

**SHEARON HARRIS NUCLEAR POWER PLANT UNITS 1, 2, AND 3  
COL APPLICATION  
PART 5, EMERGENCY PLAN – CROSS REFERENCE DOCUMENT**

**Part 1**

**10 CFR 50 Appendix E Emergency Preparedness Cross Reference**

REGULATION	STATEMENT	EPLAN	OTHER	COMMENTS
IV A.	The organization for coping with radiological emergencies shall be described, including definition of authorities, responsibilities, and duties of individuals assigned to the licensee's emergency organization	B.2, B.3, B.4		
IV A.	and the means for notification of such individuals in the event of an emergency.	E.1		
IV A.1	A description of the normal plant operating organization.	B.2		
IV A.2.a	A description of the onsite emergency response organization with a detailed discussion of:  Authorities, responsibilities, and duties of the individual(s) who will take charge during an emergency;	B.2, B.3, B.4		
IV A.2.b	Plant staff emergency assignments;	B.4		
IV A.2.c	Authorities, responsibilities, and duties on an onsite emergency coordinator who shall be in charge of the exchange of information with offsite authorities responsible for coordinating and implementing offsite emergency measures.	B.4.1		
IV A.3	A description, by position and function to be performed, of the licensee's headquarters personnel who will be sent to the plant site to augment the onsite emergency organization.	B.4.4, B.4.5		
IV A.4	Identification, by position and function to be performed, of persons within the licensee organization who will be responsible for making offsite dose projections, and a description of how these projections will be made and the results transmitted to State and local authorities, NRC, and other appropriate governmental entities.	B.4.3.h, B.4.4.m-o, B.4.4.q-r, F.3, F.4, H.3.1, I.4		

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IV A.5	Identification, by position and function to be performed, of other employees of the licensee with special qualifications for coping with emergency conditions that may arise. Other persons with special qualifications, such as consultants, who are not employees of the licensee and who may be called upon for assistance for emergencies shall also be identified. The special qualifications of these persons shall be described.	A.5		
IV A.6	A description of the local offsite services to be provided in support of the licensee's emergency organization.	L.3		
IV A.7	Identification of, and assistance expected from, appropriate State, local, and Federal agencies with responsibilities for coping with emergencies.	C.1, C.2		
IV A.8	Identification of the State and/or local officials responsible for planning for, ordering, and controlling appropriate protective actions, including evacuations when necessary.	J.2		
IV B	The means to be used for determining the magnitude of and for continually assessing the impact of the release of radioactive materials shall be described,	I.1.1, I.2, I.3, I.4, I.5, I.6, I.7, I.8, I.9, I.10		
IV B (continued)	including emergency action levels that are to be used as criteria for determining the need for notification and participation of local and State agencies, the Commission, and other Federal agencies,	Annex 1 (A1-2), Annex 2 (A2-2), E.2		
IV B (continued)	and the emergency action levels that are to be used for determining when and what type of protective measures should be considered within and outside the site boundary to protect health and safety.	Annex 1 (A1-2), Annex 2 (A2-2), J.2.2, J.2.3, J.2.4		
IV B (continued)	The emergency action levels shall be based on in-plant conditions and instrumentation in addition to onsite and offsite monitoring.	Annex 1 (A1-2), Annex 2 (A2-2.1)		
IV B (continued)	These emergency action levels shall be discussed and agreed on by the applicant and State and local governmental authorities and approved by NRC.	P.2		
IV B (continued)	They shall also be reviewed with the State and local governmental authorities on an annual basis.	P.2		

