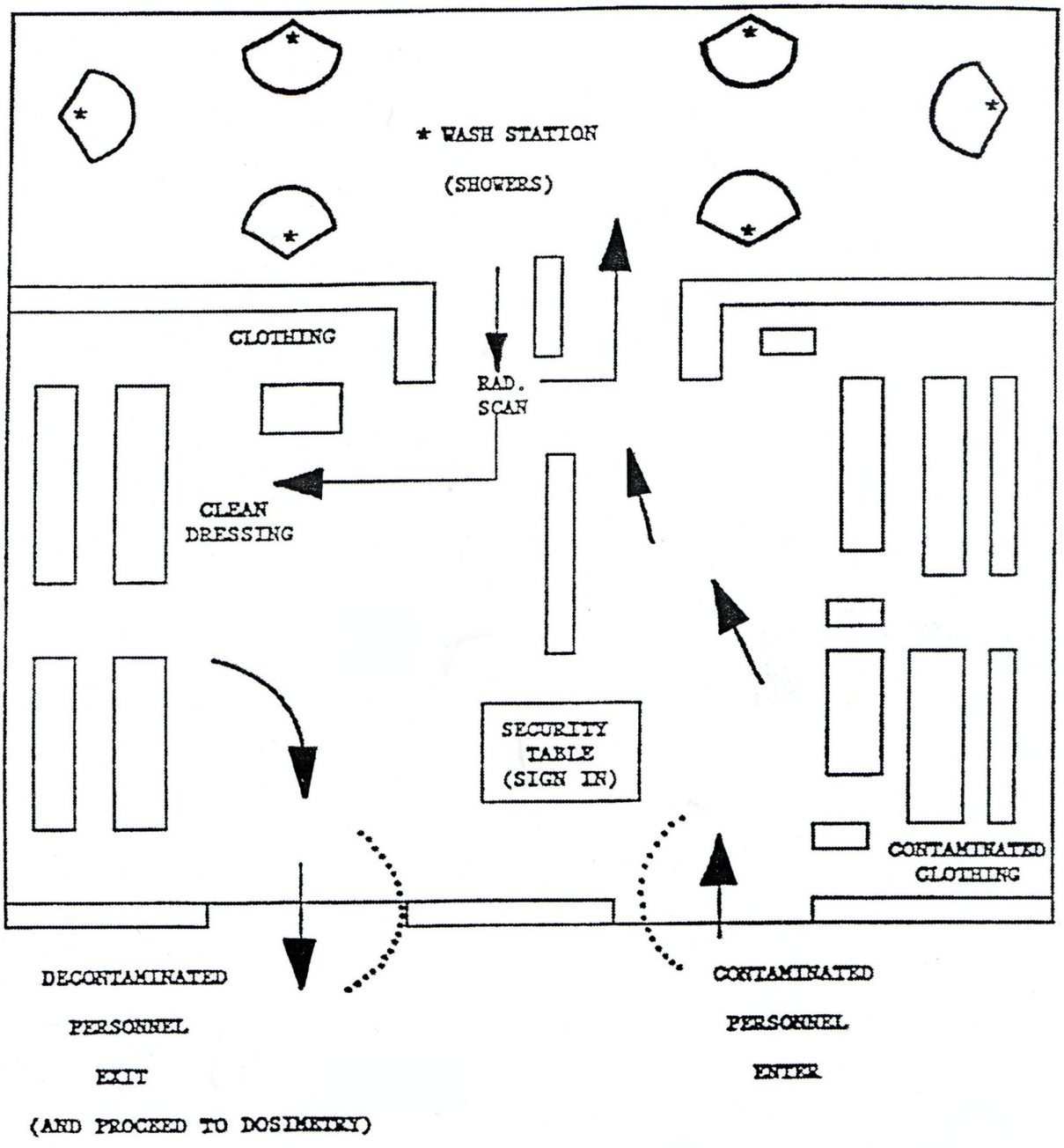
TAB A

FLOW DIAGRAM FOR PERSONNEL DECONTAMINATION FACILITY CHART



TAB A

FLOW DIAGRAM OF PERSONNEL WASHING STATION IN A DECONTAMINATION FACILITY



TAB B

PERSONNEL DECONTAMINATION METHODS

Body Surface	Method*	Technique
Skin and Hair	Warm Water	Rinse thoroughly.
Skin and Hair	Mild soap and Water	Wash 2-3 minutes, do not scrub with a brush.
Skin	Mild detergent soft	Use light pressure with brush and water (heavy lather). Use care not to scratch or erode the skin. If contamination is local, use cotton swabs dipped in thick mixture of detergent and water. Remove using clean swabs. If contamination is widespread, use shower.

The following methods of decontamination will only be performed under proper medical supervision.

Skin	Titanium dioxide	Apply to contaminated area in and water thick, moist paste. Allow thick paste to remain for 2 minutes. Wash with soap and water.
Skin	Potassium permanganate 4% solution	Paint contaminated area 3 times allowing each application to dry. Remove skin discoloration with 4% solution of sodium bisulfate.
Skin	1% solution of phosphoric or oxalic acid or Borax	Use light pressure with a soft brush or sponge and take care not to erode the skin.
Hair	Tide or other detergent	Wash hair, rinse thoroughly, repeat.
Eyes, Ears, & Mouth	Flushing Use Isotonic Irrigants if available.	Roll back the eyelid, flush Nose, with large amounts of water.

TAB B

PERSONNEL DECONTAMINATION METHODS

Body Surface	Method	Technique
Wounds	Flushing	If bleeding is not profuse, wash the wound with large amounts of water and spread edges to stimulate bleeding. If bleeding is profuse, stop bleeding first, clean the eases of wound, and bandage. Remove any remaining surface contamination by one of the first three cleaning methods mentioned above. A qualified physician may remove internal contamination in a proper medical setting later.

NOTE: * Begin with the first listed method and then proceed step to the more severe method, as necessary.

DECONTAMINATION OF EQUIPMENT

1.0 OBJECTIVE

This procedure describes the measures to be used to reduce radioactive contamination levels on equipment.

2.0 CONCEPT

2.1 Complete decontamination procedures as often as necessary to achieve the recommended levels of 0.1mR/hr or 300 cpm or less.

2.2 The methods available for decontamination are varied and no one method is applicable in all instances. The factors that limit or affect the methods chosen for decontamination are listed below:

- o The weather at time of the incident
- o The magnitude of the contamination
- o The type of contaminant
- o The physical characteristics of the surface of object contaminated
- o The hazard to the operators
- o Economic considerations
- o Environmental consequences
- o Physical location of the contaminated object
- o Waste containment capacity

2.3 Common methods of decontamination, once this route is decided upon, include washing or hosing, steam lancing, chemical abrasives, motorized street flushing, sand blasting, vacuuming, sweeping, scraping, bulldozing, and grading. Selection of the method to be used will be made and supervised by an individual properly trained in these decontamination methods.

2.4 Decontamination facilities should have available a minimum of the following resources:

2.4.1 Separate shower rooms and dressing area.

2.4.2 Washing solutions, clean clothing and laundry supplies.

2.4.3 Protective clothing such as disposable uniforms, gloves, booties, and respirators for facility personnel.

2.4.4 Administrative supplies such as pens, pads, records, log sheets, message forms, etc.

2.4.5 Dosimetry equipment such as dosimeters, TLDs and charging units.

2.5 Establish an equipment decontamination facility area. See TAB B, which illustrates typical facility.

2.5.1 The physical shape and size of existing facilities will be the limiting factor in placement of decontamination, monitoring and record keeping stations within the facility. Two main guidelines should be used in determining the placement and layout of a facility.

2.5.1.1 **Simplicity**

The flow of traffic and people should be straight-line whenever possible. Turns, separations, barriers and intersections should be utilized to distinguish individual activities or stations. Traffic cones, tables, chairs, ropes, railing, etc., can be used to mark off patterns of movement. Multiple lanes indicating similar activities will aid in the movement of large groups of personnel. Contaminated personnel should be able to be rapidly identified and moved along to decontamination stations without delay and cross contamination of others.

2.5.1.2 **Isolation**

Once contaminated personnel or vehicles have been identified by radiation monitoring technicians they should be isolated immediately without entering clear areas. Signs indicating contaminated and clear areas as well as dose recording locations, decontamination areas and flow of traffic should be placed in conspicuous locations. TAB B indicates the suggested flow patterns for personnel and vehicles at a decontamination facility. It should be understood that the decontamination of the equipment and personnel should be ideally performed at one location. Limiting factors such as availability of parking may be prohibitive. The establishment of a decontamination facility for the exclusive purpose of handling vehicles and equipment may be necessary when combined facilities are not available. The use of open fields, fire training grounds and paved parking lots as locations separate from personnel decontamination stations may be the most practical choice. They usually provide good draining for large volumes of water. Emergency personnel will have to be shuttled from this location when they need decontamination.

3.0 DECONTAMINATION PROCEDURES FOR SUPPLIES, INSTRUMENTS AND EQUIPMENT

3.1 All items should be monitored first to determine the extent and area of contamination by thoroughly going over the object with the meter probe about 1 to 2 inches from the surface. Wiping and/or washing to the extent necessary to remove the radio-contaminants generally accomplish decontamination of these articles. Decontamination of automotive vehicles can be accomplished by normal washing.

3.2 At the assembly area, monitoring teams will initially direct their efforts to the evacuees. When time permits, the monitoring teams will monitor the vehicles of the evacuees where they are parked. Generally, external monitoring will also be done for those vehicles found to be externally contaminated and those vehicles used by persons found to be contaminated.

3.3 Radioactive decontamination is achieved by use of soap and water as in any cleansing process.

3.4 While wearing rubber or plastic gloves, wash contaminated area with soap and warm water being very careful not to spread contamination over areas not previously contaminated.

- NOTE -

Any materials used in decontamination must be collected for proper disposal. Place in plastic bags until such time as authorized personnel make arrangements for disposal.

3.5 Upon completion of decontamination effort, re-survey equipment/vehicle.

3.6 If survey results indicate contamination levels above acceptable levels given in TAB A, repeat steps 3.3 and 3.4.

3.7 When contamination survey indicates acceptable levels, complete TAB C, Equipment Contamination Survey Data Sheet.

3.8 Record survey results on TAB C.

3.9 If levels are above 0.1 mR/hr or 300 cpm, the equipment/vehicle must be detained until complete contamination can be accomplished.

4.0 DISPOSAL OF CONTAMINATED WASTE

4.1 As described above, clothing and similar materials as well as miscellaneous equipment and vehicles can be decontaminated. This capability precludes the assemblage of a large amount of contaminated material for disposal by special handling; however, where cleaning materials and other items cannot be decontaminated or remain contaminated after decontamination, special handling is necessary.

4.2 Contaminated waste materials should be packaged in a plastic bag, tied securely at the top, and placed in a metal container with a snug fitting lid (garbage can). The metal container(s) should then be stored in a locked room that is not used for any other purpose. Radioactive signs should be posted on the entrance door. Accumulation of contaminated waste materials and the need for disposal should be reported to the County EM Director or designee.

TAB A

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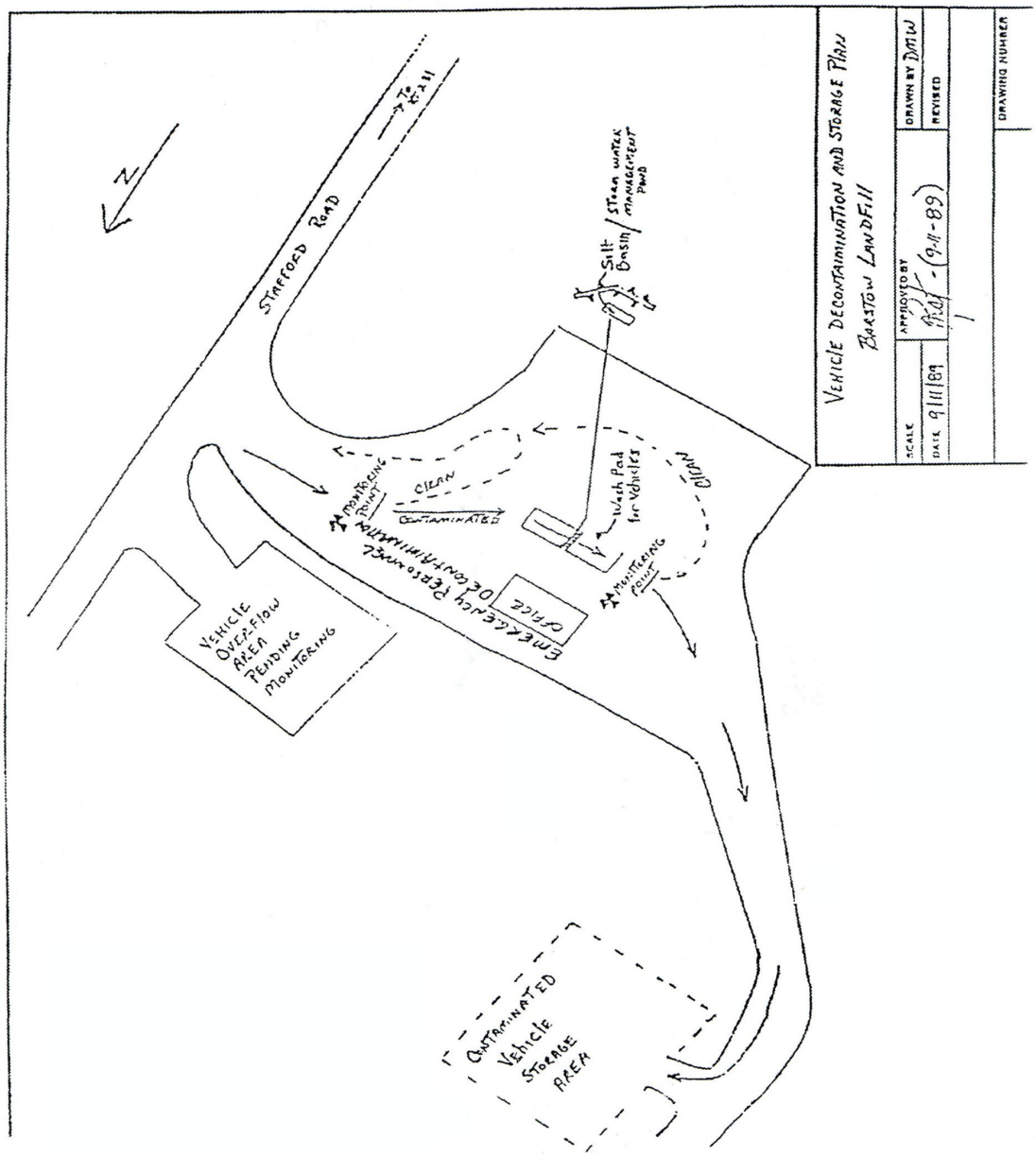
TAB B

FLOW DIAGRAM FOR EQUIPMENT DECONTAMINATION FACILITY CHART



TAB C

EQUIPMENT CONTAMINATION SURVEY DATA SHEET

NAME: _____

ADDRESS: _____

ITEM SURVEYED: _____

SURVEY INSTRUMENT: _____ BACKGROUND READING _____

INITIAL SURVEY	FINAL SURVEY	DISPOSITION
Location/Reading (mR/hr or cpm)	Reading (mR/hr or cpm)	

4 - 5

ADMINISTRATION OF RADIOPROTECTIVE DRUGS

1.0 GENERAL

1.1 The State Department of Health and Mental Hygiene (DHMH) and the State Department of the Environment (MDE) have developed policies on the use, administration, distribution and storage requirements for Potassium Iodide (KI) for emergency workers and the general public.

1.2 Iodine accumulates in the thyroid gland which is located at the front base of the neck just below the larynx (Adam's Apple). Radioactive iodine is no different, i.e., it will accumulate in the thyroid gland in high concentration. Taking KI will have the effect of saturating the thyroid gland with iodine so that radioiodine (radioactive iodine) will not accumulate in a large quantity. Hence, KI lessens the risk to the thyroid gland. The available dose is one tablet of 130 mg. per day. (See TAB B) for sample directions and precautions.

1.3 The toxicity level of KI is very low and dangers in taking this drug are considered to be minimal. Nonetheless, individuals should not take more than the recommended dose. Although side effects to KI are unlikely because of the low dose and the short time period it will be taken, some side effects are possible -- the side effects may include: skin rashes, swelling of the salivary glands, "iodism" (metallic taste, burning mouth and throat, sore teeth and gums, cold symptoms and sometime gastrointestinal symptoms). A few people (estimated 1 in 50,000) may have an allergic reaction with more serious symptoms. These symptoms could be: elevated temperature, joint pains, swelling of the face and body, and at times, severe shortness of breath that requires immediate medical attention.

1.4 The effectiveness of KI as a blocking agent is greatest if administered before the time of exposure to radio-iodine, but some exposure saving can be obtained by administration shortly after exposure. Information on potassium iodide is included as an attachment.

1.5 The likely consequences of emergency worker's exposure to radiation during a fixed nuclear site incident follow:

1.5.1 Emergency workers engaging in life savings activities will not be affected by radiation sickness if the EPA whole body emergency worker exposure PAG (5 rem) is not exceeded.[1] The emergency worker is not risking his health until about 200 rem is exceeded.

1.5.2 Some representative dose effect relationships in man for whole body irradiation within a short period of time (24 hours) are:

Effect	**GAMMA Dose (rem)**
Minimal dose detectable by chromosome analysis. No readily detectable blood changes.	5-25
Temporary sterility.	50
Minimal acute dose readily detectable in a specific individual, e.g., blood count changes.	50-75
Minimal acute dose likely to produce vomiting in about 10% of people so exposed.	75-125
Acute dose likely to produce transient disability and clear blood changes.	150-200
Median lethal dose for a short single exposure.	300
Permanent sterility	800

1.5.3 EPA Protective Action guides for thyroid dose is 25 rem CDE for emergency workers with no specific upper limit for life savings activities. No specific upper limit is given for thyroid exposure since the extreme case complete thyroid loss might be an acceptable penalty for a life saved. However, this should not be necessary if respirators and/or thyroid protection for rescue personnel are available.

---

1 Manual of Protective Action Guides and Protective Actions for Nuclear Incidents, EPA-400-R-92-001.

2.0 IMPLEMENTATION

2.1 The administration of KI as a blocking agent will be as directed by the County Health Officer during an emergency at a nuclear power plant.

2.2 Approximately 1400 doses of KI, tablet form, will be initially located in the County Emergency Operation Center (EOC).

2.3 The County Health Officer will insure that the KI doses are properly stored in a secure location and Emergency Management staff shall maintain shelf-life records.

2.4 All emergency personnel (police, fire and resource personnel, radiological field monitors, medical personnel) who are administered KI will be thoroughly briefed by the Health Officer or his designated representative before each mission.

2.5 Emergency personnel will be provided a Dosimetry-KI Report Form and the KI record will be completed before each mission. Upon completion of the mission, the report will be returned to the Health Officer. The Health Officer or designated representative will review the form and maintain on file.

3.0 RADIATION EXPOSURE CONTROL

3.1 Potassium Iodide

The use of stable iodide as a protection action for emergency workers has been recommended by the Environmental Protection Agency. When a projected thyroid dose is greater than 10 rem CDE the administration of KI as a blocking agent should be considered. Its administration must be in accordance with State of Maryland Health Laws and be under the direction of State or County medical officials. The Secretary of Health and Mental Hygiene or the Deputy State Health Officers are responsible for the release of potassium iodide for use in an emergency. The County Health Officer will brief emergency workers on the limitations and directions for administration of potassium iodide (KI) prior to their departure. The Secretary of Health and Mental Hygiene or the Deputy State Health Officers shall make the determination for continued daily use of KI. (130 milligram per day, per person, up to 10 days).

When KI is to be administered, single doses of 130 milligram (1 tablet) are to be administered to effected individuals prior to responding to an emergency or within two hours of exposure. If it is impossible to administer KI within two hours of exposure, administration beyond this period will still reduce the biological half-life of radioiodine.

Supplies of KI (in tablet form) are located in the Emergency Operations Center (EOC) in each plume zone county. Approximately 1400 doses of KI are located in each county emergency operations center. A stock of approximately 5000 doses of standard solution of potassium iodide (SSKI) is maintained in the pharmacy at Calvert Memorial Hospital in Prince Frederick, Maryland for support of local emergency team workers. Standard solution potassium iodide is administered at the rate of two or three drops of SSKI in a glass of water in lieu of 130 milligram tablets. In the event of the depletion of existing governmental supplies, the request for the use of stock (SSKI) at the Calvert Memorial Hospital must be coordinated through a Deputy State Health Officer with the Secretary of Health and Mental Hygiene.

The shelf-life for potassium iodide is currently considered five years from the date of manufacture. Shelf-life records will be maintained at each storage location. The Deputy State Health Officer will maintain the shelf-life record in each plume zone county.

ATTACHMENT #5

CALVERT COUNTY

PUBLIC INFORMATION STANDARD OPERATING PROCEDURE

1.0 PURPOSE

To disseminate complete, accurate, and authorized information to protect the health and safety of the general public.

2.0 RESPONSIBILITY

The responsibilities of the Calvert County Emergency Public Information Program are delineated in the Calvert County Radiological Emergency Plan. In the event of an accident at CCNPP, the Public Information Officer (PIO), will implement the County's Emergency Public Information Program.

3.0 IMPLEMENTATION

The following procedures will be used in implementing the Public Information function of REP:

3.1 Upon activation, the Public Information Officer will report to the EOC.

3.2 The designated Public Information Officer will contact EAS and other radio and television stations by telephone and or RPU during the early phases of alert and subsequent events. Sample EAS messages, Special News Broadcasts (SNB), and news releases are attached (See TAB A).

3.3 Subsequent to the notification of an Alert, but prior to the activation of the Media Center, the Public Information Officer will provide periodic briefings to members of the press assembled at the Courthouse. Such briefings will be conducted in the County Commissioners Office or other suitable location.

3.4 Upon activation of the Media Center a county PIO representative of the county should be present at the Media Center. Periodic releases will be prepared and duplicated in the EOC and delivered to the County representative at the Media Center. The Public Information Officer will maintain contact with the County representative. The Public Information Officer will provide periodic information to the County representative at the Media Center. The Calvert County PIO Representative may also present information on behalf of St. Mary's County.

3.5 EAS message information to be given to the public should include:

3.5.1 Positive identification of Calvert County as the government giving the information.

3.5.3 Identify the facility experiencing the emergency, emergency classification and current status of conditions.

3.5.4 The possibility that protective actions may need to be taken with reference to published emergency information.

3.5.5 A closing statement asking the affected population to stay tuned for special news broadcast.

3.6 Follow up Special News Broadcast information given to the public should include:

3.6.1 Identify the community or geographic area affected by the incident/accident, (i.e., roads, highways, streams, and waterways) by Protective Action Zones for Calvert County (Reference TAB B).

3.6.2 Specific instructions with regard to protective measures to be taken by residents of the affected area(s).

3.7 County PIO will thoroughly brief replacement upon completion of duty.

3.8 The Emergency Alert System (EAS) will be implemented by the EM Director or designee in accordance with the local EAS procedures for the Southern Maryland area.

4.0 SOP MAINTENANCE

The PIO has overall responsibility to review and update this SOP annually. Telephone lists will be reviewed and updated quarterly or as frequent changes occur.

5.0 RECORDS

A record of activities and copies of all news releases will be kept during the duration of the emergency.