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IV C	The entire spectrum of emergency conditions that involve the alerting or activating of progressively larger segments of the total emergency organization shall be described.	D.1		
IV C (continued)	The communication steps to be taken to alert or activate emergency personnel under each class of emergency shall be described.	E.2		
IV C (continued)	Emergency action levels (based not only on onsite and offsite radiation monitoring information but also on readings from a number of sensors that indicate a potential emergency, such as the pressure in containment and the response of the Emergency Core Cooling System) for notification of offsite agencies shall be described.	Annex 1, Section 2; Annex 2, Section 2		
IV C (continued)	The existence, but not the details, of a message authentication scheme shall be noted for such agencies.	E.2		
IV C (continued)	The emergency classes defined shall include: (1) notification of unusual events, (2) alert, (3) site area emergency, and (4) general emergency. These classes are further discussed in NUREG - 0654; FEMA - REP - 1.	D.1		
IV D.1	Administrative and physical means for notifying local, State, and Federal officials and agencies and agreements reached with these officials and agencies for the prompt notification of the public and for public evacuation or other protective measures, should they become necessary, shall be described. This description shall include identification of the appropriate officials, by title and agency, of the State and local government agencies within the EPZs.	E.2		
IV D.2	Provisions shall be described for yearly dissemination to the public within the plume exposure pathway EPZ of basic emergency planning information, such as the methods and times required for public notification and the protective actions planned if an accident occurs, general information as to the nature and effects of radiation, and a listing of local broadcast stations that will be used for dissemination of information during an emergency. Signs or other measures shall also be used to disseminate to any transient population within the plume exposure	G.1, G.2		

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	pathway EPZ appropriate information that would be helpful if an accident occurs.			
<u>IV D.3</u>	A licensee shall have the capability to notify responsible State and local governmental agencies within 15 minutes after declaring an emergency.	E.2		
IV D.3 (continued)	The design objective of the prompt public notification system shall be to have the capability to essentially complete the initial notification of the public within the plume exposure pathway EPZ within about 15 minutes. The use of this notification capability will range from immediate notification of the public (within 15 minutes of the time that State and local officials are notified that a situation exists requiring urgent action) to the more likely events where there is substantial time available for the State and local governmental officials to make a judgment whether or not to activate the public notification system. Where there is a decision to activate the notification system, the State and local officials will determine whether to activate the entire notification system simultaneously or in a graduated or staged manner. The responsibility for activating such a public notification system shall remain with the appropriate governmental authorities.	E.2, E.3		
IV 4.E.1	Adequate provisions shall be made and described for emergency facilities and equipment, including: Equipment at the site for personnel monitoring;	H.1, H.2, H.3		
IV 4.E.2	Equipment for determining the magnitude of and for continuously assessing the impact of the release of radioactive materials to the environment;	H.3; H.4; Annex 1, Section A1-4; Annex 2, Section A2-4		
IV 4.E.3	Facilities and supplies at the site for decontamination of onsite individuals;	H.1; J.1; K.4; Annex 1, Section A1-4, Annex 2, Section A2-4		
IV 4.E.4	Facilities and medical supplies at the site for appropriate emergency first aid treatment;	L.1.1		
IV 4.E.5	Arrangements for the services of physicians and other medical personnel qualified to handle radiation emergencies on-site;	L.3, L.4		
IV 4.E.6	Arrangements for transportation of contaminated injured individuals from the site to specifically identified treatment	L.2		

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	facilities outside the site boundary;			
IV 4.E.7	Arrangements for treatment of individuals injured in support of licensed activities on the site at treatment facilities outside the site boundary;	L.3		
IV 4.E.8	A licensee onsite technical support center and a licensee near-site emergency operations facility from which effective direction can be given and effective control can be exercised during an emergency;	Annex 1, Section 3.2; Annex 2, Section 3.2; H.1.4		
IV 4.E.9	At least one onsite and one offsite communications system; each system shall have a backup power source. All communication plans shall have arrangements for emergencies, including titles and alternates for those in charge at both ends of the communication links and the primary and backup means of communication.	F.1, F.2		
IV 4.E.9.a	Where consistent with the function of the governmental agency, these arrangements will include: Provision for communications with contiguous State/local governments within the plume exposure pathway EPZ. Such communications shall be tested monthly.	N.2.1.b		
IV 4.E.9.b	Provision for communications with Federal emergency response organizations. Such communications systems shall be tested annually.	N.2.1.c		
IV 4.E.9.c	Provision for communications among the nuclear power reactor control room, the onsite technical support center, and the near-site emergency operations facility; and among the nuclear facility, the principal State and local emergency operations centers, and the field assessment teams. Such communications systems shall be tested annually.	N.2.1.d		
IV 4.E.9.d	Provisions for communications by the licensee with NRC Headquarters and the appropriate NRC Regional Office Operations Center from the nuclear power reactor control room, the onsite technical support center, and the near-site emergency operations facility. Such communications shall be tested monthly.	N.2.1.b		
IV F.1.i	The program to provide for: (a) The training of employees and exercising, by periodic drills, of radiation emergency	O.1, O.2		