TAB A

INDEX OF SAMPLE NEWS RELEASES, EAS MESSAGES AND SPECIAL NEWS BROADCAST

Page

News Release

5-5 Alert Phase Emergency

EAS Message

5-6 Emergency Alert System Message (precedes all Special News Broadcasts)

Special News Broadcast

5-7 Site Area Emergency Phase

5-8 General Emergency

5-9 Shelter Livestock

5-10 Potassium Iodide

5-11 Take Shelter

5-12 Public Address System for Take Shelter (route alerting message)

5-13 Public Evacuation

5-14 School Evacuation

5-15 Public Address System: Public Evacuation (route alerting message)

5-16 Access Control for the Area

TAB A

RADIO STATION, TV STATION, NEWSPAPER INFORMATION

RADIO

(See copy maintained in EOC)

NEWSPAPERS

(See copy maintained in EOC)

TAB A

RELEASE #:_____
TIME:_____

ALERT PHASE PUBLIC ANNOUNCEMENT

The President of the Board of Calvert County Commissioners has announced that Calvert Cliffs Nuclear Power Plant has declared an Alert at _____. The reason for the Alert is (give Plant's reason for actual or potential substantial degradation of the level of safety in the plant).

State and County emergency action agencies in Calvert County have been notified of the Alert. Field monitoring teams have been alerted to standby as a precaution in case they are needed. The County Emergency Operating Center is being activated to monitor the incident.

The public is advised that no precautionary measures need to be taken at this time. **(Repeat).**

Further announcements on the status of this Alert will be made over local stations.

Authority for news release _____

Release made by _____/_____
(Name) (Title)

Distributed to:

- Nuclear Power Plant _____
- Local Jurisdictions PIOs _____
- MDE, Radiological Health Program _____
- MEMA Operations _____
- St. Mary's and Dorchester County _____

TAB A

RELEASE #: EAS#
TIME:

Time of Broadcast:_____

THIS IS / IS NOT AN EXERCISE

EMERGENCY ALERT SYSTEM MESSAGE

This is an EAS announcement concerning an emergency at the Calvert Cliffs Nuclear Power Plant.

The Emergency Management division of Calvert and St. Mary's County with the authority of the respective county commissioners issue the following message.

A _____ Emergency was declared by the Calvert Cliffs Nuclear Power Plant at _____ hours.
Site / General

_____
NO RELEASE OF RADIATION HAS OCCURRED / THERE IS A POTENTIAL FOR THE RELEASE OF RADIATION / A RELEASE OF RADIATION IS IN PROGRESS.

Protective Actions may need to be implemented in Calvert and St. Mary's County. Refer to the Calvert Cliffs Emergency Information Booklet or inside back cover of the phone book for details. Stay tuned to this station for a special news broadcast that will have additional information and any protective action instructions for the public and affected schools. This concludes the emergency broadcast.

THIS IS / IS NOT AN EXERCISE

TAB A

RELEASE #: SNB#___
TIME:_____

SITE AREA EMERGENCY SPECIAL NEWS BROADCAST

The President of the Board of Calvert County Commissioners has announced that Calvert Cliffs Nuclear Power Plant declared a Site Area Emergency at _____. The reason for the Site Area Emergency is *(give Plant's reason for actual or likely major failure(s).*

State and County emergency action agencies in Calvert County have been notified of the Site Area Emergency. Field monitoring teams will be/have been dispatched to the area to assist Calvert Cliffs personnel in assessing levels of radiation around the Plant. The State and Calvert County Emergency Operating Centers have been fully activated and other emergency personnel have been alerted to standby status.

INSERT APPROPRIATE PROTECTIVE ACTION MESSAGE

- Shelter Livestock
- School Protective Action
- Potassium Iodide
- Shelter Public
- Evacuate Public

Further announcements on the status of this Site Area Emergency will be made over local stations.

Authority for news release _____

Release made by _____/_____
(Name) (Title)

Coordinated with:

- Nuclear Power Plant _____
- Local Jurisdictions PIOs _____
- MDE, Radiological Health Program _____
- MEMA Operations _____
- St. Mary's and Dorchester County _____

TAB A

RELEASE #: SNB#___
TIME:_____

GENERAL EMERGENCY SPECIAL NEWS BROADCAST

The President of the Board of Calvert County Commissioners has announced that Calvert Cliffs Nuclear Power Plant declared a General Emergency at _____ _____.

The reason for the General Emergency is *(give Plant's reason for actual or imminent substantial core degradation or melting with potential for loss of containment integrity).*

All State and County emergency action agencies and support agencies in Calvert County have been notified and the Emergency Operations Center in Prince Frederick is fully activated.

The public is advised to (mention protective actions and cooperation with parallel actions to be taken). (Repeat preceding paragraph and this one as a unit in the text before going on).

Further announcements on the status of this General Emergency will be made over local stations.

INSERT APPROPRIATE PROTECTIVE ACTION MESSAGE(S)

- Shelter Livestock
- School Protective Action
- Potassium Iodide
- Shelter Public
- Evacuate Public

Authority for news release _____

Release made by _____/_____
(Name) (Title)

Distributed to:

- Nuclear Power Plant _____
- Local Jurisdictions PIOs _____
- MDE, Radiological Health Program _____
- MEMA Operations _____
- St. Mary's and Dorchester County _____

TAB A

RELEASE #: SNB#___
TIME:_____

SHELTER LIVESTOCK NOTICE
SPECIAL NEWS BROADCAST

AS A PRECAUTIONARY MEASURE , THE _____ HAS ISSUED
(OFFICIAL)

ORDER FOR FARMERS _____
(WITHIN 10 MILES / WITHIN 50 MILES)

OF THE CALVERT CLIFFS NUCLEAR POWER PLANT TO SHELTER LIVESTOCK. TAKE CARE OF MILK PRODUCING LIVESTOCK FIRST. REMOVE GRAZING ANIMALS FROM PASTURE AND PUT THEM IN A BARN OR OTHER SHELTER IF POSSIBLE. COVER SUPPLIES OF FEED AND WATER IF POSSIBLE. IF YOU MUST EVACUATE, PROVIDE PLENTY OF FOOD AND WATER FOR YOUR ANIMALS. FARMERS WILL HAVE THE OPPORTUNITY TO RETURN TO THEIR FARMS FOR LIVESTOCK CARE UNDER THE SUPERVISION OF COUNTY EMERGENCY WORKERS.

REPEAT AS NEEDED

TAB A

RELEASE#: SNB#____
TIME:_____

POTASSIUM IODIDE
SPECIAL NEWS BROADCAST

TO ENSURE YOUR SAFETY, THE _____ HAS ISSUED A PRECAUTIONARY
(OFFICIAL)

ORDER FOR RESIDENTS OF _____
(DESCRIBE GEOGRAPHICAL AREA & COMMUNITIES)

WHO HAVE AVAILABLE POTASSIUM IODIDE TO INGEST ONE DOSE AT THIS TIME.

REMEMBER THAT POTASSIUM IODIDE ONLY PROTECTS THE THYROID GLAND.

ADDITIONAL PROTECTIVE ACTIONS MAY BE WARRENTED. CITIZENS WHO DO NOT HAVE POTASSIUM IODIDE AVAULABLE WILL BE PROVIDED ONE DOSE AT THE DESIGNATED RECEPTION CENTER. STAY TUNED TO THIS RADIO STATION FOR FURTHER INFORMATION.

REPEAT AS NEEDED

TAB A

RELEASE#: SNB#____
TIME:_____

PUBLIC TAKE SHELTER NOTICE
SPECIAL NEWS BROADCAST

TO ENSURE YOUR SAFETY, THE _____ HAS ISSUED A PRECAUTIONARY
(OFFICIAL)

ORDER FOR RESIDENTS OF _____
(DESCRIBE GEOGRAPHICAL AREA & COMMUNITIES)

TO REMAIN IN YOUR HOMES WITH ALL DOORS AND WINDOWS CLOSED AND OUTSIDE VENTILATION TURNED OFF UNTIL OTHERWISE NOTIFIED. TIE A WHITE CLOTH ON YOUR FRONT DOOR SO THAT OFFICIALS WILL KNOW THAT YOU HAVE BEEN NOTIFIED. STAY TUNED TO THIS RADIO STATION FOR FURTHER INFORMATION.

REPEAT AS NEEDED

TAB A

RELEASE #:_____
TIME:_____

PUBLIC TAKE SHELTER NOTICE
ROUTE ALERT MESSAGE

INSTRUCTIONS: MESSAGE TO BE USED BY OFFICIALS MOBILE PUBLIC ADDRESS SYSTEMS WHEN NOTIFYING THE PUBLIC TO TAKE SHELTER IN AFFECTED AREA.

ATTENTION PLEASE:

THIS IS THE _____. AN ACCIDENT OCCURRED
(DEPT/AGENCY)

AT THE CALVERT CLIFFS NUCLEAR POWER PLANT RESULTING IN (A RELEASE/THE POTENTIAL FOR A RELEASE) OF RADIOACTIVE MATERIALS. THE _____ HAS ISSUED
(OFFICIAL)

A PRECAUTIONARY ORDER TO REMAIN IN YOUR HOMES WITH ALL DOORS AND WINDOWS CLOSED AND OUTSIDE VENTILATION TURNED OFF UNTIL OTHERWISE NOTIFIED. TIE A WHITE CLOTH OR TOWEL ON YOUR FRONT DOOR SO THAT EMERGENCY MANAGEMENT OFFICIALS WILL KNOW THAT YOU HAVE BEEN NOTIFIED.

STAY TUNED TO RADIO STATION _____ FOR MORE INFORMATION.

TAB A

RELEASE #: SNB#___
TIME:_____

PUBLIC EVACUATION
SPECIAL NEWS BROADCAST

TO ENSURE YOUR SAFETY THE _____ HAS ORDERED THE PRECAUTIONARY
(OFFICIAL)

EVACUATION OF

_____
(DESCRIBE PROTECTIVE ACTION ZONE(S) TO BE EVACUATED)

RESIDENTS IN _____ARE REQUESTED TO GO TO
(DESCRIBE GEOGRAPHICAL AREA & COMMUNITIES)

_____
(GIVE EVACUATION ROUTE TO BE FOLLOWED AND IDENTIFY EVACUATION/RELOCATION CENTER)

RESIDENTS IN _____ARE REQUESTED TO GO TO
(DESCRIBE GEOGRAPHICAL AREA & COMMUNITIES)

_____
(GIVE EVACUATION ROUTE TO BE FOLLOWED AND IDENTIFY EVACUATION/RELOCATION CENTER)

RESIDENTS IN _____ ARE REQUESTED TO GO TO
(DESCRIBE GEOGRAPHICAL AREA & COMMUNITIES)

_____
(GIVE EVACUATION ROUTE TO BE FOLLOWED AND IDENTIFY EVACUATION/RELOCATION CENTER)

RESIDENTS OF _____ ARE NOT, I REPEAT.
(DESCRIBE AREA/COUNTIES & COMMUNITIES)

ARE NOT REQUIRED TO EVACUATE, BUT ARE REQUESTED TO REMAIN IN THEIR HOMES WITH ALL DOORS AND WINDOWS CLOSED AND AIR-CONDITIONERS TURNED OFF UNTIL OTHERWISE NOTIFIED. TIE A WHITE CLOTH ON YOUR FRONT DOOR SO THAT OFFICIALS WILL KNOW THAT YOU HAVE BEEN NOTIFIED. STAY TUNED TO THIS RADIO STATION FOR FURTHER INFORMATION.

REPEAT AS NEEDED

RESIDENTS IN THESE AREAS SHOULD FOLLOW DIRECTIONS OF LOCAL AND STATE AUTHORITIES. SHELTER, FOOD AND MEDICAL SERVICES WILL BE AVAILABLE AT THE
MASS CARE CENTERS.

TAB A

RELEASE #: SNB#___
TIME:_____

SCHOOL EVACUATION '
SPECIAL NEWS BROADCAST

TO ENSURE THE SAFETY OF STUDENTS THE _____ HAS ORDERED THE
(OFFICIAL)

PRECAUTIONARY EVACUATION OF SCHOOLS WITHIN THE 10-MILE CALVERT CLIFFS

EMERGENCY PLANNING ZONE.

STUDENTS OF ___ _____ WILL BE BROUGHT DIRECTLY TO
(NAME SCHOOL)

_____
(HOST SCHOOL)

STUDENTS OF ____ _____WILL BE BROUGHT DIRECTLY TO
(NAME SCHOOL)

_____
(HOST SCHOOL)

STUDENTS WILL BE SAFELY TRANSPORTED TO THE DESIGNATED HOST SCHOOL. PLEASE DO NOT ATTEMPT TO PICK CHILDREN UP AT THERE REGULAR SCHOOL.
STAY TUNED TO RADIO STATION _____ FOR MORE INFORMATION.

(REPEAT AS NEEDED)

TAB A

RELEASE #: _____
TIME:_____

PUBLIC EVACUATION NOTICE
ROUTE ALERTING

INSTRUCTIONS: MESSAGE TO BE USED BY OFFICIALS MOBILE PUBLIC ADDRESS SYSTEMS WHEN NOTIFYING THE PUBLIC TO EVACUATE AFFECTED AREA.

ATTENTION PLEASE:

THIS IS THE _____. AN ACCIDENT OCCURRED AT THE CALVERT CLIFFS
(DEPT/AGENCY)

NUCLEAR POWER PLANT RESULTING IN (A RELEASE/THE POTENTIAL FOR A RELEASE) OF

RADIOACTIVE MATERIALS.

THE _____ HAS ORDERED THE PRECAUTIONARY EVACUATION OF YOUR AREA.
(OFFICIAL)

PLEASE PROCEED _____ TO THE EVACUATION/RELOCATION CENTER
(DIRECTION ROUTE)

LOCATED AT
_____.

YOU ARE REQUESTED TO TAKE A CHANGE OF CLOTHES, ANY MEDICATION OR PRESCRIPTION DRUGS AND IMPORTANT PAPERS. PLEASE SHUT ALL YOUR WINDOWS, TURN OFF ALL UNNECESSARY ELECTRICAL EQUIPMENT AND INSURE THE GAS IS OFF AT YOUR STOVE. LOCK YOUR HOME AND TIE A WHITE CLOTH OR TOWEL ON YOUR FRONT DOOR SO THAT EMERGENCY MANAGEMENT OFFICIALS WILL KNOW THAT YOU HAVE BEEN NOTIFIED. PLEASE CHECK WITH YOUR NEIGHBORS TO MAKE SURE THEY HAVE TRANSPORTATION. PERSONS NOT HAVING TRANSPORTATION SHOULD NOTIFY THE

_____
(GIVE APPROPRIATE INSTRUCTIONS)

STAY TUNED TO RADIO STATION _____ FOR MORE INFORMATION.

TAB A

RELEASE #: SNB#___
TIME:_____

NOTIFICATION: ACCESS CONTROL TO AREA
SPECIAL NEWS BROADCAST

INSTRUCTIONS: MESSAGE TO BE USED BY OFFICIALS WHEN NOTIFYING THE PUBLIC OF ACCESS CONTROL TO AN AREA WHERE TAKE SHELTER ORDER HAS TAKEN PLACE.

AN ACCIDENT OCCURRED IN THE CALVERT CLIFFS NUCLEAR POWER PLANT. ACCESS TO

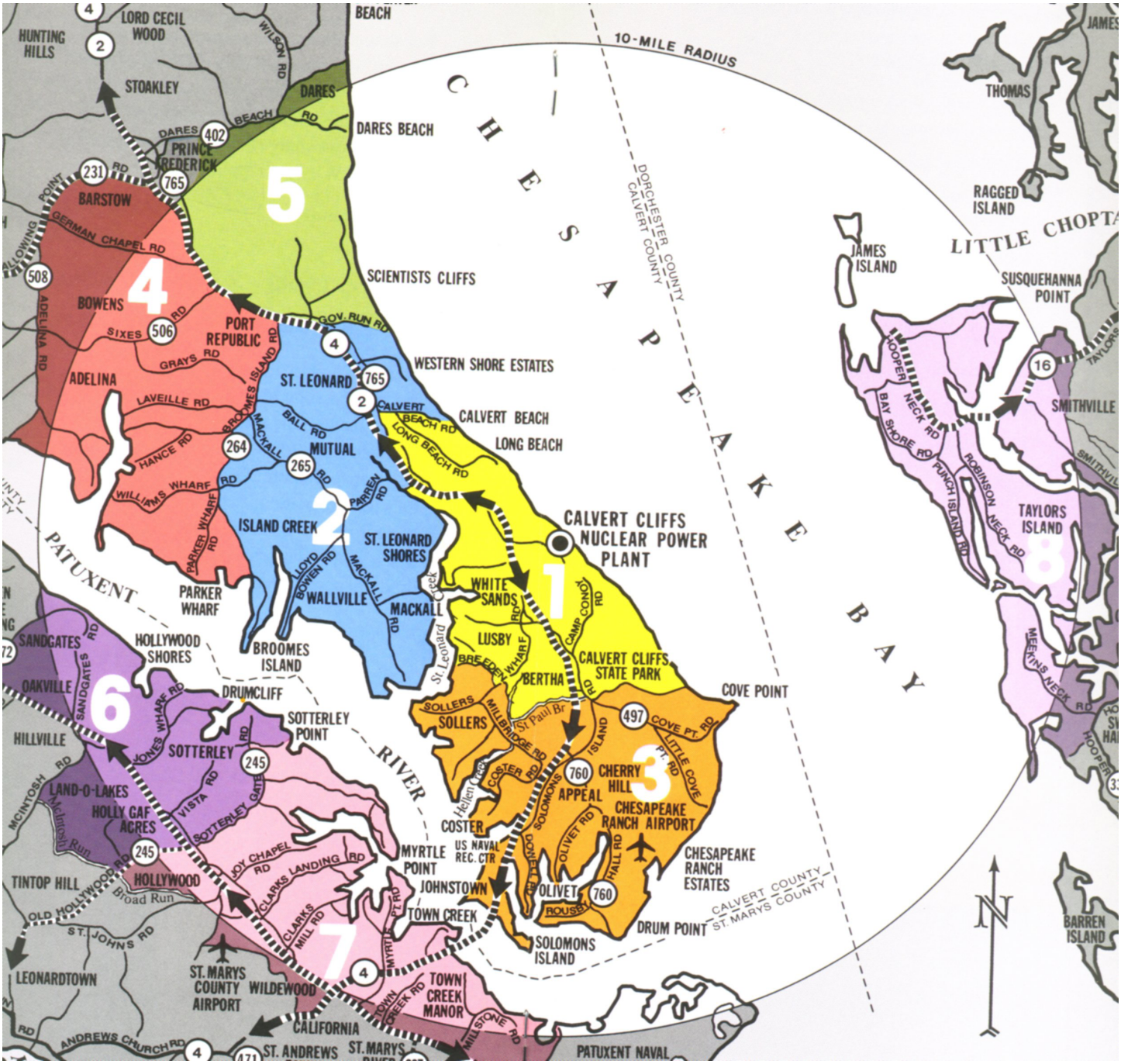
_____ IS RESTRICTED TO OFFICIAL PERSONNEL AND RESIDENTS WHO MUST
(DESCRIBE AREA)

RETURN TO THEIR HOMES. ALL RESIDENTS OF THIS AREA HAVE TAKEN SHELTER WITHIN THEIR HOMES. NON-RESIDENTS ARE ADVISED TO USE AN ALTERNATE ROUTE (EXPLAIN ALTERNATE ROUTE).

PERSONNEL DRIVING IN THE AFFECTED AREA ARE REQUESTED TO KEEP YOU CAR WINDOWS AND VENT CLOSED. ONCE ARRIVING AT YOUR HOME, REMAIN INSIDE WITH ALL DOORS AND WINDOWS CLOSED AND OUTSIDE VENTILATION TURNED OFF UNTIL OTHERWISE NOTIFIED. TIE A WHITE CLOTH OR TOWEL ON YOUR FRONT DOOR SO THAT THE EMERGENCY MANAGEMENT OFFICIALS WILL KNOW THAT YOU HAVE BEEN NOTIFIED. STAY TUNED TO RADIO STATION _____ FOR MORE INFORMATION.

TAB B

PROTECTIVE ACTION ZONES



ATTACHMENT #6

CALVERT COUNTY

SHERIFF'S DEPARTMENT STANDARD OPERATING PROCEDURE

1.0 RESPONSIBILITIES

1.1 The responsibilities of the Sheriff's Department are outlined in the Calvert County Radiological Emergency Plan. The Sheriff's Department is the key agency for take shelter, thyroid protection and evacuation and is supported in this action by the Fire and Rescue Service, the Maryland State Police and the Department of Natural Resources, Forest and Parks Division and the Marine Police.

Further responsibilities of the Sheriff's Department include the following:

1.1.1 Provide transportation and communication for accident assessment personnel and equipment.

1.1.2 Facilitate initial notification through mobile public address systems and initial notification of the public through direct contact.

1.1.3 Function as a support agency to Maryland State Police - Barrack U for access control, law enforcement, crime prevention and reentry.

1.1.4 Support the Emergency Public Information Program.

2.0 COMMAND AND COORDINATION

2.1 The Sheriff or his alternate is responsible for ensuring that the agency is properly staffed and sufficient resources available for 24-hour operations for a protracted period.

2.2. Normal procedures will be utilized for obtaining necessary resources. When these sources become exhausted, requests for additional resources will be made to the EM Director or designee through the EOC representative.

2.3 A record of activities shall be kept during the duration of the emergency. A record of man-hours expended and other costs shall be maintained and submitted to the EM Specialist at the end of the emergency. Receipts will be provided.

3.0 IMPLEMENTATION

This section identifies the pre-planned response to each emergency class declared by CCNPP.

3.1 **Unusual Event** - No response required.

3.2 **Alert**

3.2.1 Upon notification by the Calvert County Emergency Management Director or designee of an Alert at the CCNPP, the Sheriff or his designee will report to the Calvert County EOC.

3.2.2 The Sheriff or his designee will initiate a call up of all off-duty personnel from a prepared list.

3.2.3 Designate route alerting teams to assemble at staging areas and pre-deploy units to their respective route areas if event escalation is imminent.

3.3 **Site Area Emergency**

3.3.1 If the situation at the facility (CCNPP) escalates to a Site or General Emergency, the Sheriff or designee will review and coordinate with the MSP, NRP, and F&R for route alerting and access control. (Refer to Maryland State Police Attachment #14).

3.3.2 Notify EOC representative to report to County EOC.

3.3.3 Notify all other personnel to report to assigned duty station for briefing and possible assignment.

3.4 **General Emergency**

3.4.1 Same as for Site Area Emergency.

4.0 NOTIFICATION AND COMMUNICATION

4.1 Initial Notification

Upon notification of an emergency:

4.1.1 Verify the authenticity and content of the message if caller is unknown by return call to the Calvert Control Center OR (410-535-0314/0396), EOC.

4.1.2 Notify the Sheriff or the Sheriff designee.

4.1.3 At the direction of the Sheriff or designee, initiate a call up of all off-duty personnel.

4.2 Communications

4.2.1 Communications with agency personnel will be by routine channels.

4.2.2 Communications with the EOC will be by commercial telephone, EOC hotline or routine radio channels.

5.0 ACCIDENT ASSESSMENT

5.1 Upon request of MDE through County EM Director or designee, the Sheriff will provide drivers, vehicles, and communications for State field monitoring teams.

- CAUTION -

BEFORE DISPATCHING ANY PERSONNEL, CHECK WITH THE RO ON THE STATUS OF THE EMERGENCY. IF RADIATION HAS BEEN RELEASED, MAKE SURE ALL EMERGENCY WORKERS ARE BRIEFED ON EXPECTED DOSE RATES AND STAY TIMES. MAKE SURE EACH EMERGENCY WORKER IS ISSUED DIRECT READING DOSIMETERS, TLD, RADIATION EXPOSURE RECORD AND THAT EACH TEAM HAS RADIO COMMUNICATIONS TO THE COUNTY COMMUNICATIONS CENTER.