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	plans to ensure that employees of the licensee are familiar with their specific emergency response duties, and (b) The participation in the training and drills by other persons whose assistance may be needed in the event of a radiation emergency shall be described. This shall include a description of specialized initial training and periodic retraining programs to be provided to each of the following categories of emergency personnel:  Directors and/or coordinators of the plant emergency organization;			
IV F.1.ii	Personnel responsible for accident assessment, including control room shift personnel;	O.1.b		
IV F.1.iii	Radiological monitoring teams;	O.1.c		
IV F.1.iv	Fire control teams (fire brigades);	O.1.j		
IV F.1.v	Repair and damage control teams;	O.1.d		
IV F.1.vi	First aid and rescue teams;	O.1.e		
IV F.1.vii	Medical support personnel;	O.1.h		
IV F.1.viii	Licensee's headquarters support personnel;	O.1.i		
IV F.1.ix	Security personnel.	O.1.j		
IV F.1	In addition, a radiological orientation training program shall be made available to local services personnel; e.g., local emergency services/Civil Defense, local law enforcement personnel, local news media persons.	O.1, O.3		
IV F.2	The plan shall describe provisions for the conduct of emergency preparedness exercises as follows: Exercises shall test the adequacy of timing and content of implementing procedures and methods, test emergency equipment and communications networks, test the public notification system, and ensure that emergency organization personnel are familiar with their duties.	N.1		
IV F.2.a	A full participation exercise which tests as much of the licensee, State and local emergency plans as is reasonably achievable without mandatory public participation shall be conducted for each site at which a power reactor is located.	N.1		
IV F.2.b	Each licensee at each site shall conduct an exercise of its	N.1		

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	onsite emergency plan every 2 years. The exercise may be included in the full participation biennial exercise required by paragraph 2.c. of this section. In addition, the licensee shall take actions necessary to ensure that adequate emergency response capabilities are maintained during the interval between biennial exercises by conducting drills, including at least one drill involving a combination of some of the principal functional areas of the licensee's onsite emergency response capabilities.			
IV F.2.c	Offsite plans for each site shall be exercised biennially with full participation by each offsite authority having a role under the plan. Where the offsite authority has a role under a radiological response plan for more than one site, it shall fully participate in one exercise every two years and shall, at least, partially participate in other offsite plan exercises in this period.	N.1		
IV F.2.d	A State should fully participate in the ingestion pathway portion of exercises at least once every six years. In States with more than one site, the State should rotate this participation from site to site.	N.1		
IV F.2.e	Licensees shall enable any State or local Government located within the plume exposure pathway EPZ to participate in the licensee's drills when requested by such State or local Government.	N.1		
IV F.2.f	Remedial exercises will be required if the emergency plan is not satisfactorily tested during the biennial exercise, such that NRC, in consultation with FEMA, cannot find reasonable assurance that adequate protective measures can be taken in the event of a radiological emergency. The extent of State and local participation in remedial exercises must be sufficient to show that appropriate corrective measures have been taken regarding the elements of the plan not properly tested in the previous exercises.	N.1		
IV F.2.g	All training, including exercises, shall provide for formal critiques in order to identify weak or deficient areas that need correction. Any weaknesses or deficiencies that are identified shall be corrected.	N.1, N.2.6		