6.0 PROTECTIVE ACTIONS

6.1 Take Shelter / Thyroid Protection (KI)

6.1.1 Upon request of the County EM Director or designee, the Sheriff, in coordination with MSP-Barrack U, will dispatch vehicles equipped with public address systems to areas specified by the EM Director or designee to notify residents to tune to an EAS station.

6.1.2 Packets with route assignments and an emergency message provided by the County EM Director or designee are maintained by the EOC for distribution at time of deployment from staging areas.

6.1.3 Road blocks are established in coordination with MSP-Barrack U to prevent access to the area as part of the Take Shelter action. Access control points are listed in Tab B.

6.2 Evacuation

6.2.1 Upon notification by the County EM Director or designee, the Sheriff will initiate this evacuation procedure.

6.2.2 The Sheriff will dispatch vehicles equipped with public address systems to areas specified by the EM Director or designee to notify residents to tune to an EAS station. Additional vehicles may be obtained from the Director of Public Safety and MSP Barrack U upon request to the EM Director or designee.

6.2.3 The Sheriff will initiate notification on the waterways in the affected area by contacting the Department of Natural Resources (DNR), Marine Police Southern Regional Commander or EOC representative who will supply boats equipped with public address systems to notify boaters and land vehicles similarly equipped to notify citizens located in Calvert Cliffs State Park.

6.2.4 The MSP-Barrack U will initiate access control (See 6.3 of this SOP) to prevent entry into the effected areas and to provide timely evacuation, assisted by the Sheriff's Department on land and DNR on the waterways. Barriers will be provided by the County Department of Public Works and State Highway Administration.

6.2.5 The Sheriff will request the Superintendent of Schools to provide buses to move those without transportation. Requests for transportation for non-ambulatory citizens will be made to the Transportation Officer.

6.2.6 Packets with route assignments and an emergency message provided by the County EM Director or designee are maintained by the EOC for distribution at time of deployment from staging areas. Possible route assignments will be by zones as shown in TAB A. The Department of Natural Resources maintains navigation charts for designating evacuation areas on water.

6.3 Access Control

6.3.1 Access Control points will be determined in the area to be restricted as announced by the EM Director or designee. Packets with Stationary Posts listed are maintained by the MSP-Barrack U for distribution at time of deployment from reception centers.

6.3.2 Control points will be manned by MSP personnel assisted by the Sheriff's Department. Barricades will be provided by the County Public Works Department and State Highway Administration as requested.

6.3.3 Access to affected areas on waterways will be under the direction of the County EM Director or designee and carried out by Department of Natural Resources personnel in boats.

7.0 PARALLEL ACTIONS

7.1 Law Enforcement and Crime Prevention

Will be achieved by the MSP supported by the Sheriff, using established procedures to prevent looting, vandalism, and other incidents.

7.2 Return

The Sheriff and MSP will support the EM Director or designee in ensuring an orderly flow of traffic back into the area. Roadblocks will be removed and sufficient staff will be retained to handle criminal and motor vehicle complaints in the area.

8.0 PUBLIC INFORMATION

All media requests for information will be made to the County PIO in the EOC. Any information requested by the County PIO will be provided by the Sheriff or his designee.

9.0 TRAINING

The Sheriff will assure that his personnel will avail themselves of required training as arranged for by the EM Director or designee.

10.0 EXERCISES AND DRILLS

The Sheriff will cooperate with the EM Director or designee by participating in scheduled exercises and drills.

11.0 SOP MAINTENANCE

The Sheriff will review for possible revision this SOP at a minimum of once annually. Telephone lists will be reviewed for possible revision at least once each quarter.

TAB A

ZONE ASSIGNMENT FOR ROUTE ALERTING

- Note -
Route alerting is only required for residence where a siren failure is indicated.
IF a total siren system failure occurs then conduct route alerting using prescribed routes listed below

As a result of the pending emergency, you have been assigned to perform route alerting in a certain protective action zones (see attached map and instructions). Your mission is to efficiently utilize the personnel assigned to you, and to notify all civilian personnel in your area of the emergency. The appropriate emergency message is included in your packet. The Sheriff's Office will advise you of your personnel assignments. Note them on the following sheet.

If an evacuation is ordered and any of the citizens in your area require transportation to a reception center, they should be directed to obtain transportation from one of the school buses being dispatched throughout the area. Only under conditions of extreme hardship or emergency should you transport personnel to the reception or mass care center.

All businesses should be advised of the emergency so that they may secure their locations to allow employees to take protective actions.

Stationary posts will be established to keep unauthorized people out of the area, to suppress crime during an evacuation, and to advise those residents who wish to enter the area of the emergency. If their presence will contribute to a traffic problem or disrupt the flow of evacuees from the area, they should be denied entrance.

When you have completed your route alerting assignment and have all stationary posts manned, advise the EOC and await further instructions.

TAB A

ZONE 1

Car #	_____	Both sides of St. Leonard Rd. from Rt. 264 intersection South to end near Parran Road (includes St. Leonard). (1 & 2). (excludes Scientist Cliffs, Western Shores and Long Beach / Calvert Beach)
Car #	_____	Residents on the both sides of Nursery Rd. from the entrance to the Power Plant South to end. H.G.Trueman Rd. from Rt. 2-4 to and including Camp Canoy Road. (1)
Car #	_____	Notification in the White Sands subdivision North of White Sands Dr. (1)
Car #	_____	Notification in the White Sands subdivision South of White Sands Dr. (1)
Car #	_____	Both sides of Pardoe Rd., Sollers Wharf Rd south to and including McQueen Rd. (1 & 3)
Car #	_____	Both sides of Saw Mill Rd. and Planters Wharf from Rt. 2-4 South to the Power Plant. (1 & 2)
Car #	_____	Long Beach area residences on the South side of Long Beach Rd. (1)
Car #	_____	Long Beach area residences on the North side of Long Beach Rd. to South side of Flag Harbor Blvd. (1)
Car #	_____	Long Beach area, residences on North side of Flag Harbor (includes Long Beach Rd from Calvert Beach Rd). (1 & 2)
Car #	_____	Residences on both side of H.G. Truman Rd. from Camp Conoy Rd. to Cove Point Rd. (1 & 3)
Car #	_____	Residences on both side of Calvert Beach Rd. to Flag Harbor including Bay View Ave. (1 & 3)

TAB A

ZONE 2

Car #	_____	Residences North side of Broomes Island Rd. from Rt. 2-4 to Mackal Rd. (includes all of Grays Rd to Rt. 506 and Mutual Estates (4 & 2)
Car #	_____	Residences south side of Broomes Island Rd. from Rt. 2 to Mackal Rd. (includes Chippenwood and all of Ball Rd. to Rt. 2-4.) (4 & 2)
Car #	_____	From Broomes Island Rd. - Both sides of Mackall Rd. to Dorothy Johnson Ct. (2)
Car #	_____	From Dorothy Johnson Ct. - Both sides of Mackall Rd. to Parran Rd.(2)
Car #	_____	Both sides of Broomes Island Rd. from Mackall Rd. to Williams Wharf Rd.). (excludes Hance and Williams Wharf Rd. (2 & 4)
Car #	_____	Both sides of Broomes Island Rd from Williams Wharf Rd. to the end. Includes Parker Wharf Rd., Ramsey Hodges and all of Broomes Island. (4, 2)
Car #	_____	Western Shores subdivision, residences on the north side of Western Shore Blvd. (2)
Car #	_____	Western Shores subdivision, residences on south side of Western Shore Blvd. (2)
Car #	_____	Both sides of Governor's Run R. including Kenwood Beach subdivision in its entirety. (2)

TAB A

ZONE 2 (cont.)

Car # _____ Both sides of Parran Rd from Rt. 2 to Mackall Rd including St. Leonard Shores and Lloyd Bowen Rd. from Mackall to end (2)

Car # _____ Both sides of Mackall Rd. from Parran to end. (2)

ZONE 3

Car # _____ Residences on both sides of Dowell Rd. from Rt. 2&4 to end. (3)

Car # _____ Residences on both sides of H.G. Truman from Cove Point to Rousby Hall . (3)

Car # _____ Residences on both sides of H.G. Truman from Rousby Hall to Dowell Rd. (3)

Car # _____ Solomon's Island residences from Lore St. South. (3)

Car # _____ H.G. Truman from Dowell Rd. to Lore Rd. Solomon's Island residences from Lore St. South. (3)

Car # _____ Residences on the North side of Rt. 497. (3)

Car # _____ Residences on the South right side of Rt. 497. (3)

Car # _____ Residences on both sides of Little Cove Point Rd. and Park Chesapeake (exclude Ranch Club) (3)

Car # _____ Residences on both sides of Olivet Rd beginning at the intersection of Rt. 760 and Olivet Rd. (3)

Car # _____ Residences on both sides of Sollers Wharf Rd, from McQueen Rd, south to end. (except Mill Bridge) (3)

Car # _____ Both sides of Mill Bridge Rd including Turner Rd and Preston Pt. (3)

Car # _____ Both sides of Coster Rd from Rt. 2 to end of road (includes Bafford Rd, Cove Ct, and Crab House Rd). (3)

Car # _____ From H.G Truman – Rousby Hall to Clubhouse Dr.. (3)

Car # _____ From Clubhouse Dr., North side of Rt. 760 to end. (3)

Car # _____ From Clubhouse Dr., South side of Rt. 760 to end (except Drum Point). (3)

Car # _____ Drum Point. (3)

TAB A

ZONE 3 (cont)

Chesapeake Ranch Estates

Car #	_____	Catalina to Clubhouse, Right on Catalina and all side streets. Clubhouse Dr. to water.. (3)
Car #	_____	Clubhouse / Catalina, Left on Catalina, Hawthorne, Cornstalk, Council Bluffs, Dogwood Court, Towanda, Coyotte, Cactus, Yuma, Sage Brush to Thunderbird. (3)
Car #	_____	Residents on both sides from Thunderbird and Catalina to Town Center Blvd. (Texaco gate). (3)
Car #	_____	Both sides Gunsmoke Trail from Town Center Blvd. to Tomahawk to Little Cove Point Rd. (3)
Car #	_____	Both sides from Big Sandy Run and Tomahawk - to Catalina, Left on Catalina to Bay. (3)
Car #	_____	From Catalina at Thunderbird North Catalina. (3)
Car #	_____	From Catalina at Goldenwest to bay. (3)

ZONE 4

Car #	_____	West Side of Rt. 2, south from Pr. Fred. to Rt. 264 (Broomes Island Road). (includes Whispering Woods and Mountain Trail)(4)
Car #	_____	All of German Chapel Road and residences on Rt. 765 including Calvertowne from Old Field Lane South to Rt. 2 - 4. (4 & 5)
Car #	_____	Pine Trailer Park & both sides of Rt. 506 (Sixes Rd) to Rt. 508 (Adelina Rd.) (including Hutchins Rd and Harris Rd). (4)
Car #	_____	Residences on South sides of Rt. 508 from Rt. 506 to Prison Pt (includes Old Adelina Rd, Maxes Hollow R, & Honey Cove). (4)
Car #	_____	Residences on Hance Rd, Crane Rd, Williams Wharf Rd, and Laveille Rd. (4)

TAB A

ZONE 5

Car #	_____	Dares Beach - Residences south of MD Ave (includes Goldstein Rd). and Dares Beach - Residences north of MD Ave. (5)
Car #	_____	Both sides of Parkers Creek Rd, including Wash Hance Rd. (5)
Car #	_____	Residences on both sides of Scientists Cliffs Rd & those residing in the Gate "E" are of Scientists Cliffs. (5)
Car #	_____	Scientists Cliffs (Gates A & B). (5)
Car #	_____	Scientists Cliffs (Gates C & D). (5)

TRANSPORTATION

If any people in your notification sectors desire to evacuate and have absolutely no one to call who can provide shelter or transportation outside the danger zone, they may obtain transportation from County Public Transportation and/or School Buses, being dispatched throughout the area.

SINGLE SIREN FAILURE FOR ROUTE ALERTING

- Note -
Route alerting is only required for residence where a siren failure is indicated.
IF a total siren system failure occurs then conduct route alerting using prescribed routes listed for Zone alerting.

Siren 1

Car # _____ West Side of Rt. 2, South from Pr. Fred. to Rt. 264 (Broomes Island Road). (includes Whispering Woods and Mountain Trail) (4)

Car # _____ All of German Chapel Road and residences on Rt. 765 including Calvertowne from Old Field Lane South to Rt. 2/4. (4 & 5)

Siren 2

Car # _____ West Side of Rt. 2, south from Pr. Fred. to Rt. 264 (Broomes Island Road). (includes Whispering Woods and Mountain Trail) (4)

Car # _____ All of German Chapel Road and residences on Rt. 765 including Calvertowne from Old Field Lane South to Rt. 2/4. (4 & 5)

Car # _____ Pine Trailer Park & both sides of Rt. 506 (Sixes Rd) to Rt. 508 (Adelina Rd.) (including Hutchins Rd and Harris Rd). (4)

Siren 3

Car # _____ Both sides of St. Leonard Rd. from Rt. 264 intersection South to end near Parran Road (includes St. Leonard). (excludes Scientist Cliffs, Western Shores and Long Beach / Calvert Beach) (1 & 2)

Car # _____ Residences North side of Broomes Island Rd. from Rt. 2/4 to Mackall Rd. (includes all of Grays Rd to Rt. 506 and Mutual Estates (2 & 4)

Car # _____ Residences south side of Broomes Island Rd. from Rt. 2 to Mackall Rd. (includes Chippenwood and all of Ball Rd. to Rt. 2/4.) (2 & 4)

Car # _____ West Side of Rt. 2/4, South from Prince Frederick. to Rt. 264 (Broomes Island Road). (includes Whispering Woods and Mountain Trail) (4)

Car # _____ Pine Trailer Park & both sides of Rt. 506 (Sixes Rd) to Rt. 508 (Adelina Rd.) (including Hutchins Rd and Harris Rd). (4)

Car # _____ Both sides of Parkers Creek Rd, including Wash Hance Rd. (5)

Siren 4

Car # _____ Both sides of St. Leonard Rd. from Rt. 264 intersection South to end near Parran Road (includes St. Leonard). (excludes Scientist Cliffs, Western Shores and Long Beach / Calvert Beach) (1 & 2)

Car # _____ Residences North side of Broomes Island Rd. from Rt. 2-4 to Mackal Rd. (includes all of Grays Rd to Rt. 506 and Mutual Estates. (2 & 4)

Car # _____ Residences South side of Broomes Island Rd. from Rt. 2 to Mackal Rd. (includes Chippenwood and all of Ball Rd. to Rt. 2/4. (2 & 4)

Car # _____ Both sides of Governor's Run R. including Kenwood Beach subdivision in its entirety. (2)

Car # _____ West Side of Rt. 2/4, South from Prince Frederick. to Rt. 264 (Broomes Island Road). (includes Whispering Woods and Mountain Trail) (4)

Car # _____ Both sides of Parkers Creek Rd, including Wash Hance Rd. (5)

Car # _____ Residences on both sides of Scientists Cliffs Rd & those residing in the Gate "E" are of Scientists Cliffs. (5)

Car # _____ Scientists Cliffs (Gates A & B). (5)

Car # _____ Scientists Cliffs (Gates C & D). (5)

Siren 5

Car # _____ Both sides of Parkers Creek Rd, including Wash Hance Rd. (5)

Car # _____ Residences on both sides of Scientists Cliffs Rd & those residing in the Gate "E" are of Scientists Cliffs. (5)

Car # _____ Scientists Cliffs (Gates A & B). (5)

Car # _____ Scientists Cliffs (Gates C & D). (5)

Siren 6

Car # _____ Dares Beach - Residences south of MD Ave, (includes Goldstein Rd) and Dares Beach - Residences North of MD Ave. (5)

Siren 7

Car # _____ Residences North side of Broomes Island Rd. from Rt. 2/4 to Mackall Rd. (includes all of Grays Rd to Rt. 506 and Mutual Estates (2 & 4)

Car # _____ Pine Trailer Park & both sides of Rt. 506 (Sixes Rd) to Rt. 508 (Adelina Rd.) (including Hutchins Rd and Harris Rd). (4)

Car # _____ Residences on South sides of Rt. 508 from Rt. 506 to Prison Pt (includes Old Adelina Rd, Maxes Hollow R, & Honey Cove). (4)

Siren 8

Car # _____ Pine Trailer Park & both sides of Rt. 506 (Sixes Rd) to Rt. 508 (Adelina Rd.) (including Hutchins Rd and Harris Rd). (4)

Car # _____ Residences on Hance Rd, Crane Rd, Williams Wharf Rd, and Laveille Rd. (4)

Siren 9

Car # _____ Residences on Hance Rd, Crane Rd, Williams Wharf Rd, and Laveille Rd. (4)

Siren 10

Car # _____ Both sides of Broomes Island Rd from Williams Wharf Rd. to the end. Includes Parker Wharf Rd., Ramsey Hodges and all of Broomes Island. (2 & 4)

Siren 15

Car # _____ Both sides of Parran Rd from Rt. 2/4 to Mackall Rd including St. Leonard Shores and Lloyd Bowen Rd. from Mackall to end. (2)

Car # _____ Both sides of Mackall Rd. from Parran to end. (2)

Car # _____ Both sides of Broomes Island Rd from Williams Wharf Rd. to the end. Includes Parker Wharf Rd., Ramsey Hodges and all of Broomes Island. (2 & 4)

Siren 16

Car # _____ Both sides of Broomes Island Rd. from Mackall Rd. to Williams Wharf Rd.). (excludes Hance and Williams Wharf Rd. (2 & 4)

Car # _____ Both sides of Broomes Island Rd from Williams Wharf Rd. to the end. Includes Parker Wharf Rd., Ramsey Hodges and all of Broomes Island. (2 & 4)

Car # _____ Residences on Hance Rd, Crane Rd, Williams Wharf Rd, and Laveille Rd. (4)

Siren 17

Car # _____ Residences on Hance Rd, Crane Rd, Williams Wharf Rd, and Laveille Rd. (4)

Siren 18

Car # _____ Residences North side of Broomes Island Rd. from Rt. 2/4 to Mackall Rd. (includes all of Grays Rd to Rt. 506 and Mutual Estates (2 & 4)

Car # _____ West Side of Rt. 2/4, South from Prince Frederick. to Rt. 264 (Broomes Island Road). (includes Whispering Woods and Mountain Trail) (4)

Car # _____ Pine Trailer Park & both sides of Rt. 506 (Sixes Rd) to Rt. 508 (Adelina Rd.) (including Hutchins Rd and Harris Rd). (4)

Car # _____ Residences on South sides of Rt. 508 from Rt. 506 to Prison Pt (includes Old Adelina Rd, Maxes Hollow R, & Honey Cove). (4)

Siren 19

Car # _____ Residences North side of Broomes Island Rd. from Rt. 2/4 to Mackall Rd. (includes all of Grays Rd to Rt. 506 and Mutual Estates (2 & 4)

Car # _____ Residences South side of Broomes Island Rd. from Rt. 2/4 to Mackall Rd. (includes Chippenwood and all of Ball Rd. to Rt. 2/4.) (2 & 4)

Car # _____ West Side of Rt. 2/4, South from Prince Frederick to Rt. 264 (Broomes Island Road). (includes Whispering Woods and Mountain Trail) (4)

Siren 20

Car # _____ Both sides of St. Leonard Rd. from Rt. 264 intersection South to end near Parran Road (includes St. Leonard). (excludes Scientist Cliffs, Western Shores and Long Beach / Calvert Beach) (1 & 2)

Car # _____ Western Shores subdivision, residences on the North side of Western Shore Blvd. (2)

Car # _____ Western Shores subdivision, residences on South side of Western Shore Blvd. (2)

Car # _____ Both sides of Governor's Run R. including Kenwood Beach subdivision in its entirety. (2)

Siren 21

Car # _____ Residences South side of Broomes Island Rd. from Rt. 2/4 to Mackall Rd. (includes Chippenwood and all of Ball Rd. to Rt. 2/4.) (2 & 4)

Car # _____ Residences North side of Broomes Island Rd. from Rt. 2/4 to Mackall Rd. (includes all of Grays Rd to Rt. 506 and Mutual Estates (2 & 4)

Car # _____ From Broomes Island Rd. - Both sides of Mackall Rd. to Dorothy Johnson Ct. (2)

Car # _____ Both sides of Broomes Island Rd. from Mackall Rd. to Williams Wharf Rd.). (excludes Hance and Williams Wharf Rd. (2 & 4)

Car # _____ Both sides of Broomes Island Rd from Williams Wharf Rd. to the end. Includes Parker Wharf Rd., Ramsey Hodges and all of Broomes Island. (2 & 4)

Car # _____ Residences on Hance Rd, Crane Rd, Williams Wharf Rd, and Laveille Rd. (4)

Siren 22

Car # _____ Both sides of St. Leonard Rd. from Rt. 264 intersection South to end near Parran Road (includes St. Leonard). (excludes Scientist Cliffs, Western Shores and Long Beach / Calvert Beach) (1 & 2)

Car # _____ Long Beach area residences on the South side of Long Beach Rd. (1)

Car # _____ Long Beach area residences on the North side of Long Beach Rd. to South side of Flag Harbor Blvd. (1)

Car # _____ Residences on both side of Calvert Beach Rd. to Flag Harbor including Bay View Ave. (1 & 3)

Car # _____ Western Shores subdivision, residences on South side of Western Shore Blvd. (2)

Car # _____ Residences South side of Broomes Island Rd. from Rt. 2 to Mackall Rd. (includes Chippenwood and all of Ball Rd. to Rt. 2/4.) (2 & 4)

Siren 23

Car # _____ From Broomes Island Rd. – Both sides of Mackall Rd. to Dorothy Johnson Ct. (2)

Car # _____ From Dorothy Johnson Ct. – Both sides of Mackall Rd. to Parran Rd.(2)

Car # _____ Both sides of Parran Rd from Rt. 2/4 to Mackall Rd including St. Leonard Shores and Lloyd Bowen Rd. from Mackall to end. (2)

Car # _____ Both sides of Mackall Rd. from Parran to end. (2)

Siren 24

Car # _____ Both sides of Parran Rd from Rt. 2/4 to Mackall Rd including St. Leonard Shores and Lloyd Bowen Rd. from Mackall to end. (2)

Car # _____ Both sides of Mackall Rd. from Parran to end. (2)

Siren 25

Car # _____ Both sides of Mackall Rd. from Parran to end. (2)

Siren 26

Car # _____ Residences on both sides of Sollers Wharf Rd, from McQueen Rd, South to end. (except Mill Bridge) (3)

Car # _____ Both sides of Mill Bridge Rd including Turner Rd and Preston Pt. (3)

Siren 27

Car # _____ Notification in the White Sands subdivision North of White Sands Dr. (1)

Car # _____ Notification in the White Sands subdivision South of White Sands Dr. (1)

Car # _____ Both sides of Saw Mill Rd. and Planters Wharf from Rt. 2/4 South to the Power Plant. (1 & 2)

Car # _____ Both sides of Parran Rd from Rt. 2/4 to Mackall Rd including St. Leonard Shores and Lloyd Bowen Rd. from Mackall to end. (2)

Car # _____ Both sides of Mackall Rd. from Parran to end. (2)

Siren 28

Car # _____ Both sides of St. Leonard Rd. from Rt. 264 intersection South to end near Parran Road (includes St. Leonard). (excludes Scientist Cliffs, Western Shores and Long Beach / Calvert Beach) (1 & 2)

Car # _____ Long Beach area residences on the South side of Long Beach Rd. (1)

Car # _____ Long Beach area residences on the North side of Long Beach Rd. to South side of Flag Harbor Blvd. (1)