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IV F.2.h	The participation of State and local governments in an emergency exercise is not required to the extent that the applicant has identified those governments as refusing to participate further in emergency planning activities, pursuant to 10 CFR 50.47(c)(l). In such cases, an exercise shall be held with the applicant or licensee and such governmental entities as elect to participate in the emergency planning process.	N/A		
IV G	Provisions to be employed to ensure that the emergency plan, its implementing procedures, and emergency equipment and supplies are maintained up to date shall be described.	P.2		
IV H	Criteria to be used to determine when, following an accident, reentry of the facility would be appropriate or when operation could be resumed shall be described.	M.5		



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**Part 2**

**10 CFR 50.47 Emergency Preparedness Cross Reference**

REGULATION	STATEMENT	EPLAN	OTHER	COMMENTS
(b) 1	The onsite and, except as provided in paragraph (d) of this section, offsite emergency response plans for nuclear power reactors must meet the following standards: Primary responsibilities for emergency response by the nuclear facility licensee and by State and local organizations within the Emergency Planning Zones have been assigned,	A.1		
(b) 1 (continued)	the emergency responsibilities of the various supporting organizations have been specifically established,	A.1, A.5		
(b) 1 (continued)	and each principal response organization has staff to respond and to augment its initial response on a continuous basis.	A.1, A.2, A.3, A.4, A.5, A.6		
(b) 2	On-shift facility licensee responsibilities for emergency response are unambiguously defined,	B.1		
(b) 2 (continued)	timely augmentation of response capabilities is available	B.2		
(b) 2 (continued)	and the interfaces among various onsite response activities and offsite support and response activities are specified.	Figure A-1, Figure A-2		
(b) 3	Arrangements for requesting and effectively using assistance resources have been made,	A.4, A.5		
(b) 3 (continued)	arrangements to accommodate State and local staff at the licensee's near-site Emergency Operations Facility have been made,	C.3		
(b) 3 (continued)	and other organizations capable of augmenting the planned response have been identified.	C.4		
(b) 4	A standard emergency classification and action level scheme, the bases of which include facility system and effluent parameters, is in use by the nuclear facility licensee,	D.1		
(b) 4 (continued)	and State and local response plans call for reliance on information provided by facility licensees for determinations of minimum initial offsite response measures.	E.2		
(b) 5	Procedures have been established for notification, by the licensee, of State and local response organizations	E.2		
(b) 5 (continued)	and for notification of emergency personnel by all	E.2		

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	organizations;			
(b) 5 (continued)	the content of initial and follow up messages to response organizations and the public has been established;	E.2		
(b) 5 (continued)	and means to provide early notification and clear instruction to the populace within the plume exposure pathway Emergency Planning Zone have been established.	E.3		
(b) 6	Provisions exist for prompt communications among principal response organizations to emergency personnel	F.1		
(b) 6 (continued)	and to the public.	F.3		
(b) 7	Information is made available to the public on a periodic basis on how they will be notified and what their initial actions should be in an emergency (e.g., listening to a local broadcast station and remaining indoors),	G.1		
(b) 7 (continued)	the principal points of contact with the news media for dissemination of information during an emergency (including the physical location or locations) are established in advance,	G.1		
(b) 7 (continued)	and procedures for coordinated dissemination of information to the public are established.	G.2		
(b) 8	Adequate emergency facilities and equipment to support the emergency response are provided and maintained.	H.1		
(b) 9	Adequate methods, systems, and equipment for assessing and monitoring actual or potential offsite consequences of a radiological emergency condition are in use.	I		
(b) 10	A range of protective actions have been developed for the plume exposure pathway EPZ for emergency workers and the public.	J.1, J.2		
(b) 10 (continued)	Guidelines for the choice of protective actions during an emergency, consistent with Federal guidance, are developed and in place,	J.2.3, Table J-1		
(b) 10 (continued)	and protective actions for the ingestion exposure pathway EPZ appropriate to the locale have been developed.	J.2.4		
(b) 11	Means for controlling radiological exposures, in an	K.1, K.2		