Car # _____ Long Beach area, residences on North side of Flag Harbor (includes Long Beach Rd from Calvert Beach Rd). (1 & 2)

Car # _____ Residences on both side of Calvert Beach Rd. to Flag Harbor including Bay View Ave. (1 & 3)

Siren 29

Car # _____ Residents on the both sides of Nursery Rd. from the entrance to the Power Plant South to end. H.G.Trueman Rd. from Rt. 2/4 to and including Camp Canoy Road. (1)

Car # _____ Notification in the White Sands subdivision North of White Sands Dr. (1)

Car # _____ Notification in the White Sands subdivision South of White Sands Dr. (1)

Car # _____ Both sides of Saw Mill Rd. and Planters Wharf from Rt. 2/4 South to the Power Plant. (1 & 2)

Siren 30

Car # _____ Residents on the both sides of Nursery Rd. from the entrance to the Power Plant South to end. H.G.Trueman Rd. from Rt. 2/4 to and including Camp Canoy Road. (1)

Car # _____ Residences on both sides of Sollers Wharf Rd, from McQueen Rd, south to end. (except Mill Bridge) (3)

Car # _____ Both sides of Mill Bridge Rd including Turner Rd and Preston Pt. (3)

Car # _____ Residences on both side of H.G. Truman Rd. from Camp Conoy Rd. to Cove Point Rd. (1 & 3)

Car # _____ Both sides of Pardoe Rd., Sollers Wharf Rd South to and including McQueen Rd. (1 & 3)

Siren 31

Car # _____ Residences on both side of H.G. Truman Rd. from Camp Conoy Rd. to Cove Point Rd. (1 & 3)

Car # _____ Residences on both sides of H.G. Truman from Cove Point to Rousby Hall . (3)

Car # _____ Residences on the North side of Rt. 497. (3)

Car # _____ Residences on the South right side of Rt. 497. (3)

Car # _____ Residences on both sides of Little Cove Point Rd. and Park Chesapeake (exclude Ranch Club) (3)

Car # _____ Residents on both sides from Thunderbird and Catalina to Town Center Blvd. (Texaco gate). (3)

Car # _____ Both sides Gunsmoke Trail from Town Center Blvd. to Tomahawk to Little Cove Point Rd. (3)

Siren 32

Car # _____ Residences on the North side of Rt. 497. (3)

Car # _____ Residences on the South right side of Rt. 497. (3)

Car # _____ Residences on both sides of Little Cove Point Rd. and Park Chesapeake (exclude Ranch Club) (3)

Car # _____ Both sides Gunsmoke Trail from Town Center Blvd. to Tomahawk to Little Cove Point Rd. (3)

Siren 33

Car # _____ Residents on the both sides of Nursery Rd. from the entrance to the Power Plant South to end. H.G.Trueman Rd. from Rt. 2/4 to and including Camp Canoy Road. (1)

Car # _____ Residences on both side of H.G. Truman Rd. from Camp Conoy Rd. to Cove Point Rd. (1 & 3)

Siren 52

Car # _____ Residences on both sides of Dowell Rd. from Rt. 2/4 to end. (3)

Car # _____ Solomon's Island residences from Lore St. South. (3)

Car # _____ H.G. Truman from Dowell Rd. to Lore Rd. Solomons Island residences from Lore St. South. (3)

Car # _____ Residences on both sides of Olivet Rd beginning at the intersection of Rt. 760 and Olivet Rd. (3)

Car # _____ Drum Point. (3)

Car # _____ From Clubhouse Dr., North side of Rt. 760 to end. (3)

Car # _____ From Clubhouse Dr., South side of Rt. 760 to end (except Drum Point). (3)

Siren 53

Car # _____ Residences on both sides of Dowell Rd. from Rt. 2/4 to end. (3)

Car # _____ Solomon's Island residences from Lore St. South. (3)

Car # _____ H.G. Truman from Dowell Rd. to Lore Rd. Solomon's Island residences from Lore St. South. (3)

Car # _____ Residences on both sides of Olivet Rd beginning at the intersection of Rt. 760 and Olivet Rd. (3)

Car # _____ Both sides of Coster Rd from Rt. 2/4 to end of road (includes Bafford Rd, Cove Ct, and Crab House Rd). (3)

Car # _____ From Clubhouse Dr., North side of Rt. 760 to end. (3)

Car # _____ From Clubhouse Dr., South side of Rt. 760 to end (except Drum Point). (3)

Siren 54

Car # _____ Residences on both sides of H.G. Truman from Rousby Hall to Dowell Rd. (3)

Car # _____ Both sides of Coster Rd from Rt. 2/4 to end of road (includes Bafford Rd, Cove Ct, and Crab House Rd). (3)

Car # _____ Both sides of Mill Bridge Rd including Turner Rd and Preston Pt. (3)

Siren 55

Car # _____ Residences on both sides of Dowell Rd. from Rt. 2/4 to end. (3)

Car # _____ Residences on both sides of H.G. Truman from Rousby Hall to Dowell Rd. (3)

Car # _____ Residences on both sides of Olivet Rd beginning at the intersection of Rt. 760 and Olivet Rd. (3)

Car # _____ From H.G Truman – Rousby Hall to Clubhouse Dr.. (3)

Car # _____ From Clubhouse Dr., North side of Rt. 760 to end. (3)

Car # _____ From Clubhouse Dr., South side of Rt. 760 to end (except Drum Point). (3)

Car # _____ Residents on both sides from Thunderbird and Catalina to Town Center Blvd. (Texaco gate). (3)

Car # _____ Clubhouse / Catalina, Left on Catalina, Hawthorne, Cornstalk, Council Bluffs, Dogwood Court, Towanda, Coyotte, Cactus, Yuma, Sage Brush to Thunderbird. (3)

Siren 56

Car # _____ Residences on both sides of Olivet Rd beginning at the intersection of Rt. 760 and Olivet Rd. (3)

Car # _____ From H.G Truman – Rousby Hall to Clubhouse Dr.. (3)

Car # _____ From Clubhouse Dr., North side of Rt. 760 to end. (3)

Car # _____ From Clubhouse Dr., South side of Rt. 760 to end (except Drum Point). (3)

Car # _____ Drum Point. (3)

Car # _____ Clubhouse / Catalina, Left on Catalina, Hawthorne, Cornstalk, Council Bluffs, Dogwood Court, Towanda, Coyotte, Cactus, Yuma, Sage Brush to Thunderbird. (3)

Siren 57

Car # _____ Residences on both sides of Little Cove Point Rd. and Park Chesapeake (exclude Ranch Club) (3)

Car # _____ From H.G Truman – Rousby Hall to Clubhouse Dr.. (3)

Car # _____ Catalina to Clubhouse, Right on Catalina and all side streets. Clubhouse Dr. to bay. (3)

Car # _____ Clubhouse / Catalina, Left on Catalina, Hawthorne, Cornstalk, Council Bluffs, Dogwood Court, Towanda, Coyotte, Cactus, Yuma, Sage Brush to Thunderbird. (3)

Car # _____ Residents on both sides from Thunderbird and Catalina to Town Center Blvd. (Texaco gate). (3)

Car # _____ Both sides from Big Sandy Run and Tomahawk - to Catalina, Left on Catalina to Bay. (3)

Car # _____ From Catalina at Thunderbird North Catalina. (3)

Car # _____ From Catalina at Golden West to Bay. (3)

Siren 58

Car # _____ From Clubhouse Dr., North side of Rt. 760 to end. (3)

Car # _____ From Clubhouse Dr., South side of Rt. 760 to end (except Drum Point). (3)

Car # _____ Drum Point. (3)

Car # _____ Clubhouse / Catalina, Left on Catalina, Hawthorne, Cornstalk, Council Bluffs, Dogwood Court, Towanda, Coyotte, Cactus, Yuma, Sage Brush to Thunderbird. (3)

Car # _____ Both sides from Big Sandy Run and Tomahawk - to Catalina, Left on Catalina to Bay. (3)

Car # _____ From Catalina at Golden West to Bay. (3)

Siren 59

Car # _____ Residences on both sides of Little Cove Point Rd. and Park Chesapeake (exclude Ranch Club) (3)

Car # _____ Catalina to Clubhouse, Right on Catalina and all side streets. Clubhouse Dr. to Bay. (3)

Car # _____ Both sides from Big Sandy Run and Tomahawk - to Catalina, Left on Catalina to Bay. (3)

Car # _____ From Catalina at Thunderbird North Catalina. (3)

Car # _____ From Catalina at Golden West to Bay. (3)

Siren 60

Car # _____ Residences on both sides of H.G. Truman from Cove Point to Rousby Hall . (3)

Car # _____ Residences on the North side of Rt. 497. (3)

Car # _____ Residences on the South right side of Rt. 497. (3)

Car # _____ Residences on both sides of Little Cove Point Rd. and Park Chesapeake (exclude Ranch Club) (3)

Car # _____ Catalina to Clubhouse, Right on Catalina and all side streets. Clubhouse Dr. to Bay.. (3)

Car # _____ Residents on both sides from Thunderbird and Catalina to Town Center Blvd. (Texaco gate). (3)

Car # _____ Both sides Gunsmoke Trail from Town Center Blvd. to Tomahawk to Little Cove Point Rd. (3)

Car # _____ Both sides from Big Sandy Run and Tomahawk - to Catalina, Left on Catalina to Bay. (3)

Car # _____ From Catalina at Thunderbird North Catalina. (3)

Car # _____ From Catalina at Golden West to Bay. (3)

Siren 61

Car # _____ Residences on both sides of H.G. Truman from Cove Point to Rousby Hall . (3)

Car # _____ Residences on both sides of H.G. Truman from Rousby Hall to Dowell Rd. (3)

Car # _____ Both sides of Mill Bridge Rd including Turner Rd and Preston Pt. (3)

Car # _____ Both sides of Coster Rd from Rt. 2/4 to end of road (includes Bafford Rd, Cove Ct, and Crab House Rd). (3)

Siren 62

Car # _____ Residents on the both sides of Nursery Rd. from the entrance to the Power Plant South to end. H.G.Trueman Rd. from Rt. 2/4 to and including Camp Canoy Road. (1)

Car # _____ Residences on both side of H.G. Truman Rd. from Camp Conoy Rd. to Cove Point Rd. (1 & 3)

Car # _____ Residences on both sides of H.G. Truman from Cove Point to Rousby Hall . (3)

Car # _____ Residences on the North side of Rt. 497. (3)

Car # _____ Residences on the South right side of Rt. 497. (3)

Siren 63

Car # _____ Both sides of St. Leonard Rd. from Rt. 264 intersection South to end near Parran Road (includes St. Leonard). (excludes Scientist Cliffs, Western Shores and Long Beach / Calvert Beach) (1 & 2)

Car # _____ Residents on the both sides of Nursery Rd. from the entrance to the Power Plant South to end. H.G.Trueman Rd. from Rt. 2/4 to and including Camp Canoy Road. (1)

Car # _____ Long Beach area residences on the South side of Long Beach Rd. (1)

Car # _____ Long Beach area residences on the North side of Long Beach Rd. to South side of Flag Harbor Blvd. (1)

Car # _____ Both sides of Saw Mill Rd. and Planters Wharf from Rt. 2-4 South to the Power Plant. (1 & 2)

Siren 64

Car # _____ Both sides of St. Leonard Rd. from Rt. 264 intersection South to end near Parran Road (includes St. Leonard). (excludes Scientist Cliffs, Western Shores and Long Beach / Calvert Beach) (1 & 2)

Car # _____ Both sides of Saw Mill Rd. and Planters Wharf from Rt. 2/4 South to the Power Plant. (1 & 2)

Car # _____ Both sides of Parran Rd from Rt. 2/4 to Mackall Rd including St. Leonard Shores and Lloyd Bowen Rd. from Mackall to end. (2)

Siren 65

Car # _____ Residents on the both sides of Nursery Rd. from the entrance to the Power Plant South to end. H.G.Trueman Rd. from Rt. 2/4 to and including Camp Canoy Road. (1)

Car # _____ Notification in the White Sands subdivision North of White Sands Dr. (1)

Car # _____ Residences on both sides of Sollers Wharf Rd, from McQueen Rd, South to end. (except Mill Bridge) (3)

Car # _____ Both sides of Pardoe Rd., Sollers Wharf Rd South to and including McQueen Rd. (1 & 3)

Siren 66

Car # _____ Both sides of St. Leonard Rd. from Rt. 264 intersection South to end near Parran Road (includes St. Leonard). (excludes Scientist Cliffs, Western Shores and Long Beach / Calvert Beach) (1 & 2)

Car # _____ Residences North side of Broomes Island Rd. from Rt. 2/4 to Mackall Rd. (includes all of Grays Rd to Rt. 506 and Mutual Estates (2 & 4)

Car # _____ Residences South side of Broomes Island Rd. from Rt. 2/4 to Mackall Rd. (includes Chippenwood and all of Ball Rd. to Rt. 2/4.) (2 & 4)

Car # _____ Western Shores subdivision, residences on the North side of Western Shore Blvd. (2)

Car # _____ Western Shores subdivision, residences on South side of Western Shore Blvd. (2)

Car # _____ Both sides of Governor's Run R. including Kenwood Beach subdivision in its entirety. (2)

Siren 67

Car # _____ Both sides of Broomes Island Rd. from Mackall Rd. to Williams Wharf Rd.). (excludes Hance and Williams Wharf Rd. (2 & 4)

Car # _____ Residences North side of Broomes Island Rd. from Rt. 2/4 to Mackall Rd. (includes all of Grays Rd to Rt. 506 and Mutual Estates (4 & 2)

Car # _____ Residences South side of Broomes Island Rd. from Rt. 2 to Mackall Rd. (includes Chippenwood and all of Ball Rd. to Rt. 2/4.) (4 & 2)

Car # _____ From Broomes Island Rd. - Both sides of Mackall Rd. to Dorothy Johnson Ct. (2)

Car # _____ Both sides of Broomes Island Rd from Williams Wharf Rd. to the end. Includes Parker Wharf Rd., Ramsey Hodges and all of Broomes Island. (2 & 4)

Car # _____ Residences on Hance Rd, Crane Rd, Williams Wharf Rd, and Laveille Rd. (4)

Siren 68

Car # _____ Residences on both sides of Dowell Rd. from Rt. 2/4 to end. (3)

Car # _____ Solomon's Island residences from Lore St. South. (3)

Car # _____ From Clubhouse Dr., North side of Rt. 760 to end. (3)

Car # _____ From Clubhouse Dr., South side of Rt. 760 to end (except Drum Point). (3)

Car # _____ Drum Point. (3)

Siren 69

Car # _____ From Clubhouse Dr., North side of Rt. 760 to end. (3)

Car # _____ From Clubhouse Dr., South side of Rt. 760 to end (except Drum Point). (3)

Car # _____ Drum Point. (3)

Siren 70

Car # _____ West Side of Rt. 2/4, South from Prince Frederick to Rt. 264 (Broomes Island Road). (includes Whispering Woods and Mountain Trail) (4)

Car # _____ All of German Chapel Road and residences on Rt. 765 including Calvertowne from Old Field Lane South to Rt. 2/4. (4 & 5)

Siren 71

Car # _____ Dares Beach - Residences south of MD Ave (includes Goldstein Rd) and Dares Beach - Residences north of MD Ave. (5)

Siren 72

Car # _____ Both sides of Broomes Island Rd from Williams Wharf Rd. to the end. Includes Parker Wharf Rd., Ramsey Hodges and all of Broomes Island. (2 & 4)

TRANSPORTATION

If any people in your notification sectors desire to evacuate and have absolutely no one to call who can provide shelter or transportation outside the danger zone, they may obtain transportation from County Public Transportation and/or School Buses, being dispatched throughout the area.

TAB B

CALVERT COUNTY TRAFFIC AND ACCESS CONTROL POINTS

2 Mile

1. Rt. 2 & 4 at Rt. 765 (St. Leonard Rd.) south of Parran Road.
2. Rt. 2 & 4 at Rt. 765 (H.G. Truman Rd.) north of Southern Middle School.
3. *Rt 2 & 4 at Plant Access Road

5 Mile

4. Sollars Wharf Road and Mill Bridge Road.
5. Broomes Island Road and Rt. 2 & 4.
6. Ball Road and Broomes Island Road.
7. Mackall Road and Broomes Island Road.
8. Williams Wharf Road and Broomes Island Road.
9. Rt. 765 (H.G. Truman Rd.) and Olivet Road.
10. Rt. 2 & 4 and Olivet Road Exit.
11. Rt. 2 & 4 and Coster/Mill Bridge Road.
12. * Rt. 2 & 4 at Parran Rd.

10 Mile

13. Rt. 231 and Rt. 2 & 4.
14. Rt. 765 (Main Street) and Rt. 2 & 4 (at Ken Mar Liquors).
15. Rt. 231 and German Chapel Rd.
16. Adelina Road and Sixes Road.
17. Rt. 2 & 4 at Solomon's Access Road.
18. *Rt 2 & 4 at Dares Beach Rd
19. *Rt. 2 & 4 at Fox Run Road
20. *Rt. 2 & 4 at Trasker Blvd.

21. *Rt. 2 & 4 at Stockley Road

* Alternate recommended Traffic Control Points

ATTACHMENT #7

CALVERT COUNTY

DEPARTMENT OF PUBLIC SAFETY STANDARD OPERATING PROCEDURE

1.0 RESPONSIBILITIES

The responsibilities of the Department of Public Safety are outlined in Calvert County Radiological Emergency Plan. The Department of Public Safety will be the support agency for notification and communications, command and coordination, radiation exposure control, public information, transportation for victims of radiological accidents and fire and rescue officer.

2.0 COMMAND AND COORDINATION

The Director of Public Safety or designee, coordinates all emergency response operations. The Director, Public Safety is responsible for ensuring that the agency is properly staffed and sufficient resources available for 24-hour operations for a protracted period.

2.1 Normal procedures will be utilized for obtaining necessary resources. When these sources become exhausted, request for additional resources will be made to the EM Director or designee.

2.2 A record of activities shall be kept during the duration of the emergency. A record of man-hours expended and other costs shall be maintained and submitted to the EM Specialist at the end of the Emergency. Receipts will be provided.

3.0 IMPLEMENTATION

This section identifies the pre-planned response to each emergency class declared by CCNPP.

3.1 **Unusual Event** - No response required.

3.2 **Alert**

3.2.1 Upon notification by the Calvert County Emergency Management Director or his designee of an alert at the CCNPP, the Director of Public Safety will report to the Calvert County EOC.

3.3 **Site Area Emergency** - Same as for Alert.

3.4 **General Emergency** - Same as for Site Area Emergency.

4.0 NOTIFICATION AND COMMUNICATION

4.1 **Initial Notification**

Upon notification of an emergency:

4.1.1 Notify the Director, Department of Public Safety.

4.1.2 Verify the authenticity and content of the message if caller is unknown by calling the County EOC or Calvert Control Center.

4.1.3 The Director will request all support requirements, including personnel, from the County Emergency Management Director or designee.

4.2 **Communications**

4.2.1 Communications with agency personnel will be by routine channels.

4.2.2 Communications with the EOC will be commercial telephone, and radio communications.

4.2.3 Communications between the Calvert Control and ambulance vehicles will be by radio communications.

5.0 PROTECTIVE ACTIONS

- CAUTION -

BEFORE DISPATCHING ANY PERSONNEL, CHECK WITH THE RO ON THE STATUS OF THE EMERGENCY. IF RADIATION HAS BEEN RELEASED, MAKE SURE ALL EMERGENCY WORKERS ARE BRIEFED ON EXPECTED DOSE RATES AND STAY TIMES. MAKE SURE EACH EMERGENCY WORKER IS ISSUED DIRECT READING DOSIMETERS, A TLD, RADIATION EXPOSURE RECORD, AND THAT EACH TEAM HAS RADIO COMMUNICATIONS TO THE COUNTY COMMUNICATIONS CENTER.

5.1 Certain areas surrounding the CCNPP may be exposed to radioactivity as the result of the accident. This radioactivity may be in the form of clouds, puffs or plumes, the duration of which cannot be determined in advance. Generally, three types of releases may occur:

5.1.1 Noble Gases (Xenon, Krypton). This is the most probable release with a greater chance of xenon than krypton.

5.1.2 Next in order of probability are releases of radioiodine which can enter the thyroid.

5.1.3 The least in order of probability are releases of particulate matter.

5.2 Personnel of the Calvert County Emergency Medical Services will be informed to report to assembly area at Prince Frederick Volunteer Fire Department.

5.3 Calvert County Emergency Medical Services will be briefed and may be required to enter controlled areas wherein radioactivity exists or may potentially exist in order to perform emergency response. TAB A provides procedures for the protection of:

5.3.1 EMS personnel (emergency workers).

5.3.2 The patients they transport and care for while being transported.

5.4 The Department of Public Safety will support the functions of Emergency Management and the County Health Officer for emergency personnel radiation exposure, personnel exposure control, monitoring and decontamination of personnel as requested.

6.0 PUBLIC INFORMATION

The Director Public Safety will provide information on Emergency Medical Services and Fire and Rescue services to the Emergency PIO.

7.0 EXERCISES AND DRILLS

The Department of Public Safety will participate in exercises and drills at least once every two years.

8.0 TRAINING

The Department of Public Safety personnel will attend training programs provided by State and local governments and private agencies to prepare them in dealing with emergencies at CCNPP.

9.0 SOP MAINTENANCE

The Director of Public Safety has overall responsibility to review and update this SOP at least annually. Telephone lists will be reviewed and updated quarterly.

TAB A

1.0 PROCEDURES GUIDANCE

1.1 EMS Personnel:

1.1.1 If required to go into a controlled area, each member of a squad must be equipped with one dosimeter (one 0-200 or 0-500 mR or 0-20R) or EPD and permanent dosimeter (TLD) KI and Radiation Exposure record (see Attachment 4 of the Calvert County SOP for details).

1.1.2 The squad must have radio or cell phone communications with Calvert Control. The ambulance vehicle radio is adequate for this purpose.

1.1.3 When the mission is completed, each squad must report to the emergency worker decontamination center on Stafford Road to be monitored for contamination. If contamination occurred to any squad member or the vehicle, decontamination procedures will be followed. (see Attachment #4 for details).

1.2 Patients

1.2.1 If from the CCNPP, the Plant will inform the squad if their patients are contaminated or have been decontaminated. It is the responsibility of the Plant to decontaminate their injured personnel if at all possible.

1.2.2 Off-Site Patients: Each squad will have available to it, radiological monitoring capability that will check a patient to determine if he or she is contaminated. Monitoring capabilities may be requested from the county Health Department or CCNPP. If the degree of contamination is at such a level that decontamination is warranted, follow procedures outlined in Attachment #4 as much as possible, depending upon the circumstances, the severity of the injury and the need for speed. Common sense should be employed at all times. Inform the receiving hospital upon arrival if a patient is contaminated or suspected of being so. (see Attachment #4 for Personnel Exposure Control).

TAB B

FIRE AND RESCUE SERVICE

1.0 RESPONSIBILITIES

The Fire and Rescue Service is the key agency for Emergency Medical Services Operation. The Fire and Rescue Service is a support agency for take shelter, evacuation, radiation exposure control, and transportation for victims of radiological accidents.

2.0 COMMAND AND COORDINATION

2.1 The Emergency Management Director or designee is in charge of the emergency response.

2.2 Normal procedures will be utilized for obtaining necessary resources. When these sources become exhausted, requests for additional resources will be made to the Emergency Management Director or designee.

3.0 PROTECTIVE ACTIONS

- CAUTION -

BEFORE DISPATCHING ANY PERSONNEL, CHECK WITH THE RO ON THE STATUS OF THE EMERGENCY. IF RADIATION HAS BEEN RELEASED, MAKE SURE ALL EMERGENCY WORKERS ARE BRIEFED ON EXPECTED DOSE RATES AND STAY TIMES. MAKE SURE EACH EMERGENCY WORKER IS ISSUED DIRECT READING DOSIMETERS, A TLD, RADIATION EXPOSURE RECORD, AND THAT EACH TEAM HAS RADIO COMMUNICATIONS TO THE COUNTY COMMUNICATIONS CENTER.

3.1 Provide public notification through means of fixed and mobile public address systems.

4.0 PARALLEL ACTIONS

4.1 Provide exposure control by monitoring evacuees and emergency workers.

4.2 Set up and maintain decontamination centers for decontamination of evacuees, emergency workers, equipment and materials in accordance with Radiation Exposure Control SOP (Attachment #4).

4.3 Provide routine fire and rescue response and emergency medical services, as necessary.

TAB C

COUNTY PUBLIC TRANSPORTATION

1.0 RESPONSIBILITIES

Calvert County Public Transportation (CCPT) is a support agency for evacuation and return.

1.1 CCPT supports the Sheriff's Department, which is the key agency for evacuation, by providing transportation for evacuees.

1.2 CCPT supports the County EM, which is the key agency for return, by providing transportation for reentry.

2.0 COMMAND AND COORDINATION

2.1 The CCPT Coordinator, or his designee, is in charge of Public Transportation's emergency response operations.

2.2 Normal procedures will be utilized for obtaining necessary resources. When these sources become exhausted, requests for additional resources will be made to the Emergency Management Director or designee.

2.3 The CCPT Coordinator is responsible for ensuring the 24-hour availability of Public Transportation bus drivers.

2.4 CCPT will coordinate its evacuation operations with the Board of Education Transportation Supervisor.

2.5 A record of activities shall be kept during the emergency. A record of man-hours expended and other costs shall be maintained and submitted to the EM Specialist at the end of the emergency. Receipts will be provided.

3.0 IMPLEMENTATION

3.1 Unusual Event - No response required.

3.2 Alert

3.2.1 The EM Director or designee will notify the CCPT Coordinator to report to the EOC.

3.2.2 The CCPT Coordinator, or his designee, will notify the CCPT bus drivers to alert them to the emergency situation and request drivers to standby for further instructions.

3.3 Site Area Emergency

3.3.1 The CCPT Coordinator, or his designee, will notify CCPT bus drivers to report to designated reception centers to obtain instructions.

3.3.2 All normal CCPT bus routing and operations are terminated. All buses are made available for impending evacuations.

3.3.3 The CCPT Coordinator, or his designee, will coordinate with the Board of Education Transportation Supervisor in the assembling of individual packets of instruction to be given to bus drivers at assembly area. The packets will contain:

- Maps depicting affected areas(s).
- Zones with bus routes through the evacuation area(s)
- White cards for placement in window with route information
- List of Mass Care centers and Reception Center(s)

3.3.4 The CCPT Coordinator, or his designee, will also coordinate with the Board of Education Transportation Supervisor to designate areas in certain subdivisions and locales for citizen pickup.

3.3.5 The CCPT Coordinator, or his designee, will coordinate with the Board of Education Transportation Supervisor, the Sheriff's Department, the Health Department and the EM Director or designee to provide necessary assistance in the evacuation of non-ambulatory evacuees.

3.4 General Emergency

3.4.1 Same as for Site Area Emergency.

3.4.2 Implement evacuation measures as directed by the Sheriff's Department or EM Director or designee.

4.0 NOTIFICATION AND COMMUNICATION

4.1 Initial Notification

Upon notification of an emergency:

4.1.1 Verify the authenticity and content of the message if caller is unknown by return call to Calvert Emergency Management.

4.1.2 As required by the emergency class, the CCPT Coordinator or designee will initiate the fan-out notification to CCPT personnel.

4.2 Communications

4.2.1 Communications with the County EOC and CCPT personnel will be by commercial telephone.

4.2.2 Communications with CCPT buses will be by radio.

5.0 PROTECTIVE ACTIONS

- CAUTION -

BEFORE DISPATCHING ANY PERSONNEL CHECK WITH THE RO ON THE STATUS OF THE EMERGENCY. IF RADIATION HAS BEEN RELEASED, MAKE SURE ALL BUS DRIVERS ARE BRIEFED ON EXPECTED DOSE RATES AND STAY TIME. MAKE SURE EACH EMERGENCY WORKER IS ISSUED DIRECT READING DOSIMETER, A TLD, RADIATION EXPOSURE RECORD, KI AND THAT EACH TEAM HAS RADIO COMMUNICATIONS TO THE COUNTY COMMUNICATIONS CENTER.

5.1 Evacuation

5.1.1 If the situation escalates to a General Emergency and evacuation is imminent, information packets for those areas to be evacuated (based on information provided by the Emergency Management Director of his designee), and Dosimeters will be distributed to the bus drivers at the bus assembly area(s).

5.1.2 Upon notification from the County Emergency Management Director or designee that an evacuation has been ordered, the assigned buses for those designated areas will be dispatched. Vehicles with lifts for handicapped will be dispatched, if necessary.

5.1.3 Evacuees will be transported to predetermined reception centers.

5.1.4 Evacuees will be transported to assigned shelters after registration is completed.

5.1.5 When assigned mission is completed, drivers will report to the designated assembly point for further instructions and personal dosimeter readings checked and recorded. Personnel and equipment will be checked for contamination and decontaminated, if necessary.

6.0 PARALLEL ACTIONS

6.1 Return

Bus transportation will be provided as needed to return evacuees to their homes. The Emergency Management Division will provide directions on when and where evacuees may be returned.

7.0 PUBLIC INFORMATION

All media requests for information must be forwarded to the Emergency Public Information Officer (PIO). Any assistance requested by the Emergency PIO will be provided.

8.0 TRAINING

The CCPT Coordinator will assure that assigned personnel avail themselves of required training as arranged by the EM Director or designee.

9.0 EXERCISES

The CCPT will cooperate with the EM Director or designee by participating in scheduled drills and exercises.

10.0 SOP MAINTENANCE

The CCPT Coordinator will review for possible revision this SOP at a minimum of once annually. Telephone lists will be reviewed for possible revision at least once quarterly.

ATTACHMENT #8

CALVERT COUNTY
HEALTH DEPARTMENT STANDARD OPERATING PROCEDURE

1.0 RESPONSIBILITIES

The responsibilities of the Calvert County Health Department are outlined in the Calvert County Radiological Emergency Plan. The Health Department is a lead agency for thyroid protection and a support agency for accident assessment, food, water, milk, livestock feed control, radiation exposure control, mass care, and public information.

2.0 COMMAND AND COORDINATION

2.1 The County Health Officer or alternate, the Director, Environmental Health, is in charge of the emergency response operations. The County Health Officer is responsible for ensuring that the agency is properly staffed and sufficient resources available for 24-hour operations for a protracted period.

2.2 Normal procedures will be utilized for obtaining necessary resources. When these sources become exhausted, request for additional resources will be made to the EM Director or designee through the County Health Department EOC representative.

2.3 A record of activities shall be kept during the emergency. A record of man-hours expended and other cost shall be maintained and submitted to the EM Specialist at the end of the emergency. Receipts for all expenditures will be provided.

2.4 All County Health personnel who reside within the 10-mile radius plume zone will insure, before reporting to duty, that their families fully understand what actions they may have to take when directed by the county government and that they are capable of doing so.

3.0 IMPLEMENTATION

This section identifies the preplanned response to each emergency class declared by CCNPP.

3.1 **Unusual Event** - No response required.

3.2 **Alert**

3.2.1 The Emergency Management Director or designee will notify EOC representative (County Health Officer) to report to the EOC.

3.2.2 The County Health Officer, or alternate, will notify all other personnel of emergency.

3.3 **Site Area Emergency** - Same as Alert.

3.4 **General Emergency** - Same as for Site Area Emergency.

4.0 NOTIFICATION AND COMMUNICATION

4.1 Initial Notification

Upon notification of an emergency by the County Emergency Operating Center.

4.1.1 Verify the authenticity and content of the message by return call to the official who made the notification call or the County EOC if the caller is unknown.

4.1.2 Notify the County Health Officer/or designee.

4.1.3 At the direction of County Health Officer, initiate a call up of all off-duty personnel.

4.2 Communications

4.2.1 Primary communications with agency personnel will by telephone. Department radio communications will be the secondary means.

4.2.2 Communications with the EOC will be by commercial telephone and radio.

4.2.3 Communications with Department of the Environment's Accident Assessment Center (AAC) in the EOF will be by commercial telephone (unlisted number) in the County EOC.

5.0 ACCIDENT ASSESSMENT

The Health Department is a support agency for Accident Assessment. The County Emergency Management Director or designee will keep the Health Officer informed of the accident status. The Health Officer will be located at the EOC and will assist the County Commissioners in the interpretation of radiological data as provided by the Center for Radiological Health, Department of the Environment. In the absence of any protective action recommendations or directives from the Governor or the Secretary of the Environment, the Health Officer will consult with the Emergency Management Director or designee and RO in order to provide the Board of County Commissioners with recommendations on Protective Actions to be taken. The County Health Department will provide personnel and equipment for the collection of samples as requested by the Department of the Environment.

6.0 PROTECTIVE ACTIONS

- CAUTION -

BEFORE DISPATCHING ANY PERSONNEL, CHECK WITH THE RO ON THE STATUS OF THE EMERGENCY. IF RADIATION HAS BEEN RELEASED, MAKE SURE ALL EMERGENCY WORKERS ARE BRIEFED ON EXPECTED DOSE RATES AND STAY TIMES. MAKE SURE EACH EMERGENCY WORKER IS ISSUED DIRECT READING DOSIMETERS, A TLD, RADIATION EXPOSURE RECORD, AND THAT EACH TEAM HAS RADIO COMMUNICATIONS TO THE COUNTY COMMUNICATIONS CENTER.

6.1 **Potassium Iodide.** The County Health Department is the lead Agency for directing and processing the distribution of potassium iodide to the general population. The Health Department will provide for the control and disposition of potassium iodide as requested by Department of Health and Mental Hygiene or the Department of the Environment. The County Health Officer will authorize the administration of potassium iodide to the general population as deemed necessary.

6.2 **Food, Water, Milk, and Livestock Feed Control.** The County Health Department is the Support Agency to the DHMH and MDE for food, water, milk, and livestock control. The Health Department will assist in the control and disposition of food, water, milk, and livestock feed supplies as requested by Department of Health and Mental Hygiene or the Department of the Environment.

7.0 PARALLEL ACTIONS

The Health Department is a support agency for Radiation Exposure Control and for Mass Care.

7.1 Radiation Exposure Control

7.1.1 The Health Department will maintain the emergency worker exposure records. The RO will forward all dosimetry records to the County Health Officer for the purpose of analysis. The County Health Officer will forward all original copies to the Emergency Management Office and be the permanent office of record of the completed forms. The records of individuals are to be kept confidential. (See Radiation Exposure Control SOP, Attachment 4).

7.1.2 The County Health Officer may authorize emergency worker exposure in excess of those limits contained in reference listed above. The County Health Officer is responsible for maintaining emergency personnel exposure as low as possible, for analyzing emergency personnel exposure records, informing personnel of possible health effects to personnel entering known or potentially high radiation areas where those personnel are expected to receive greater than one (1) rem of exposure.

7.1.3 The County Health Officer will authorize the administration of potassium iodide (KI) to the emergency worker as this action is deemed necessary. See TAB A for detailed procedures on administering KI.

7.2 **Mass Care**

The County Health Department will support the key agency for Mass Care, the American Red Cross, by providing Public Health Nurses to each evacuation center, which has been opened by the County for the receipt of evacuees. The Public Health Nurses will be available in the Center at all times for the purpose of administering first aid and routine nursing services and the distribution of supplemental potassium iodide. See Attachment #13, American Red Cross SOP.

8.0 PUBLIC INFORMATION

The Health Officer will provide personal health care and food, water, milk, and livestock feed control information to the Emergency PIO.

9.0 TRAINING

The County Health Officer will assure that personnel avail themselves of required training programs by State and local governments to prepare them in dealing with emergencies at CCNPP.

10.0 EXERCISES AND DRILLS

The Health Department will participate in exercises and drills at least once every two years.

11.0 SOP MAINTENANCE

The County Health Officer has overall responsibility to review and update this SOP at least annually. Telephone lists will be reviewed and updated quarterly.

ADMINISTRATION OF RADIOPROTECTIVE DRUGS

1.0 GENERAL

The State Department of Health and Mental Hygiene (DHMH) and the State Department of the Environment (MDE) have developed policies on the use, administration, distribution and storage requirements for Potassium Iodide (KI) for emergency workers and the general public.

1.2 Iodine accumulates in the thyroid gland which is located at the front base of the neck just below the larynx (Adam's Apple). Radioactive iodine is no different, i.e., it will accumulate in the thyroid gland in high concentration. Taking KI will have the effect of saturating the thyroid gland with iodine so that radioiodine (radioactive iodine) will not accumulate in a large quantity. Hence, KI lessens the risk to the thyroid gland. The available dose is one 130 mg. tablet per day.

1.3 The toxicity level of KI is very low and dangers in taking this drug are considered to be minimal. Nonetheless, individuals should not take more than the recommended dose. Although side effects to KI are unlikely because of the low dose and the short time period it will be taken, some side effects are possible -- the side effects may include: skin rashes, swelling of the salivary glands, "iodism" (metallic taste, burning mouth and throat, sore teeth and gums, cold symptoms and sometime gastrointestinal symptoms). A few people (estimated 1 in 50,000) may have an allergic reaction with more serious symptoms. These symptoms could be: elevated temperature, joint pains, swelling of the face and body, and at times, severe shortness of breath that requires immediate medical attention.

1.4 The effectiveness of KI as a blocking agent is greatest if administered before the time of exposure to radio-iodine, but some exposure saving can be obtained by administration shortly after exposure. Information on potassium iodide is included as an attachment.

1.5 The likely consequences of emergency worker's exposure to radiation during a fixed nuclear site incident follow:

1.5.1 Emergency workers engaging in life saving activities will not be affected by radiation sickness if their whole body exposure PAG (25 rem) is not exceeded.[1] The emergency worker is not risking his life until about 200 rem is exceeded.

1.5.2 Some representative dose effect relationships in man for whole body irradiation within a short period of time (24 hours) are:

[1]Manual of Protective Action Guides and Protective Actions for Nuclear Incidents, EPA 400-R-92-001.

Effect	GAMMA Dose (rem)
Minimal dose detectable by chromosome analysis. No readily detectable blood changes.	5-25
Temporary sterility.	50
Minimal acute dose readily detectable in a specific individual, e.g., blood count changes.	50-75
Minimal acute dose likely to produce vomiting in about 10% of people so exposed.	75-125
Acute dose likely to produce transient disability and clear blood changes.	150-200
Median lethal dose for a short single exposure.	300
Lethal exposure / Permanent sterility	800

1.5.3 EPA Protective Action guides for thyroid dose is 25 rem for emergency workers with no specific upper limit for life savings activities. Maryland has established a 10 rem limit for thyroid dose. No specific upper limit is given for thyroid exposure since in the extreme case complete thyroid loss might be an acceptable penalty for a life saved. However, this should not be necessary if respirators and/or thyroid protection for rescue personnel are available.

2.0 IMPLEMENTATION

2.1 The administration of KI as a blocking agent will be as directed by the County Health Officer during an emergency at a nuclear power plant.

2.2 Approximately 1400 doses of KI, tablet form, will be initially located in the County Emergency Operation Center (EOC) for use by emergency workers.

2.3 The County Health Officer will insure that the KI doses are properly stored in a secure location and maintain shelf-life records.

2.4 All emergency personnel (police, fire and resource personnel, radiological field monitors, medical personnel) who are administered KI will be thoroughly briefed by the Health Officer or his designated representative before each mission.

NCRP No. 39, Basic Radiation Protection Criteria

2.5 Emergency personnel will be provided a Dosimetry-KI Report Form and the KI record will be completed before each mission. Upon completion of the mission, the report will be returned to the Health Officer. The Health Officer or designated representative will review the form and maintain on file.

3.0 RADIATION EXPOSURE CONTROL

3.1 Potassium Iodide

The use of stable iodide as a protective action for emergency workers has been recommended by the Environmental Protection Agency. When a projected thyroid dose is greater than 10 rem, the administration of KI as a blocking agent should be considered. Its administration must be in accordance with State of Maryland Health Laws and be under the direction of State or County medical officials. The Secretary of Health and Mental Hygiene or the Deputy State Health Officers are responsible for the release of potassium iodide for use in an emergency. The County Health Officer will brief emergency workers on the limitation and directions for administration of potassium iodide (KI) prior to their departure. The Secretary of Health and Mental Hygiene or the Deputy State Health Officers shall make the determination for continued daily use of KI (130 milligram per day, per person, up to 10 days).

When KI is to be administered, single doses of 130 milligram (1 tablet) are to be administered to effected individuals prior to responding to an emergency or within two hours of exposure. If it is impossible to administer KI within two hours of exposure, administration beyond this period will still reduce the biological half-life of radioiodine.

Supplies of KI (in tablet form) are located in the Emergency Operations Center (EOC) in each plume zone county. Approximately 1400 doses of KI are located in each county emergency operations center. A stock of approximately 5000 doses of standard solution of potassium iodide (SSKI) is maintained in the pharmacy at Calvert Memorial Hospital in Prince Frederick, Maryland for support of local emergency team workers. Standard solution potassium iodide is administered at the rate of two or three drops of SSKI in a glass of water in lieu of 130-milligram tablets. In the event of the depletion of existing governmental supplies, the request for the use of stock (SSKI) at the Calvert Memorial Hospital must be coordinated through a Deputy State Health Officer with the Secretary of Health and Mental Hygiene. The shelf life for potassium iodide is currently considered five years from the date of manufacture. Shelf-life records will be maintained at each storage location.

ATTACHMENT #9

CALVERT COUNTY
BOARD OF EDUCATION STANDARD OPERATING PROCEDURE

1.0 RESPONSIBILITIES

The responsibilities of the Board of Education are outlined in the Calvert County REP. The Board of Education is a support agency for Evacuation, Mass Care, Relocation, Return and Public Information.

1.1 The Board of Education supports the Sheriff's Department which is the key agency for evacuation, by providing transportation for evacuees.

1.2 The Board of Education supports the American Red Cross and Department of Social Services for Mass Care activities by providing schools for mass care centers and personnel for food services.

1.3 The Board of Education supports Emergency Management for Return operations.

1.4 The Board of Education will provide information on public transportation activities and school evacuation activities to the PIO.

1.5 The Board of Education will be notified of schools that may be affected by a Protective Action order as designated by the EOC staff.

- **NOTE** -
Protective Actions for schools may consist of, cancellation of school day, early dismissal, sheltering, thyroid protection or evacuation.

2.0 COMMAND AND COORDINATION

2.1 The Superintendent of Schools or alternate, the Assistant Superintendents, is in charge of the emergency response operations. The Superintendent is responsible for ensuring that the agency is properly staffed and sufficient resources are available for 24-hours operations for a protracted period.

2.2 Normal procedures will be utilized for obtaining necessary resources. When these sources become exhausted, requests for additional resources will be made to the EM Director or designee through the EOC representative.

2.3 A record of activities shall be kept during the emergency. A record of man hours expended and other costs shall be maintained and submitted to the EM Specialist at the end of the emergency. Receipts will be provided.

2.4 The Superintendent of Schools is responsible for implementing the Calvert County School Services Plan (TAB A).

3.0 IMPLEMENTATION

This section identifies the pre-planned response to each emergency class declared by Calvert Cliffs Nuclear Power Plant (CCNPP).

3.1 **Unusual Event** - No response required.

3.2 **Alert**

3.2.1 The EM Director or designee will notify EOC representatives, Superintendent and Transportation Supervisor to report to the EOC (TAB B).

3.2.2 EOC representative will notify all other personnel of emergency. (see TAB B)

3.2.3 Individual schools may be notified via the automated emergency telephone notification system.

3.2.4. School Superintendent may implement the Calvert County School Services Plan (TAB A).

3.3 **Site Area Emergency**

3.3.1 Same as for Alert.

3.3.2 The Transportation Supervisor will notify appropriate personnel to have the necessary buses report to designated reception centers to obtain instructions.

3.3.3 The EOC representative will coordinate with Department of General Services to be ready to open those schools designated as shelters (TAB C).

3.3.4 The EOC representative will notify schools in the plume zone to be prepared to distribute potassium iodide or evacuate the school population, if necessary.

3.3.5. School Superintendent will implement the Calvert County School Services Plan (TAB A).

- NOTE -

The Transportation Supervisor for the Calvert County Public Schools or his designee is responsible for the evacuation transportation needs and procedures in the event of an evacuation of the public and/or schools population due to an accident at CCNPP.

3.3.5 The Transportation Supervisor will:

3.3.5.1 Maintain notification call-up chain (fan-out) for personnel, contractors, and/or drivers, and staff. (see TAB D)

3.3.5.2 Provide zone maps, bus and route assignments with written instructions.

3.3.5.3 Assemble individual packets to be given to the bus drivers at reception centers. The packets will contain the following:

3.3.5.3.1 Maps depicting affected area(s).

3.3.5.3.2 Zones with bus routes affecting those areas to be evacuated.

3.3.5.3.3 White card for placement in window with route information.

3.3.5.3.4 List of Mass Care Centers.

3.3.5.4 Provide guides for out-of-county transportation vehicles as required.

3.3.5.5 Designate staging area(s) in certain subdivisions and locales for citizen pickup.

3.3.5.6 Coordinate transportation for non-ambulatory evacuees.

3.3.5.7 Designate Host School for specific school evacuations when required (see TAB A).

3.4 General Emergency

3.4.1 Same as for the Site Area Emergency.

4.0 NOTIFICATION AND COMMUNICATION

4.1 Initial Notification

Upon notification of an emergency.

4.1.1 Verify the authenticity and content of the message if caller is unknown by return call to Calvert Emergency Management or Calvert Control.

4.1.2 Emergency Management will notify the Superintendent.

4.1.3 At the direction of the Superintendent, EOC representative will initiate a call up of all off-duty personnel.

4.2 Communications

4.2.1 Communications with the Board of Education personnel will be routine channels.

4.2.2 Communications with the EOC will be by commercial telephone or RACES (amateur radio) or radio communication.

4.2.3 Communications with schools will be via the Community Alert Network or by public telephone.

4.2.4 Status of evacuated students will be via EAS.

5.0 PROTECTIVE ACTIONS

- CAUTION -

BEFORE DISPATCHING ANY PERSONNEL, CHECK WITH THE RO ON THE STATUS OF THE EMERGENCY. IF RADIATION HAS BEEN RELEASED, MAKE SURE ALL EMERGENCY WORKERS ARE BRIEFED ON EXPECTED DOSE RATES AND STAY TIMES. MAKE SURE EACH EMERGENCY WORKER IS ISSUED DIRECT READING DOSIMETERS, A TLD, RADIATION EXPOSURE RECORD, AND THAT EACH TEAM HAS RADIO COMMUNICATIONS TO THE COUNTY COMMUNICATIONS CENTER.

5.1 Evacuation

5.1.1 If the situation escalates to a General Emergency and evacuation is imminent, information packets for those areas to be evacuated (based on information provided by the Emergency Management Director or his designee), and dosimeters will be distributed to the bus drivers at the bus assembly area(s). (see TAB F).

5.1.2 Upon notification from the County Emergency Management Director or designee that an evacuation has been ordered, the assigned buses for those designated areas will be dispatched. Vehicles with lifts for handicapped will be dispatched, as necessary.