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	emergency, are established for emergency workers.			
(b) 11 (continued)	The means for controlling radiological exposures shall include exposure guidelines consistent with EPA Emergency Worker and Lifesaving Activity Protective Action Guides.	K.1		
(b) 12	Arrangements are made for medical services for contaminated injured individuals.	L.1		
(b) 13	General plans for recovery and reentry are developed.	M.1, M.5		
(b) 14	Periodic exercises are (will be) conducted to evaluate major portions of emergency response capabilities,	N.1, N.2		
(b) 14 (continued)	periodic drills are (will be) conducted to develop and maintain key skills,	N.2		
(b) 14 (continued)	and deficiencies identified as a result of exercises or drills are (will be) corrected.	N.1, N.2		
(b) 15	Radiological emergency response training is provided to those who may be called on to assist in an emergency.	O.1, O.2, O.3, O.4		
(b) 16	Responsibilities for plan development and review and for distribution of emergency plans are established,	P		
(b) 16 (continued)	and planners are properly trained.	P, P.1, P.2		

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**Part 3**

**NUREG-0654 Emergency Preparedness Cross Reference**

PLANNING ELEMENT	STATEMENT	EPLAN	OTHER	COMMENTS
A.1.a	Each plan shall identify the State, local, Federal and private sector organizations (including utilities), that are intended to be part of the overall response organization for Emergency Planning Zones. (See Appendix 5).	A.1, A.2, A.3, A.4, A.5, A.6, Table A-1; Table A-2;.		
A.1.b	Each organization and sub organization having an operational role shall specify its concept of operations, and its relationship to the total effort.	A.7, A.7.1, Figure A-1; Figure A-2		
A.1.c	Each plan shall illustrate these interrelationships in a block diagram.	Figure A-2		
A.1.d	Each organization shall identify a specific individual by title who shall be in charge of the emergency response.	Figure A-1; Figure A-2		
A.1.e	Each organization shall provide for 24-hour per day emergency response, including 24-hour per day manning of communications links.	A.2.2, A.2.3, A.3, A.5.2		
A.2.a	Each organization shall specify the functions and responsibilities for major elements and key individuals by title, of emergency response, including the following: Command and Control,	Does Not Apply. These criteria refer to offsite responsibilities		
A.2.a (continued)	Alerting and Notification,			
A.2.a (continued)	Communications,			
A.2.a (continued)	Public Information,			
A.2.a (continued)	Accident Assessment,			
A.2.a (continued)	Public Health and Sanitation,			
A.2.a (continued)	Social Services,			
A.2.a (continued)	Fire and Rescue,			
A.2.a (continued)	Traffic Control,			
A.2.a (continued)	Emergency Medical Services,			
A.2.a (continued)	Law Enforcement,			
A.2.a (continued)	Transportation,			
A.2.a (continued)	Protective Response (including authority to request Federal assistance and to initiate other protective actions), and			
A.2.a (continued)	Radiological Exposure Control.			