5.1.3 Evacuees will be transported to predetermined reception centers. (TAB G)

5.1.4 Evacuees will be transported by assigned buses to Mass Care Centers after registration is completed at the reception center. (TAB C)

5.1.5 When assigned mission is complete, drivers will report to the designated assembly point for further instructions and personal dosimeter readings checked and recorded. Personnel and equipment will be checked for contamination and directed to a decontamination center if contaminated.

6.0 PARALLEL ACTIONS

6.1 Mass Care

If an evacuation is imminent or has been ordered, personnel of the schools designated as Mass Care centers will open the schools and support the American Red Cross and Department of Social Services by providing food services for evacuees.

6.2 Return

Bus transportation will be provided as needed to return evacuees to their homes. The Emergency Management Division will provide directions on when and where evacuees may be returned.

7.0 PUBLIC INFORMATION

All media requests for information must be forwarded to the Emergency Public Information Officer (PIO) for Calvert County. Any assistance requested by the Emergency PIO will be provided. Information regarding destination of evacuated school children must be forwarded to the Emergency PIO.

8.0 TRAINING

The Superintendents of Schools will assure that assigned personnel avail themselves of required training as arranged by the EM Director or designee.

9.0 EXERCISES

The Board of Education will cooperate with the EM Director or designee by participating in scheduled drills and exercises.

10.0 SOP MAINTENANCE

The Superintendent of Schools will review for possible revision this SOP at a minimum of once annually. Telephone lists will be reviewed for possible revision at least once quarter.

TAB A
Page 1 of 5

CALVERT COUNTY SCHOOL SERVICES

I. Purpose

The purpose of this Procedure is to provide specific concepts and responsibilities for school response related to an incident at the Calvert Cliffs Nuclear power Plant (CCNPP).

II. Situation and Assumption

A. Situation

1. Protective Actions could become necessary for the safety and welfare of students in the event of an incident at CCNPP.

2. The Southern Middle, Patuxent High School, Mutual Elementary, Appeal Elementary, Our Lady Star of the Sea School, Patuxent Elementary, Lusby Christian School and Mill Creek Middle Schools are located in the Calvert County portion of the CCNPP Emergency Planning Zone (EPZ).

3. Students who live in the Calvert County portion of the EPZ but attend school (public, private, parochial) outside the zone will be affected by Protective Action decisions.

4. In the event of an evacuation, evacuees will require Mass Care Services established in Calvert County Schools.

B. Assumptions

1. Calvert County Public Schools will provide buses to evacuate students from the affected schools.

2. Calvert County Public School buildings and privately owned school buildings located at least 15 miles from CCNPP may be utilized as Mass Care Centers for evacuees.

III. Concept of Operations

A. General

School functions will be performed in accordance with internal policies and appropriate site specific procedures(s).

B. Unusual Event (School in session).

No action required.

C. Alert (School in session)

1. Calvert County Schools and appropriate private schools will be notified.

2. Schools designated, as Mass Care Centers, Host Schools and Reception Centers will be notified.

3. Schools bus drivers will be notified and placed on standby.

4. Prepared EAS announcements will be reviewed for possible revisions.

5. The Superintendent may cancel extracurricular events.

D. Site Area Emergency (School in session)

1. Complete items under Alert.

2. Early dismissal will be considered for the Host School and schools required as Mass Care Centers and the Risk School.

3. Transportation resources for evacuation will be prepositioned at the risk school.

4. If a Protective Action is recommended, complete appropriate actions under General Emergency.

E. General Emergency (School in session)

1. Complete items under Alert and Site Area Emergency.

2. Emergency Alert System (EAS) announcements will be made to notify parents of school Protective Actions, if appropriate.

3. If Take Shelter is recommended the risk school will shelter in place.

4. If ingestion of Potassium Iodide is recommended then the risk school will administer KI.

5. If Evacuation is recommended:

a. Schools designated as Mass Care Centers and the host school will open, as appropriate.

b. The risk school will evacuate to the host school.

c. Students will remain at the host school until picked up by a parent or guardian.

d. Schools outside the EPZ but having students who reside in the EPZ will retain students.

F. Alert, Site and General Emergency (School not in session).

1. Schools will remain closed.

2. All extracurricular activities will be canceled.

3. The risk school building will be secured.

4. Schools required for Mass Care Centers will prepare to open for operations and open as requested.

IV. Direction and Control

A. The Superintendent or his designee will be responsible for emergency response for the duration of the emergency.

B. The responsibility rests with the Superintendent of Schools or his designee for the evacuation of school students should such action be directed by the Governor, the Secretary, Maryland Department of the Environment or the President, County Commissioners, or designee.

C. The Calvert County Emergency Management Director or designee will coordinate all evacuation procedures. The Director will assist the school in the coordination of this effort.

D. The Superintendent of Schools will be responsible for the following:

1. To provide for the safety and welfare of school children who are attending school within the Plume Exposure Pathway EPZ of CCNPP.

2. To provide for the safety and welfare of school children who are attending school outside the Plume Exposure Pathway EPZ of CCNPP but live inside the EPZ.

3. To keep parents informed of actions to be taken by the school district for the protection of their children in the event of an incident at CCNPP.

4. To make available school buildings to be used as Mass Care Centers. Coordinate priority with the Director/designee, Calvert County EM, Red Cross and Social Services.

5. To establish procedures for receipt and dissemination of Protective Action messages.

6. To provide bus transportation for students, as required.

7. To coordinate plans with risk schools, Mass Care Centers, appropriate agencies and transportation.

8. To provide a teacher to accompany each evacuation bus and remain with students until they are released.

V. Organization and Assignment of Responsibilities

Calvert County Public Schools

Coordinate public and private schools response to CCNPP incidents.

VI. Attachments

1. Risk School/Host School for CCNPP incidents.

2. School Bus Resource Information

3. Evacuation Route Map from Risk School to Host School

RISK SCHOOL/HOST SCHOOL FOR CCNPP INCIDENTS

RISK SCHOOL	HOST SCHOOL
Southern Middle	Northern High School Chaneyville Road
Mutual Elementary	Northern Middle School Chaneyville Road
Appeal Elementary	Sunderland Elementary Route 2
Our Lady Star of the Sea	Mt. Harmony Elementary Mt. Harmony Road
Patuxent Elementary	Huntingtown Elementary Huntingtown Road
Mill Creek Middle	Windy Hill Middle
Lusby Christian School	Mt. Harmony Elementary
Patuxent High School	Northern High School
St. Leonard Elementary	Northern High Schools
Dowell Elementary School School	Mt. Harmony Elementary
Middleham & St. Peters Episcopal Day School	Huntingtown Elementary Huntingtown Road
Island Creek Head Start	Sunderland Elementary
Patuxent Elementary Head Start	Huntingtown Elementary Huntingtown Road

BUS RESOURCE INFORMATION

RISK SCHOOL	BUSES NEEDED FOR EVACUATION	BUSES AVAILABLE	UNMET NEEDS
Southern Middle	17	17	0
Mutual Elementary	17	17	0
Appeal Elementary	11	11	0
Our Lady Star of the Sea	5	2	3
Patuxent Elementary	12	12	0
Mill Creek Middle	14	14	0
Lusby Christian School	1	0	1
Patuxent High School	20	20	0
St. Leonard Elementary	14	14	0
Dowell Elementary School	-	-	-
Island Creek Head Start	-	-	-
Patuxent Elementary	-	-	-
Middleham & St. Peters Episcopal Day School	1	0	1

TAB B

BOARD OF EDUCATION STANDARD OPERATING PROCEDURES

STAFF CALL LIST

(MAINTAINED IN EOC)

TAB C

CALVERT COUNTY MASS CARE CENTERS

Evacuees requiring shelter will be provided directions or transportation from the Reception centers to the Mass care centers listed below:

List Maintained in EOC

TAB C

CALVERT COUNTY

Upon the request of Calvert County, evacuees may be directed to report to the following Mass care centers outside of Calvert County.

List Maintained in EOC

TAB D

CALVERT COUNTY PUBLIC SCHOOLS
Prince Frederick, Maryland 20678

ORGANIZATION FOR CALL OOL BUS CONTRACTORS

(For Use Only with the CCREP)

MAP OF RECEPTION CENTERS AND MASS CARE CENTERS FOR CALVERT COUNTY EVACUEES (MAP 1 OF 3)

1. Calls are made only by persons whose name appears on lines A, B, C, or D.
2. The four contractors on line A will be called to implement this chain.
3. The four contractors on line A will call the contractors on lines B, C, and D under their name.
4. The contractors on lines B, C, and D will call the contractors listed under their name.
5. It is the responsibility of the contractors to inform their driver(s) of the message.
6. The message is:

   a. If an exercise, include the words "THIS IS AN EXERCISE, DO NOT IMPLEMENT" at the beginning and ending of the message.

   b. Message: "ALL SCHOOL BUSES WILL PROCEED AS SOON AS POSSIBLE TO (specific bus assembly area designated by the EOC Transportation Officer. SEND ALL BUSES; INCLUDING SPARES AND OVER AGE, FOR WHICH YOU HAVE OR CAN GET A DRIVER."

   (TELEPHONE LIST MAINTAINED IN EOC & TRANSPORTATION SUPERVISOR'S OFFICE)

Reception Centers
3. Calvert Senior High

TAB E

REQUIREMENTS BY AREA

AREA	NUMBER OF BUSES	AREA	NUMBER OF BUSES
G-1	1	M-1	2
G-2	2	M-2	3
G-3	0	M-3	4
H-1	1	N-1	1
H-2	5	N-2	2
H-3	12	N-3	7
J-1	13	P-1	1
J-2	26	P-2	2
J-3	13	P-3	17
K-1	2	Q-1	0
K-2	4	Q-2	6
K-3	3	Q-3	15
L-1	3	R-1	0
L-2	2	R-2	0
L-3	0	R-3	8

Total # of Buses Needed to Evacuate 10 miles Area 158

TAB F

BOARD OF EDUCATION SOP

BUS RECEPTION CENTERS

1. Bus Reception centers:

    a. South of CCNPP

        1. Appeal Elementary School, Rt. 2 & 4, Appeal, MD.

    b. North of CCNPP

        1. Board of Education Administration Building

TAB G

CALVERT COUNTY

RECEPTION CENTERS

County/Facility Calvert County	Distance From CCNPP (Miles)	Location
North of Calvert Cliffs Nuclear Power Plant		
Huntingtown High School	17	North on R. 2 & 4
South of Calvert Cliffs Nuclear Power Plant		
Leonardtown High School Leonardtown, MD.		Leonardtown, MD.

Upon the request of Calvert County, evacuees may be directed to report to the following Reception Centers outside of Calvert County.

Anne Arundel County

Southern High School Route 2 Harwood, MD.	26	North on R. 2 & 4; North on Rt. 2

TAB G

BOARD OF EDUCATION SOP

RECEPTION CENTERS

1. Reception centers:

   a. South of CCNPP

      1. Leonardtown High School, Leonardtown, MD

      2. Hughesville Volunteer Fire Department and Rescue Squad, Rt. 231, West of Rt. 5, Hughesville, MD.

   b. North of CCNPP

      1. Southern High School, Route 2, Harwood, MD.

      2. Huntingtown High School, Rt. 2-4, Huntingtown, MD.

TAB H

CALVERT COUNTY

RADIOLOGICAL MONITORING AND DECONTAMINATION CENTERS

EVACUEES

The following Reception centers will be equipped to monitor evacuees for radiological contamination. They will be equipped to perform decontamination as necessary. North of Calvert Cliffs Nuclear Power Plant.

Huntingtown High School
Route 2-4
Huntingtown, MD

Southern High School
Rt 2, Harwood
Anne Arundel County

South of Calvert Cliffs Nuclear Power Plant

Leonardtown High School.

EMERGENCY WORKERS, EQUIPMENT AND MATERIALS

The following facilities will be equipped to monitor emergency workers, equipment, and materials for radiological contamination and will be equipped to perform decontamination as necessary.

North of Calvert Cliffs Nuclear Power Plant

Emergency Worker Decontamination Center
Stafford Road
Barstow
South of Calvert Cliffs Nuclear Power Plant

The following facility is only to be used if environmental conditions permit and there is no threat of additional radioactive releases.

Solomons Volunteer Fire Department
Company No. 3
Routes 2 & 4
Solomons, MD

TAB I

INSTRUCTIONS TO DISPATCHERS

PURPOSE

To dispatch mass transportation vehicles to evacuate citizens from designated zones within the emergency plume zone and/or adjacent areas of CCNPP.

DEFINITIONS

CCNPP - Calvert Cliffs Nuclear Power Plant

IMPLEMENTATION

1. On instruction of the EOC Transportation Officer, activate the chain to call the school bus contractors.

    a. Message to be sent on the chain:

        (1) If an exercise, include the words "THIS IS AN EXERCISE, DO NOT IMPLEMENT" at the beginning and ending of the message.

        (2) Message: "ALL SCHOOL BUSES WILL PROCEED AS SOON AS POSSIBLE TO **(specific bus assembly area designated by the EOC Transportation Officer)."** DISPATCH ALL AVAILABLE BUSES."

    b. Inform the EOC Transportation Officer by telephone when the chain is completed.

2. On instructions from the EOC Transportation Officer, dispatchers will depart to the assigned bus reception centers. Inform the EOC Transportation Officer when you arrive at the bus assembly area..

3. Dispatchers will carry bus route packets to the bus reception centers along with 150 extra copies of "Instructions to Bus Drivers."

4. On instruction form the EOC Transportation Officer, dispatch guides (driver trainers) to the County line to guide vehicles for outside the County to the Calvert Middle School bus assembly area. Instruct guides to inform you when the buses arrive at the County line.

5. Inform the EOC Transportation Officer by telephone when the buses arrive at the bus assembly area.

6. Brief all bus drivers on their role in the evacuation. Use the packet sheet "Instructions to Bus Drivers." Drivers may be assembled on one bus for this purpose. Inform the EOC Transportation Officer when briefing is complete.

TAB I

7. On instructions from the EOC Transportation Officer, dispatch buses to their various routes.

   a. You should receive the following instructions from the EOC Transportation Officer:

      (1) Time evacuation is to begin

      (2) Name of reception center

      (3) Name of mass care center

   b. Verify instructions by repeating them back to the EOC Transportation Officer.

   c. Inform drivers of these centers.

   d. Issue Exposure Control Equipment (direct reading dosimeters & TLD), giving drivers assistants, etc. instructions in the use of. Complete Dosimetry Issue Log, Exhibit A.

8. Inform the EOC Transportation Officer when the buses have been dispatched.

9. Remain at the bus assembly area for further instructions and to receive the returning buses.

10. When the buses return:

   a. If evacuation is complete:

      (1) Collect manifest sheets.

      (2) Collect Exposure Control Equipment. Complete Dosimetry Issue Log,

      (3) Release drivers.

   b. If evacuation is incomplete:

      (1) Send buses to refuel, if necessary.

      (2) Re-dispatch buses to complete the evacuation.

TAB J

INSTRUCTIONS TO BUS DRIVERS

ASSIGNED RECEPTION CENTER _____

ASSIGNED MASS CARE CENTER _____

PURPOSE

To evacuate citizens from designated zones within the emergency plume zone and/or adjacent areas of CCNPP.

DEFINITIONS

CCNPP - Calvert Cliffs Nuclear Power Plant

IMPLEMENTATION

1. Buses have been assigned to pick up along the roads and streets of Calvert County within a ten-mile radius of CCNPP.

2. Buses will be dispatched from bus reception centers to the various routes.

3. The routes are contained in a packet to be given to the drivers at the bus reception centers.

4. Each packet will include:

    a. Instructions to bus drivers (this sheet).

    b. Bus Route: The individual route this bus is to cover is circled in red or black ink on the bus route sheet, which is labeled with a zone number.

    c. Route Map: This map has the roads over, which this bus is to pick up, colored in red ink.

    d. Route Manifest: Drivers are instructed to list time and odometer readings at the bus assembly area, garage and return to the bus assembly area.

    e. Emergency Management evacuation vehicle requirements by area.

    f. Reception Centers

    g. Mass Care Centers

5. The dispatcher will issue required dosimetry to each bus driver. Attach the dosimeter to your outside clothing.

6. When dispatched each bus will proceed to the route area circled on the route sheet and colored on the route map.

7. Proceed slowly through the indicated route area, actively looking for persons who seek transportation services.

8. Pick up all individuals who seek transportation assistance.

9. When the assigned route has been completely covered, proceed to the assigned reception center.

10. Have a dosimeter read at the reception center.

11. At the reception area wait until a load has re-boarded the bus and proceed to the assigned Mass Care center.

12. Unload at the Mass Care center and return to the original bus assembly area or as instructed by Transportation Supervisor.

13. At the original bus assembly area:

    a. Turn in your route manifest sheet to the dispatcher.

    b. Turn in your dosimeter to the dispatcher. Follow the instructions of the technician who read your dosimeter at the center.

14. Wait for further instructions from the dispatcher.

15. You will be needed for the return phase of the evacuation.

TAB J

CALVERT COUNTY PUBLIC SCHOOLS
Prince Frederick, Maryland 20678

EMERGENCY EVACUATION MANIFEST

(For Use Only With the CCREP)

DRIVER: _____ BUS NO. _____

CONTRACTOR: _____ CONTRACTOR'S PHONE: _____

DATE OF TRIP: _____

DETAILS OF TRIP	TIME	ODOMETER
DEPART ( ) ( )		
ARRIVE ( ) ( )		
DEPART ( ) ( )		
ARRIVE ( ) ( )		
DEPART ( ) ( )		
RETURN ( ) ( )		

Drivers are instructed to write appropriate information inside the ( ).

DRIVER'S EXPLANATION OF TRIP:

_____

_____

_____

_____

CONTRACTOR'S SIGNATURE DRIVERS SIGNATURE

_____ _____

DATE_____ DATE_____

ATTACHMENT #10

CALVERT COUNTY

PUBLIC WORKS DEPARTMENT STANDARD OPERATING PROCEDURES

1.0 PURPOSE

To establish procedures, guidelines and assign tasks to County staff, Maryland State Highway Administration, Resident Engineer and private contractors during a radiological emergency.

2.0 RESPONSIBILITIES

2.1 Support Evacuation

2.2.1 Upon request, will support the MSP in access control by:

2.2.1.1 Providing road barricades.

2.2.1.2 Personnel

2.2.1.3 Request necessary equipment and personnel from SHA Resident Engineer.

2.3 Traffic Impediments

In the event of seasonal or other causes of traffic impediments, the Public Works Department in cooperation with SHA will provide necessary equipment, vehicles and personnel to restore traffic flow for evacuation and/or return.

2.4 Public Information

The Public Works Department in cooperation with SHA, will provide highway information to the Emergency PIO.

3.0 IMPLEMENTATION

This section identifies the pre-planned response to each emergency class declared by CCNPP.

3.1 **Unusual Event** - No response required.

3.2 **Alert**

3.2.1 Upon notification from EM Director or his designee of an Alert at CCNPP, the County Engineer, or his designee, will report to the EOC.

3.3 **Site Area Emergency** - Same as for Alert.

3.4 **General Emergency** - Same as for Site Area Emergency.

4.0 NOTIFICATION AND COMMUNICATION

4.1 Initial Notification

Upon notification of an emergency;

4.1.1 The Director, Public Works or designee may, if the caller is unknown to him, verify the authenticity and content of the message by return call to the Emergency Management Director or designee.

4.1.2 At the direction of the Director, Public Works or designee will initiate a call up of all off-duty personnel.

4.2 Communications

4.2.1 The primary means of communications with the engineer will be by telephone.

4.2.2 Radio - SHA frequency, County frequency or RACES.

5.0 PROTECTIVE ACTIONS

- CAUTION -

BEFORE DISPATCHING ANY PERSONNEL, CHECK WITH THE RO ON THE STATUS OF THE EMERGENCY. IF RADIATION HAS BEEN RELEASED, MAKE SURE ALL EMERGENCY WORKERS ARE BRIEFED ON EXPECTED DOSE RATES AND STAY TIME. MAKE SURE EACH EMERGENCY WORKER IS ISSUED DIRECT READING DOSIMETERS, A TLD, RADIATION EXPOSURE RECORD, AND THAT EACH TEAM HAS RADIO COMMUNICATIONS TO THE COUNTY COMMUNICATIONS CENTER.

5.1 Evacuation

5.1.1 Upon request from the Sheriff for special transportation or road clearing needs for evacuation, the Director, Public Works or designee will supply the necessary vehicles from:

5.1.1.1 County owned vehicles or equipment.

5.1.1.2 Maryland State Highway Administration - Local Maintenance garage, Rt. 231, Prince Frederick, MD.

5.1.1.3 Request through County EM Director or designee to State for additional vehicles and equipment.

5.1.1.4 Personnel will be provided from other County Departments and agencies.

5.2 **Access Control**

5.2.1 Upon request from the MSP, the Director, Public Works or designee will provide barricades and personnel to assist in access control.

6.0 PARALLEL ACTIONS

6.1 **Return**

6.1.1 Will support EM Director or designee during return operations by: providing special transportation or road clearing needs during return (e.g. 4-wheel drive vehicles, pickups, dump trucks, snow removal equipment, cars, etc.)

6.1.2 Provide and/or remove barricades.

7.0 PUBLIC INFORMATION

The Director, Public Works or designee, in cooperation with the State Highway Administration, Resident Engineer, Sheriff and MSP will provide road and traffic conditions to Emergency PIO.

8.0 EXERCISES AND DRILLS

The Public Works Department will participate in exercises and drills at least once every two years.

9.0 TRAINING

The Public Works Department personnel will attend training programs provided by State and local governments to prepare them in dealing with emergencies at CCNPP.

10.0 SOP MAINTENANCE

The County Engineer has overall responsibility to review and update this SOP at least annually. Telephone lists will be reviewed and updated quarterly.

ATTACHMENT 11

CALVERT COUNTY

DEPARTMENT OF GENERAL SERVICES STANDARD OPERATING PROCEDURE

1.0 RESPONSIBILITIES

The Department of General Services is a support agency for Mass Care.

1.1 The Department of General Services supports the American Red Cross, the Department of Social Services, and the County Health Department, by opening and establishing facilities for Reception, Mass Care, and contamination monitoring/decontamination.

2.0 COMMAND AND COMMUNICATION

2.1 The Director, Department of General Services, or his designee, is in charge of Department of General Services Emergency Response Operations.

2.2 Normal procedures will be utilized for obtaining necessary resources. When these sources become exhausted, requests for additional resources will be made to the Emergency Management Director or designee.

2.3 The Director, Department of General Services, is responsible for ensuring the 24-hour availability of sufficient General Services staff to carry out emergency duties.

2.4 The Department of General Services will coordinate with the Board of Education when utilizing school facilities for emergency use.

2.5 A record of activities shall be kept during the emergency. A record of manhours expended and other costs shall be maintained and submitted to the EM Specialist at the end of the emergency. Receipts will be provided.

3.0 IMPLEMENTATION

3.1 **Unusual Event** - No response required.

3.2 **Alert**

3.2.1 The EM Director or designee will notify the Director, Department of General Services, or his designee, to report to the EOC.

3.2.2 The Director, General Services, or his designee, will notify all other General Services personnel with emergency duties of the emergency and the need to standby for assignments.

3.3 **Site Area Emergency**

3.3.1 Same as for Alert.

3.3.2 The Director, General Services, or his designee, will coordinate with the Board of Education to be ready to open those schools designated as reception centers or mass care centers.

3.3.3 Assign Department of General Services personnel to designated schools/facilities for opening and set-up.

4.0 NOTIFICATION AND COMMUNICATION

4.1 Initial Notification

Upon notification of an emergency;

4.1.1 Verify the authenticity and content of the message if caller is unknown by return call to Calvert Emergency Management.

4.1.2 As required by the emergency class, the Director- General Services or his designee will initiate the fan-out notification to General Services Department personnel.

4.2 Communications

4.2.1 Communication with the County EOC and General Services Department personnel will be by commercial telephone.

4.2.2 Communications with Reception Centers and Mass Care Centers will be by commercial telephone, RACES radio, or messenger.

5.0 PARALLEL ACTIONS

5.1 Mass Care

5.1.1 If evacuation is imminent, the Director of General Services, or designee in the EOC, will request the Board of Education EOC representative to open schools designated as reception centers or evacuation shelters.

5.1.2 The Director of General Services, or designee in the EOC, will dispatch General Services Department personnel to the designated schools to set up the facilities for use as an reception center or mass care center.

5.1.3 Department General Services personnel will inform the EOC when facility set up is complete and ready to accept evacuees.

6.0 PUBLIC INFORMATION

All media requests for information must be forwarded to the Emergency Public Information Officer (PIO) for Calvert County. Any assistance requested by the Emergency PIO will be provided.

7.0 TRAINING

The Director of General Services will assure that assigned personal avail themselves of required training as arranged by the EM Director or designee.

8.0 EXERCISES

The Department of General Services will cooperate with the EM Director or designee by participating in scheduled drills and exercises.

9.0 SOP MAINTENANCE

The Director of General Services will review for possible revision this SOP at a minimum of once annually. Telephone lists will be reviewed for possible revision at least once quarterly.

ATTACHMENT 12

CALVERT COUNTY

THE DEPARTMENT OF SOCIAL SERVICES STANDARD OPERATING PROCEDURE

1.0 RESPONSIBILITIES

The responsibilities of the Department of Social Services are outline in Calvert County Radiological Emergency Plan . The Department of Social Services is the key agency for Reception Center staffing and is supported by the American Red Cross, County Health Department, Board of Education and Department of General Services in Mass Care.

2.0 COMMAND AND COORDINATION

2.1 The Director, Department of Social Services or alternate, the supervisor, is in charge of the emergency response operations. The Director is responsible for ensuring that the agency is properly staffed and sufficient resources are available for 24-hour operations for a protracted period.

2.2 Normal procedures will be outlined for obtaining necessary resources. When these sources become exhausted, request for additional resources will be made to the EM Director or designee through the EOC representative.

2.3 A record of activities shall be kept during the duration of the emergency. A record of man hours expended and other costs shall be maintained and submitted to the EM Specialist at the end of the emergency. Receipts shall be provided when available.

3.0 IMPLEMENTATION

This section identifies the pre-planned response to each emergency class declared by CCNPP.

3.1 **Unusual Event** - No response required.

3.2 **Alert**

3.2.1 The EM Director or designee will notify the Social Services Director or designee, to report to the EOC.

3.2.2 The Director of Social Services will notify all other personnel with emergency duties of the need to standby for assignments.

3.3. **Site Area Emergency**

3.3.1 Upon notification by the Calvert County Emergency Management Director or designee, of a Site Area Emergency at the CCNPP, local Director of Social Services or designee will report to the County Emergency Operating Center (EOC), along with Disaster Chairman of the Calvert County Chapter of the American Red Cross.

3.4 **General Emergency**

3.4.1 Same as for Site Area Emergency.

4.0 NOTIFICATION AND COMMUNICATIONS

4.1 Initial Notification

Upon notification of an emergency;

4.1.1 Verify the authenticity and content of the message if caller is unknown by return call to County Emergency Management.

4.1.2 Notify the Director, Department of Social Services or Supervisor .

4.1.3 At the direction of the Director or supervisor, initiate a call up of all off duty personnel.

4.2 Communications

4.2.1 Communications with agency personnel will be by routine channels.

4.2.2 Communications with the EOC will be by:

4.2.2.1 Telephone

4.2.2.2 Police vehicle mobile radio

4.2.2.3 Messenger

5.0 PARALLEL ACTIONS

If the situation escalates to a General Emergency and evacuation is imminent, the local Director of Social Services or his designee will be in charge of the registration of evacuees at designated reception centers and will support the American Red Cross in registrations at Mass Care Centers (See TAB B)

5.1 The local Director of Social Services or his designee will contact already designated staff, who will report to the designated assembly area..

5.1.1 The staff will log in all evacuees and hand-stamp to confirm radiological monitoring has been completed at the Reception Center.

5.1.2 The staff here will assign the evacuees to Mass Care Centers in coordi9nation with the ARC representative in the EOC.

5.1.3 The staff will maintain a log book of all evacuees.

5.2 In the event evacuation is imminent, the Director of General Services or designee, in the EOC will request the Board of Education representative in the EOC to open schools designated as Reception Centers and Mass Care Centers. At this time, the Social

Services representative will also notify the in-charge Reception Center personnel, who, in turn will contact their staff personnel and volunteers and have them report to the assigned Reception Center. The Social Services representative will keep the Emergency Management Director or designee informed of Reception Center status. The Emergency Management Director or designee will advise the Emergency Management Directors of Charles and Anne Arundel Counties of needs.

5.3 Requests for resources needed beyond our capabilities will be referred to the Emergency Management Director or designee for direction.

5.4 Reception Centers and Mass Care Centers are maintained on file in the EOC.

6.0 PUBLIC INFORMATION

6.1 Social Services will provide the following information to the PIO:

6.1.1 Location of Reception Centers.

6.2 All media requests for information must be forwarded to the Emergency PIO for Calvert County. Any assistance requested by the Emergency PIO will be provided.

7.0 EXERCISES AND DRILLS

Social Services will participate in exercises and drills at least once every two years.

8.0 TRAINING

Social Services personnel will attend training programs provided by State and local governments to prepare them for dealing with emergencies at CCNPP.

9.0 SOP MAINTENANCE

The Director, Social Services, has overall responsibility to review and update this SOP at least annually. Telephone lists will be reviewed and updated quarterly.

ATTACHMENT #13

CALVERT COUNTY

AMERICAN RED CROSS STANDARD OPERATING PROCEDURES

1.0 RESPONSIBILITIES

The responsibilities of the American Red Cross are outlined in the Calvert County Radiological Emergency Plan. The American Red Cross is the key agency for Mass Care and related public information and is supported by the County Health Department, Department of Social Services, Board of Education and County Department of General Services.

2.0 COMMAND AND COORDINATION

2.1 The Calvert County Chapter Disaster Chair or alternate(s), the Chapter Chairman and/or Executive Director is in charge of the emergency response operations. The Chapter Chairman is responsible for ensuring that mass care centers are properly staffed and sufficient resources available for 24-hour operations for a protracted period.

2.2 Normal procedures will be utilized for obtaining necessary resources. When these sources become exhausted, request for additional resources will be made to the Director of Emergency Services, Central Maryland Chapter.

2.3 A record of activities shall be kept during the duration of the emergency. A record of man hours expended and other costs shall be maintained and submitted to the EM Specialist at the end of the emergency. Receipts will be provided.

3.0 IMPLEMENTATION

This section identifies the pre-planned response to each emergency class declared by CCNPP.

3.1 Unusual Event

No response required.

3.2 Alert

3.2.1 EOC notifies Disaster Chairman/Executive Director to report to EOC.

3.2.2 The Disaster Chairman notifies the Chapter Chairman and Executive Director.

3.3. Site Area Emergency

3.3.1 Same as for Alert.

3.3.2 ARC EOC representative will notify the Chapter Chairman/Executive Director of Emergency Services, Central Maryland Chapter . The ARC and Calvert County Health Department EOC representatives will coordinate to ensure Disaster Nurses report to all shelters.

3.4 **General Emergency**

3.4.1 Same as for Site Area Emergency.

4.0 NOTIFICATION AND COMMUNICATION

4.1 Initial Notification

Upon notification of an emergency;

4.1.1 Verify the authenticity and content of the message if caller is unknown by return call to Emergency Management.

4.1.2 The Disaster Chairman or alternate Chapter Chairman/Executive Director, will initiate the Red Cross call up.

4.2 Communications

4.2.1 Communications between Red Cross will be by commercial telephone.

4.2.2 Red Cross communications with EOC will be by commercial telephone.

5.0 PARALLEL ACTIONS

5.1 Emergency Medical Services and Mass Care

When evacuation is imminent or has been ordered, request aid, if required, from Director of Emergency Services, Central Maryland Chapter. Give mass care center locations. The ARC and Health Department EOC representatives will notify Disaster Nurses where to report. Disaster Nurses will be assigned at each mass care center. A Disaster Representative (local/regional person) will notify other Disaster Representatives where to report. Disaster Representatives will be assigned at each mass care center. The Disaster Representative is the key local Red Cross contact for liaison with other Red Cross personnel at each mass care center.

OUR TASK: To register EVACUEES; help wherever and whenever needed (for example: provide medical services, food, cots and blankets). After emergency (post return phase): all Red Cross personnel will report in person or telephone the local Red Cross Disaster Chairman for further instructions/information. The Red Cross will open a Service Center after the return phase (after people have returned home and the return phase has been terminated) where people can appear or contact to get additional assistance. Red Cross and Emergency Management Director or designee will coordinate the location of the Service Center and will announce via the media.

5.2 Reception centers and mass care centers: Maps that depict reception centers and mass care centers in Calvert County are maintained in the EOC.

6.0 PUBLIC INFORMATION

6.1 The American Red Cross will provide the following information to the Emergency PIO:

6.1.1 Location of Mass Care Centers.

6.1.2 Telephone numbers of Mass Care Centers.

6.1.3 Procedure for locating evacuees

6.1.4 Statistical data as to number of Mass Care Centers open and number of evacuees.

6.2 All media requests for information must be forwarded to the Emergency PIO for Calvert County. Any assistance requested by the Emergency PIO will be provided.

7.0 EXERCISES AND DRILLS

The American Red Cross will participate in exercises and drills at least once every two years.

8.0 TRAINING

The American Red Cross personnel will participate in training programs by State and local governments to prepare them in dealing with emergencies at CCNPP.

9.0 SOP MAINTENANCE

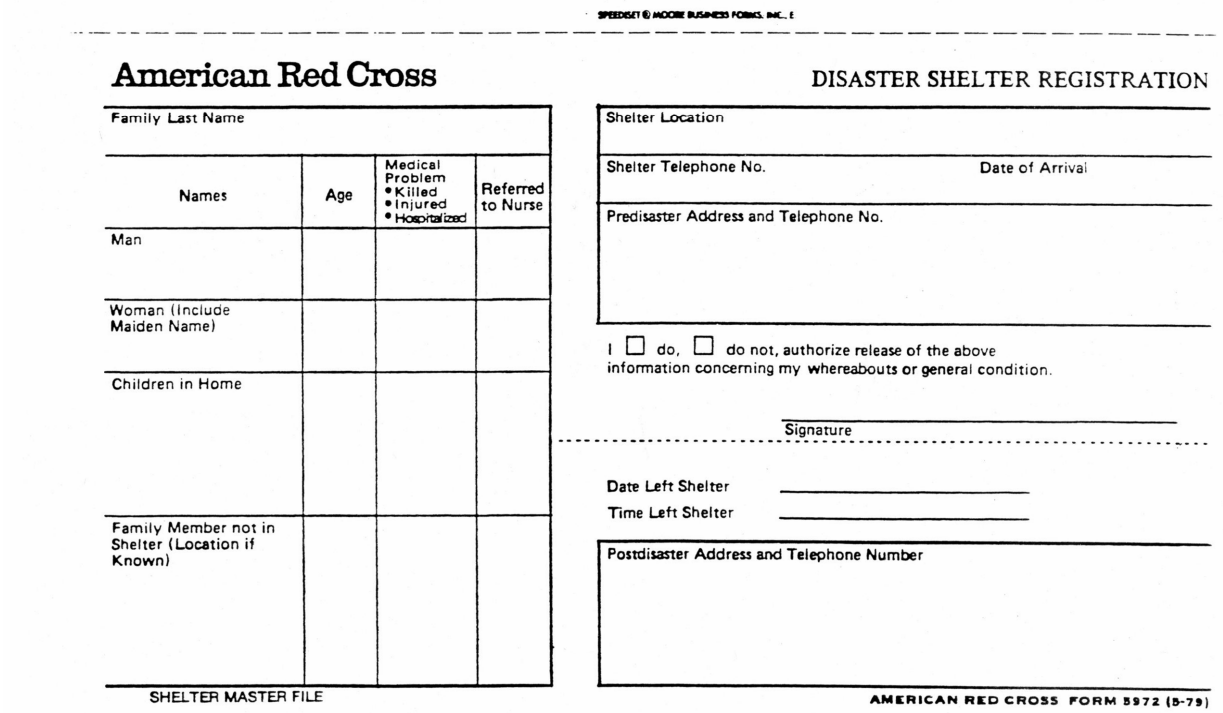
The American Red Cross Disaster Chairman has overall responsibility to review and update this SOP at least annually. Telephone lists will be reviewed and updated quarterly.

TAB A

AMERICAN RED CROSS

RELOCATION CENTER REGISTRATION FORM

AMERICAN RED CROSS (sample)



SPEEDISET © MOORE BUSINESS FORMS, INC., E

American Red Cross

DISASTER SHELTER REGISTRATION

Family Last Name

Names	Age	Medical Problem • Killed • Injured • Hospitalized	Referred to Nurse
Man			
Woman (Include Maiden Name)			
Children in Home			
Family Member not in Shelter (Location if Known)			

SHELTER MASTER FILE

Shelter Location

Shelter Telephone No. Date of Arrival

Predisaster Address and Telephone No.

I ☐ do, ☐ do not, authorize release of the above information concerning my whereabouts or general condition.

Signature

Date Left Shelter

Time Left Shelter

Postdisaster Address and Telephone Number

AMERICAN RED CROSS FORM 5972 (5-79)

TAB B

1.0 PURPOSE

1.1 The purpose of this attachment is to establish guidelines for the evacuation of the handicapped.

2.0 ASSUMPTIONS

2.1 It is assumed that the great majority of the handicapped and disabled population is cared for or supervised and would not require any special transportation needs, etc.

3.0 CONCEPTS

3.1 In the event an evacuation is ordered, and there are handicapped and/or disabled persons requiring assistance, the following procedures will apply:

3.1.1 From a prepared list, maintained in the Calvert County EOC, and at the office of the Calvert County Public Schools Transportation Supervisor or his designee (for students), special transportation and aid will be dispatched. This would include:

3.1.1.1 Specially equipped school buses

3.1.1.2 Specially equipped County owned buses

3.1.1.3 Ambulance

3.1.1.4 Police vehicles

3.1.1.5 Med-Evac helicopters

- **NOTE** -

The following agencies and other means will be utilized to gather and compile current data:

3.1.1.5.1 Calvert County Social Services

3.1.1.5.2 Calvert County Health Department

3.1.1.5.3 Calvert County Chapter of ARC

3.1.1.5.4 Calvert Public School System. They have confidential information on student population. This information would be

available to the transportation supervisor in time of an emergency.

3.1.1.5.5 Through a questionnaire in the local papers.

3.1.1.5.6 Through a follow-up appeal to the citizens in the local papers.

3.1.1.5.7 Through mail-back cards provided in the annual Public Information Brochure.

ATTACHMENT #14

CALVERT COUNTY

MARYLAND STATE POLICE - BARRACK "U" STANDARD OPERATING PROCEDURE

1.0 RESPONSIBILITIES

The responsibilities of the Maryland State Police Barrack "U" are outlined in the Calvert County Radiological Emergency Plan. The Maryland State Police is the key agency for Access Control, Law Enforcement and Crime Prevention and is a support agency for Accident Assessment, Evacuation, Take Shelter, Thyroid Protection and Re-entry, and public information.

2.0 COMMAND AND COMMUNICATION

2.1 The Barrack Commander or the Assistance Barrack Commander is in charge of the emergency response operations in coordination with the Director of Emergency Management or designee. The Barrack Commander is responsible for ensuring that sufficient resources and manpower are available for 24-hour operations for the duration of an emergency at the Calvert Cliffs Nuclear Power Plant.

2.2 A record of activities shall be kept during the duration of the emergency. A record of man hours expended and other costs shall be maintained and submitted to the Emergency Management Specialist at the end of the emergency. Receipts shall be provided when available so that possible reimbursement may be made to the Agency.

3.0 IMPLEMENTATION

The type of response and notification will be determined by the classification of the emergency incident.

3.1 **Unusual Event** - no response required.

3.2 **Alert**

3.2.1 The Duty Officer shall notify the Barrack Commander.

3.2.2 The Barrack Commander or the Assistant Barrack Commander will report to the EOC.

3.3 **Site Area Emergency**

3.3.1 The Duty Officer shall notify the Barrack Commander to report to the Emergency Operations Center (E.O.C.).

3.3.2 The Region Commander shall be notified and all other personnel are to be notified as noted below.

3.4 **General Emergency**

3.4.1 Same as for a Site Area Emergency.

4.0 NOTIFICATION AND COMMUNICATION

4.1 Initial Notification

Upon notification of an emergency;

4.1.1 The Barrack Duty Officer may, if the caller is unknown to him, verify the authenticity and content of the message by return call.

4.1.2 The Barrack Duty Officer will notify the Barrack Commander and Assistant Barrack Commander. The Barrack Commander (in his absence the Assistant Barrack Commander) will assume responsibility for notifying the Region Commander.

4.1.3 The Assistant Barrack Commander (in his absence the Barrack Commander) will be responsible for notifying off duty Sergeants assigned to the Prince Frederick Barrack.

4.1.4 The Sergeants will be responsible for notifying off duty Corporals directly under their supervision.

4.1.5 The Corporals in turn will notify personnel directly under their supervision.

4.1.6 In the event that one of the responsible parties listed above cannot be contacted, the next senior individual, subordinate to the absent party, will assume the notification responsibilities of the absent party. Upon the arrival of additional personnel at the briefing area, the Duty Officer will notify or cause to be notified, the other State Police personnel residing in Calvert County, but not assigned to the Prince Frederick Barrack. Personnel will provide the duty officer with the list of subordinates they have notified and the times of notification.

4.1.7 In the event that telephone service is not available, radio contact will be made with those State Police installations in whose area personnel assigned to this Barrack reside and requests will be made to contact those personnel. Personnel residing in Calvert County will be grouped geographically and two on duty personnel will be dispatched to make direct contact. As contact is made, personnel within a geographic grouping will begin notifying others within the same grouping.

4.1.8 In order to implement the aforementioned notification process, Barrack "U" personnel will have a current list of State Police personnel assigned to the Prince Frederick Barrack as well as State Police personnel assigned elsewhere, but residing in Calvert County. This list will indicate phone numbers, addresses, and detailed instructions as to the location of the residences. Barrack personnel will be required to demonstrate to their supervisors that they have personally checked the location of each listed

residence located in Calvert County. Barrack personnel residing outside Calvert County will be required to provide their name, telephone number, and address, including directions to their home to the State Police installation in whose area they reside.

4.1.9 Immediately upon notification, personnel will report to the Barrack "U" in Prince Frederick which is located at 210 Main Street, for briefing prior to their actual assignment. Command personnel and a representative of the County Emergency Management Division will conduct the briefing. Personnel will then be assigned to specific staging areas for evacuation and/or traffic details. Instruction packets delineating areas to be evacuated will be distributed. Dosimeters and potassium iodide will be distributed after briefing.

4.2 **Communications**

4.2.1 Communications with Barrack personnel and/or EOC will be by commercial telephone, radio, and direct personal contact. Communications with the EOC will be by State Police radios.

5.0 ACCIDENT ASSESSMENT

5.1 Maryland State Police Barrack "U" is a support agency for Accident Assessment. The Maryland State Police Barrack "U" will support the accident assessment operations by providing transportation and communications for field monitoring teams and equipment as necessary.

6.0 PROTECTIVE ACTIONS

The Maryland State Police Barrack "U" is a support agency for Take Shelter Thyroid Protection and for Evacuation. The Maryland State Police Barrack "U" is a key agency for Access Control.

- CAUTION -

Before dispatching any personnel, check with the County Radiological Officer on the status of the emergency. If radiation has been released, all personnel will be briefed on expected dose rates and maximum stay times. Each Trooper will be issued self-reading dosimeter (SRDs May be shared) and a permanent dosimeter (TLD.) and each team will have radio communications to the County Communications Center. The MSP command person conducting the briefing at the Assembly area will issue the dosimeters and TLDs. The County Health Department will maintain the dosimetry log after the emergency. Copies of the dosimetry log will be detained by the Barrack Commander and forwarded to the Medical Division for inclusion in the members file.

6.1 **Take Shelter**

6.1.1 Once a decision to "take shelter" has been made and the areas for this action delineated by the decision authority, the public will be notified by the following means:

6.1.1.1 Use of the Emergency Alert System preceded by activation of the public warning system or use of Code Red phone system.

6.1.1.2 Use of portable public address systems to reach camping grounds and community shopping centers or stores.

6.1.1.3 Use of vessel-to-vessel and portable megaphones notification by the Department of Natural Resources Police.

6.2 **Thyroid Protection**

6.2.1 Once a decision to "ingest potassium iodide" has been made and the areas for this action delineated by the decision authority, the public will be notified by the following means:

6.2.1.1 Use of the Emergency Alert System preceded by activation of the public warning system or use of Code Red phone system

6.2.1.2 Use of portable public address systems to reach camping grounds and community shopping centers or stores.

6.2.1.3 Use of vessel-to-vessel and portable megaphones notification by the Department of Natural Resources Police.

6.2.2 At the same time, access control points will be established to segregate the areas wherein "take shelter" is being implemented in order to prevent people from entering the affected areas and becoming unnecessarily exposed. Information concerning these access control points is contained in the packets distributed at the briefing.

6.2.3 The Maryland State Police Barrack "U" supports the Emergency Management Division's shelter operations by dispatching police vehicles equipped with public address systems to inform the public to take shelter procedures.

6.3 **Evacuation**

The Maryland State Police Barrack "U" will support the Sheriff's Department in evacuation operations by dispatching traffic control and police vehicles equipped with the public address systems to notify the public of evacuation procedures. Specific procedures to be followed are contained in the packets.

6.4 **Access Control**

The Maryland State Police Barrack "U", as the key agency is access control operations, will establish roadblocks and man the pre-designated access control points. (Reference TAB A).

7.0 PARALLEL ACTIONS

7.1 **Law Enforcement and Crime Prevention**

7.1.1 The Maryland State Police Barrack "U", as the key agency in law enforcement and crime prevention operations, will maintain civil order during and after the emergency. The Sheriff's Department supports MSP in law enforcement and crime prevention providing personnel and vehicles.

7.2 **Return:**

When the need for a protective action has passed and the authority for its implementation has determined that an actual or potential threat no longer exists, the MSP will support the Emergency Management Division in return operations by the following actions:

7.2.1 Informing the public, and

7.2.2 Securing Access Control Points, and,

7.2.3 Controlling traffic and,

7.2.4 Remaining at their station until relieved by order of the Commanding Officer, at which time all personnel will report the decontamination center for decontamination by exposure control personnel. After decontamination has been accomplished, personnel will report for debriefing to a location specified at that time.

8.0 PUBLIC INFORMATION

All media requests for information must be forwarded to the Emergency PIO for Calvert County. Any assistance requested by the Emergency PIO will be provided consistent with available manpower.

9.0 EXERCISES AND DRILLS

The MSP, Barrack "U", will participate in exercises and drills at least once every two years.

10.0 TRAINING

Personnel of Barrack "U" will attend training programs provided by State and local governments to prepare them in dealing with emergencies at CCNPP.

11.0 SOP MAINTENANCE

The Commander, Barrack "U", has overall responsibility to review and update this SOP at least annually. Telephone call lists will be reviewed and updated annually.

Tab A

ACCESS CONTROL POINTS BY ZONE

CALVERT COUNTY

Zone 1

C-1	-	Maryland Route 2/4 at Calvert Beach Road
C-2	-	Maryland 765 at Calvert Beach Road
C-3	-	Maryland Route 2/4 at Parran Road
C-4	-	Sollers Wharf Road at Old Mill Road

Zone 2

C-8	-	Maryland Route 2/4 at Maryland 264
C-9	-	Maryland 264 at Gray's Road
C-10	-	Maryland 264 at Ball Road
C-11	-	Maryland 264 at Maryland 265
C-12	-	Maryland 264 at Williams Wharf Road
C-13	-	Maryland 264 at Church Road

Zone 3

C-5	-	Maryland Route 2/4 at St. Paul's Branch Bridge
C-6	-	Maryland 765 at Cover Point Road
C-7	-	Maryland Route 2/4 at the base of the Thomas Johnson Bridge

Zone 4

C-17	-	Maryland 231 at German Chapel Road
C-18	-	Adelina Road at Sixes Road
C-19	-	Maryland 231 at Maryland Route 2/4 (NOTE: this location has been changed from Adelina Road at Sheridan Point Road as indicated on the Calvert Cliffs 10 mile EPZ map).

Zone 5

C-14	-	Maryland 402 at Wilson Road
C-15	-	Maryland 402 at Double Oak Road
C-16	-	Maryland 765 at Calvert Towne Road

ST. MARY'S COUNTY

Zone 6

S-1	-	Maryland 235 at Sandgates Road (north end)
S-2	-	Maryland 235 at Sandgates Road (south end)
S-3	-	Maryland 235 at Jones Wharf Road
S-4	-	Maryland 235 at Maryland 245
S-13	-	Friendship School Road south of Old Three Notch Road
S-14	-	McIntosh Road south of Riva Ridge Drive
S-15	-	Maryland 245 at Old Three Notch Road
S-16	-	Maryland 245 at St. John's Road
S-17	-	Maryland 245 at Stee Horn Neck Road

Zone 7

S-5	-	Maryland 235 at Joy Chapel Road
S-6	-	Maryland 235 at Clark's Landing Road
S-7	-	Maryland 235 at Old Three Notch Road (north end)
S-8	-	Maryland 235 at Maryland Route 4
S-9	-	Maryland 235 at Maryland 237
S-10	-	Maryland 235 at Millstone Landing Road
S-11	-	Maryland 235 at Maryland 246
S-12	-	Maryland 4 at Bill Dixon Road (underpass)
S-18	-	Maryland 4 at Wildewood Road
S-19	-	St. John's Road at Brown Road

DORCHESTER COUNTY

Zone 8

D-1	-	Maryland 16 at Smithville Road

ATTACHMENT #15

CALVERT COUNTY

DNR - NATURAL RESOURCES POLICE STANDARD OPERATING PROCEDURES

1.0 RESPONSIBILITIES

The responsibilities of the Natural Resources Police are outlined in the Calvert County Radiological Emergency Plan. The Natural Resources Police is a support agency for Accident Assessment, Evacuation, Take Shelter, Access Control, and Public Information. Additional support for the above actions and Food Control is provided by other DNR Agencies as coordinated and directed by the DNR representative in the State EOC.

2.0 COMMAND AND COORDINATION

2.1 The Regional Commander, Southern Region or his designee, is in charge of the emergency response operations in coordination with the Director of Emergency Management or designee. The Regional Commander is responsible for ensuring that the NRP is properly staffed and sufficient resources available for 24-hour operations for a protracted period.

2.2 Normal procedures will be utilized for obtaining necessary resources. When these sources become exhausted, request for additional resources will be made to the Natural Resources representative at the State EOC through the County EOC representative.

2.3 A record of activities shall be kept during the duration of the emergency. A record of man-hours expended and other costs shall be maintained and submitted to the County EM Specialist at the end of the emergency. Receipts will be provided.

3.0 IMPLEMENTATION

This section identifies the preplanned response to each emergency class declared by CCNPP.

3.1 **Unusual Event** - No response required.

3.2 **Alert**

3.2.1 The Calvert County Communications Center notifies the Regional Commander (EOF representative) to report to the County EOC.

3.2.2 The Regional Commander notifies all other personnel of the emergency.

3.3 **Site Area Emergency**

3.3.1 The Calvert County Communications Center notifies the Regional Commander (EOC representative) to report to County EOC.

3.3.2 The Regional Commander notifies all other personnel to report to designated emergency worker assembly area for exposure control equipment and briefing.

3.4 **General Emergency**

3.4.1 Same as for Site Area Emergency.

4.0 NOTIFICATION AND COMMUNICATION

4.1 Initial Notification

Upon notification of an emergency;

4.1.1 The Regional Commander, may if the caller is unknown to him, verify the authenticity and content of the message by return call.

4.1.2 The Regional Commander will initiate a call up of all off-duty personnel assigned to the Region and Regional Commanders of adjacent Regions.

4.1.3 In order to implement the aforementioned notification process, the Regional Commander will have a current telephone list of NRP personnel which is updated at lest quarterly, but more often as required.

4.2 Communications

4.2.1 Communications with NRP personnel will be the normal channels of telephone and NRP radio.

5.0 ACCIDENT ASSESSMENT

5.1 The NRP is a support agency for Department of the Environment (MDE) Accident Assessment. The NRP will conduct on-water field monitoring and provide transportation over waterways for field monitoring teams, as directed by MDE.

6.0 PROTECTIVE ACTIONS

The NRP is a support agency for Take Shelter, Thyroid Protection, Evacuation, and for Access Control.

- CAUTION -

BEFORE DISPATCHING ANY PERSONNEL, CHECK WITH THE RO ON THE STATUS OF THE EMERGENCY. IF RADIATION HAS BEEN RELEASED, MAKE SURE ALL EMERGENCY WORKERS ARE BRIEFED ON EXPECTED DOSE RATES AND STAY TIMES. MAKE SURE EACH EMERGENCY WORKER IS ISSUED DIRECT READING DOSIMETERS, A TLD, RADIATION EXPOSURE RECORD, AND THAT EACH ITEM HAS RADIO COMMUNICATIONS TO THE COUNTY COMMUNICATIONS CENTER.

6.1 Take Shelter

The NRP will support the County EM in "Take Shelter "operations by notifying pleasure and commercial craft in the waters surrounding CCNPP to leave the area. The NRP will provide take shelter notification information to the mariners by public address systems from boats and/or motor vehicles, by personal contact, or by VHS or citizen's band radio. The NRP will also provide boat transportation for evacuees from special areas, if necessary.

6.1.1 Once a decision to "Take Shelter" has been made and the areas for this action delineated by the County EM Director or designee, the public will be notified by the following means:

6.1.1.1 Use of portable address systems to reach camping grounds and marinas.

6.1.1.2 Use of vessel-to-vessel notification by the Department of Natural Resources Police.

6.1.2 At the same time, access control points will be established to segregate the areas wherein "take shelter" is being implemented in order to prevent people from entering the effected areas and becoming unnecessarily exposed. Boat patrols will accomplish the same task on the water.

6.2 Thyroid Protection

The NRP will support the County EM in "Thyroid Protection "operations by notifying pleasure and commercial craft in the waters surrounding CCNPP to leave the area. The NRP will provide potassium iodide information to the mariners by public address systems from boats and/or motor vehicles, by personal contact, or by VHS or citizen's band radio. The NRP will also provide boat transportation for evacuees from special areas, if necessary.

6.2.1 Once a decision for the public to "ingest potassium iodide" has been made and the areas for this action delineated by the County EM Director or designee, the public will be notified by the following means:

6.2.1.1 Use of portable address systems to reach camping grounds and marinas.

6.2.1.2 Use of vessel-to-vessel notification by the Department of Natural Resources Police.

6.2.2 At the same time, access control points will be established to segregate the areas where "Thyroid Protection"" is being implemented in order to prevent people from entering the effected areas and becoming unnecessarily exposed. Boat patrols will accomplish the same task on the water.

6.3 Evacuation

The NRP will support the County EM Director/designee in evacuation operations by notifying pleasure and commercial craft in the waters surrounding CCNPP. The NRP will provide evacuation notification information to the mariners by public address systems from boats and/or motor vehicles, by personal contact, or by VHF or citizen's band radio. The NRP will also provide boat transportation for evacuees from special areas, if necessary.

6.4 Access Control

The NRP will support the County Emergency Management in access control operations by restricting the access of small craft along waterways through the establishment and maintenance of access control patrols.

7.0 PARALLEL ACTIONS

The NRP will provide support as requested, by County Emergency Management, at the order of the Regional Commander for return.

7.1 Return

7.1.1 The NRP will support the EM Director or designee in returns operations by providing boating and traffic control. (Resources - TAB A).

7.1.2 When return operations have been authorized by the County the boating public will be informed and Access Control patrols will be secured.

8.0 PUBLIC INFORMATION

All media request for information must be forwarded to the Emergency PIO for Calvert County in the EOC and the Emergency PIO will be provided information as requested.

9.0 EXERCISES AND DRILLS

The DNR will participate in exercises and drills at least once every two years.

10.0 TRAINING

The DNR will participate in training programs provided by the State or local government to prepare them in dealings with emergencies at CCNPP.

11.0 SOP MAINTENANCE

The DNR Region Commander has overall responsibility to update this SOP at least annually. Telephone lists will be reviewed and updated at least quarterly or more often if required.

TAB A

CALVERT COUNTY DNR - NATURAL RESOURCES POLICE

MARINE BOATS, VEHICLES, AND PERSONNEL RESOURCE LISTING

(This listing is maintained by the DNR Regional Commander and is available at the County EOC. The listing includes personnel and resources from other DNR Regions, which could provide assistance during A CCNPP emergency.)

ATTACHMENT 16

CALVERT COUNTY

CALVERT MEMORIAL HOSPITAL

STANDARD OPERATING PROCEDURES

1.0 RESPONSIBILITIES

The responsibilities of Calvert Memorial Hospital are outlined in the Dorchester REP. Calvert Memorial Hospital is a support agency for Emergency Medical Services and Decontamination.

2.0 COMMAND AND COORDINATION

See Calvert Memorial Hospital Disaster Plan.

3.0 IMPLEMENTATION

See Calvert Memorial Hospital Disaster Plan.

4.0 NOTIFICATION AND COMMUNICATION

See Calvert Memorial Hospital Disaster Plan.

5.0 PROTECTIVE ACTIONS

Calvert Memorial Hospital has no protective actions responsibilities.

6.0 PARALLEL ACTIONS

6.1 Emergency Medical Services

Calvert Memorial Hospital will provide Emergency Medical Assistance in accordance with Calvert Memorial Hospital Disaster Plan.

6.2 Decontamination

Contaminated patients may be treated at Calvert Memorial Hospital as per the Calvert Memorial Hospital Disaster Plan or may be evacuated to either Dorchester General or Harford Memorial Hospital, if necessary.

7.0 PUBLIC INFORMATION

All media requests for information must be forwarded to the Emergency PIO for Calvert County. Any information requested by the Emergency PIO will be provided.

8.0 TRAINING

See Calvert Memorial Hospital Disaster Plan.

9.0 EXERCISES AND DRILLS

See Calvert Memorial Hospital Disaster Plan.

ATTACHMENT #17

CALVERT COUNTY

FSA – FARM SERVICE AGENCY STANDARD OPERATING PROCEDURES

1.0 RESPONSIBILITIES

The responsibilities of the Farm Service Agency are outlined in the Calvert County Radiological Emergency Plan. The Farm Service is a support agency for Accident Assessment, Evacuation, Thyroid Protection, Take Shelter, Access Control, and Public Information. Additional support for the above actions and Food Control is provided by the USDA as coordinated and directed by the FSA representative in the State EOC.

2.0 COMMAND AND COORDINATION

2.1 The Director – FSA or his designee, is in charge of the emergency response operations in coordination with the Director of Emergency Management. The Director is responsible for ensuring that the FSA is properly staffed and sufficient resources available for 24-hour operation for a protracted period.

2.2 Normal procedures will be utilized for obtaining necessary resources. When these sources become exhausted, request for additional resources will be made to the USDA or Farm Service representative at the State EOC through the County EOC representative.

2.3 A record of activities shall be kept during the duration of the emergency. A record of man-hours expended and other costs shall be maintained and submitted to the County EM Director at the end of the emergency. Receipts will be provided.

3.0 IMPLEMENTATION

This section identifies the preplanned response to each emergency class declared by CCNPP.

3.1 **Unusual Event** – No response required.

3.2 **Alert**

3.2.1 The Calvert County Communications Center notifies the Director – FSA (EOC representative) to report to the County EOC.

3.2.2 The Director – FSA notifies all other personnel of the emergency.

3.2.3 Prepare and review agriculture advisory press releases with the PIO for potential release.

3.3 **Site Area Emergency**

3.3.1 The Calvert County Communications Center notifies the Director – FSA (EOC representative) to report to the County EOC.

3.3.2 The Director – FSA notifies all other personnel to report to designated emergency worker assembly area for exposure control equipment and briefing.

3.3.3 Notify farms and food processors of protective actions as warranted.

3.4 **General Emergency**

3.4.1 Same as Site Area Emergency.

4.0 NOTIFICAITON AND COMMUNICAITON

4.1 Initial Notifications

4.1.1 The Director – FSA, may if the caller is unknown to him, verify the authenticity and content of the message by return call to the EOC.

4.1.2 The Director – FSA will initiate a call up of all off-duty personnel assigned to the region and Director – FSA of adjacent Regions

4.1.3 In order to implement the aforementioned notification process, the Director – FSA will have a current telephone list of FSA personnel which is updated at least quarterly, but more often as required.

4.2 Communications

4.2.1 Communications with FSA personnel will be the normal channels of telephone.

5.0 ACCIDENT ASSESSMENT

5.1 The FSA is a support agency for Department of the Environment (MDE) Accident Assessment. The FSA will conduct on-water field monitoring and provide transportation field monitoring or farm sampling teams, as directed by MDE.

6.0 PROTECTIVE ACTIONS

The FSA is a support agency for Take Shelter, Evacuation, and for Access Control.

-CAUTION-

BEFORE DISPATCHING ANY PERSONNEL, CHECK WITH THE RO ON THE STATUS OF THE EMERGENCY. IF RADIATION HAS BEEN RELEASED, MAKE SURE ALL EMERGENCY WORKERS ARE BRIEFED ON EXPECTED DOSE RATES AND STAY TIMES. MAKE SURE EACH EMERGENCY WORKER IS ISSUED DIRECT READING DOSIMETERS, A TLD, RADIATION EXPOSURE RECORD, AND THAT EACH ITEM HAS RADIO COMMUNICATIONS TO THE COUNTY COMMUNICATIONS CENTER.

6.1 **Take Shelter, Thyroid Protection**

The FSA will support the County EM in take shelter and thyroid protection operations by notifying farmers surrounding CCNPP. The FSA will provide notification information to the farmers by motor vehicles, by personal contact, or by VHS or citizen's band radio. The FSA will also provide transportation for evacuees from special areas, if necessary.

6.1.1 Once a decision to "Take Shelter" or "Ingest KI" has been made and the areas for this action delineated by the County EM, the public will be notified by the following means:

6.1.1.1 Use of Emergency Alert System (EAS).

6.1.1.2 Use of vehicle public announcement

6.1.2 At the same time, access control points will be established to segregate the areas wherein "take shelter" or "thyroid protection" is being implemented in order to prevent people from entering the effected areas and becoming unnecessarily exposed.

6.2 **Evacuation**

The FSA will support the County, EM Director in evacuation operations by notifying farmers surrounding CCNPP. The FSA will provide evacuation notification information to the farmers by motor vehicles, by personal contact, or by VHF or citizen's band radio. The FSA will also provide vehicle transportation for evacuees from special areas, if necessary.

6.3 **Access Control**

The FSA will support the County Emergency Management in access control operations by restricting the access of small craft along waterways through the establishment and maintenance of access control patrols.

7.0 **PARALLEL ACTIONS**

The FSA will provide support as requested, by County Emergency Management for return.

7.1 **Return**

7.1.1 The FSA will support the EM Director in return operations

7.1.2 When return operations have been authorized by the County, the farmer's food processors and livestock owners will be informed and Access Control patrols will be secured.

7.2 **Re-entry**

7.2.1 The FSA will support the EM Director in re-entry operations

7.2.2 When re-entry operations have been authorized by the County, the farmer's food processors and livestock owners will be informed and Access Control patrols will be secured. Workers requiring access to the controlled area will be briefed as emergency workers and follow the guidelines described in Tab A.

8.0 PUBLIC INFORMATION

Agricultural advisories will be prepared and reviewed with the PIO. All media request for information must be forwarded to the County PIO in the EOC and the County PIO will be provided information as requested.

9.0 EXERCISES AND DRILLS

The FSA will participate in exercises and drills at least once every two years.

10.0 TRAINING

The FSA will participate in training programs provided by the State or local government to prepare them in dealings with emergencies at CCNPP.

11.0 SOP MAINTENANCE

The Director – FSA has overall responsibility to update this SOP at least annually. Telephone lists will be reviewed and updated at least quarterly or more often if required.

TAB A

Farmer Access to the Plume Exposure Pathway EPZ

A. Farmers as Emergency Workers

Farmers in the plume zone who have livestock and elect to maintain them at their home location are designated as emergency workers when the plume zone area is evacuated. In order for them to function in this capacity, stay in evacuate area, or exit and re-enter the controlled area to care for the livestock, they must be supplied with the following:

1. A means of identification
2. Self-reading dosimeter and TLD
3. A supply of potassium iodide (KI) with instructions for usage
4. A Dosimetry-KI Report Form
5. An update on the incident status at the time the above equipment is issued
6. Allowable stay-times and permissible doses of radiation
7. Instructions on turning in equipment and the exposure record.

B. Responsibilities of the USDA Representative

1. The Chairman of the County Emergency Board, or a representative will establish a location easily accessible and known to farmers that is outside the plume zone area (risk area) for distribution of the items required above.
2. The utilization of the form attached and its distribution will be coordinated with the Sheriff's EOC Representative.
3. The supply and distribution of proper dosimetry/KI will be coordinated with the Health Officer.
4. The Chairman of the County Emergency Board or a representative will maintain a file of the Emergency Worker Authorization form.
5. The Chairman, County Emergency Board, will coordinate with the EOC PIO to prepare a message to be broadcast over the Emergency Alert System, instructing the farmers to report to the proper location for receipt of the items indicated above.

C. Limitation of Access to the Plume Exposure Pathway

Proper authority will suspend this emergency worker status and the right to be in the plume zone (risk area) if the situation should become serious enough to warrant this action.

TAB A

EMERGENCY WORKER AUTHORIZATION

(Name) _____

(Address) _____, is authorized access to the plume exposure pathway emergency zone (EPZ) surrounding Calvert Cliffs Nuclear Power Plant for the period extending from (Date) _____ (Time)_____ to (Date)_____ _____ (Time) _____. This individual is to be issued dosimetry and KI and is to have access to the controlled area (EPZ) for the exclusive purpose of _____ _____ _____ _____.

Location: _____

_____

Telephone Number: _____

Identification Data:

Height: _____ Hair Color: _____

Weight: _____ MD Dr License No.: _____

Radiological Equipment Issued:

DRD Serial No.: _____ TLD Serial No.: _____

Individual Printed Name and Signature: _____ _____

County Representative's Signature: _____ Date:_____

Protective Action Guide for Farmers and Food Processors

This section provides information for farmers and food processors that will assist in the protection of livestock, crops and food products from radiological contamination.

A. GENERAL INFORMATION

1. The Maryland Emergency Management Agency (MEMA), in coordination with licenses, Maryland Department of the Environment (MDE), and other state agencies, will provide specific information following an incident concerning amounts and types of releases. This information will contain available warning time, the probable duration and quantities, and the mix of radiocontaminant discharge. Generally, in a fixed nuclear site incident radioiodine will be the major contaminant, although it is possible that other radiocontaminants also will be released.

2. Experience has shown that the time from the depositing of radioiodine on the pasture to the appearance of significant quantities of radioiodine in cow's milk may be as short as the time lapse between milking (12 hours). It is extremely important, therefore, that actions to minimize milk contamination be taken as early as possible.

3. Several options are available for the protection of the public from exposure to radioiodine through the milk food chain.

    a. Remove dairy cattle and other milk-producing animals from the pasture in the affected area as soon as possible and provide feed and water from sources that are not contaminated.

    b. Dispose of contaminated milk; as determined by a sample to be taken by the appropriate state agency.

4. These are suggested priorities for sheltering and feeding farm animals with stored food and water:

    a. Dairy cattle and other milk-producing animals

    b. Egg-producing fowl

    c. Breeding stock

    d. Other livestock

5. No attempts should be made to evacuate farm animals from the 10-maile or 50-mile EPZ as priority for evacuation will be given to the public.

Protective Action Guide for Farmers and Food Processors (Cont'd)

6. A shelter can be a barn, shed, garage, or other building. If these are not available, a roadway underpass or a wooded area is better than no cover at all.

7. Crops that have been harvested before the accident should be covered or put in a covered area, if possible. An emergency supply of water should also be kept in covered containers, e.g. barrels, cisterns and wells.

8. The EAS will broadcast advisories and guidance.

B. INFORMATION FOR FOOD PROCESSORS

The primary objective of the food processor must be to prevent the contamination of the public through the processing of contaminated food. The burden of protecting the public from contamination through ingestion of contaminated foods provided by the food processors rests directly on the processors. They must take whatever actions are necessary to ensure that the foods processed for consumption by the public are not contaminated.

RECOMMENDED PROTECTIVE ACTION FOR FOOD

A. Foods stored in the home will virtually always be free of radioactive contamination and therefore suitable for immediate use. This pertains to food stored in a normal manner (i.e., food stored in the refrigerator, cabinets and containers or package), but not necessarily to foods in the open such as fruit, cookies or candy in uncovered dishes. Therefore, unless advised otherwise, the public can assume that no special measures are necessary in preparing stored foods for consumption.

B. Food not stored indoors or similarly protected, such as garden vegetables, fruit on trees, or food products obtained outside the home after the incident, could be contaminated. Contamination, however, does not render such foods unusable. Most foods can easily be decontaminated by fairly simple food preparation procedures.

C. In fixed nuclear facility incidents involving the release of radioactive iodine, cows may ingest the contaminant and produce milk with some degree of contamination. Only milk produced after any exposure of the cows to contaminated feed (not milk stored in the home or already packaged milk at the dairy or store) is subject to radioactive iodine contamination.

D. The following procedures for various food types are generally considered to be effective protective measures in assuring that food is free of contamination and suitable for consumption.

1.	Root Crops (potatoes, carrots, etc.)	Thoroughly wash, brush, scrub or peel to remove surface contamination. Root crops are the least susceptible to contamination since the soil protects the edible portion from immediate contamination. Care should be take in digging and storing to prevent contact with contaminated surfaces.
2.	Fruits and Vegetables	Thoroughly wash, brush, scrub or peel to remove surface contamination. These food products are susceptible to contamination due to the exposed surface area of the edible portion.
3.	Canned or Packaged Foods	Thoroughly clean the surface of the package by washing, vacuuming or using a damp cloth to remove surface contamination prior to opening.
4.	Frozen Foods	Frozen foods packaged prior to an incident involving radioactive contamination will be safe as long as they were kept in a freezer. If the surface becomes contaminated, it should be thoroughly cleaned off prior to opening to prevent contaminating the contents.
5.	Unpacked Stored Foods	These foods will be safe to eat if outside air has been excluded from the storage area. If the storage area has become contaminated, they may be able to be salvaged by brushing, scrubbing, peeling, etc. This will depend upon the type of food item involved.