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A.2.a (continued)	The description of these functions shall include a clear and concise summary such as a table of primary and support responsibilities using the agency as one axis, and the function as the other. (See Section B for licensee).			
A.2.b	Each plan shall contain (by reference to specific acts, codes or statutes) the legal basis for such authorities.			
A.3	Each plan shall include written agreements referring to the concept of operations developed between Federal, State, and local agencies and other support organizations having an emergency response role within the Emergency Planning Zones. The agreements shall identify the emergency measures to be provided and the mutually acceptable criteria for their implementation, and specify the arrangements for exchange of information. These agreements may be provided in an appendix to the plan or the plan itself may contain descriptions of these matters and a signature page in the plan may serve to verify the agreements. The signature page format is appropriate for organizations where response functions are covered by laws, regulations or executive orders where separate written agreements are not necessary.	Appendix 3		
A.4	Each principal organization shall be capable of continuous (24-hour) operations for a protracted period.	A.1		
A.4 (continued)	The individual in the principal organization who will be responsible for assuring continuity of resources (technical, administrative, and material) shall be specified by title.	A.1		
B.1	Each licensee shall specify the onsite emergency organization of plant staff personnel for all shifts and its relation to the responsibilities and duties of the normal staff complement.	B.2, Table B-1; Figure B-1; Figure B-2		
B.2	Each licensee shall designate an individual as emergency coordinator who shall be on shift at all times and who shall have the authority and responsibility to immediately and unilaterally initiate any emergency actions, including	B.3, Table B-1		

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	providing protective action recommendations to authorities responsible for implementing offsite emergency measures.			
B.3	Each licensee shall identify a line of succession for the emergency coordinator position and identify the specific conditions for higher level utility officials assuming this function.	B.3		
B.4	Each licensee shall establish the functional responsibilities assigned to the emergency coordinator and shall clearly specify which responsibilities may not be delegated to other elements of the emergency organization.	B.4.1.b		
B.4 (continued)	Among the responsibilities which may not be delegated shall be the decision to notify and to recommend protective actions to authorities responsible for offsite emergency measures.	B.4.1.b		

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<u>B.5</u>	Each licensee shall specify the positions or title and major tasks to be performed by the persons to be assigned to the functional areas of emergency activity. For emergency situations, specific assignments shall be made for all shifts and for plant staff members, both onsite and away from the site. These assignments shall cover the emergency functions in Table B-1 entitled, "Minimum Staffing Requirements for Nuclear Power Plant Emergencies." The minimum on-shift staffing levels shall be as indicated in Table B-1. The licensee must be able to augment on-shift capabilities within a short period after declaration of an emergency. This capability shall be as indicated in Table B-1. The implementation schedule for licensed operators, auxiliary operators and the shift technical advisor on shift shall be as specified in the July 31, 1980 letter to all power reactor licensees. Any deficiencies in the other staffing requirements of Table B-1 must be capable of augmentation within 30 minutes by September 1, 1981, and such deficiencies must be fully removed by July 1, 1982.	Table B-1; B.4.1, B.4.2, B.4.3, B.4.4		
B.6	Each licensee shall specify the interfaces between and among the onsite functional areas of emergency activity, licensee headquarters support, local services support, and State and local government response organization. This shall be illustrated in a block diagram and shall include the onsite technical support center and the operational support (assembly) center and the licensee's near-site Emergency Operations Facility (EOF).	Figure B-1; Figure B-2		
B.7	Each licensee shall specify the corporate management, administrative, and technical support personnel who will augment the plant staff as specified in the table entitled "Minimum Staffing Requirements for Nuclear Power Plant Emergencies," (Table B-1) and in the following areas:	Table B-1: B.4.1.g, Emergency Communicator-CR B.4.2.a, Site Emergency Coordinator-TSC B.4.2.d, Technical Analysis		

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PLANNING ELEMENT	STATEMENT	EPLAN	OTHER	COMMENTS
		Director B.4.2.k, Radiological Control Director B.4.3.g, Radiological Control Teams B.4.3.i, Chemistry Team B.4.4.a, Emergency Response Manager-EOF B.4.4.q, Does Projection Team Leader B.4.4.t, Environmental Monitoring Teams		
<u>B.7.a</u>	a. logistics support for emergency personnel, e.g., transportation, communications, temporary quarters, food and water, sanitary facilities in the field, and special equipment and supplies procurement;	B.4.4.f		
B.7.b	b. technical support for planning and reentry/recovery operations;	B.4.4.l		
B.7.c	c. management level interface with governmental authorities; and	B.4.4.u		
B.7.d	d. release of information to news media during an emergency (coordinated with governmental authorities).	B.4.5.a		
B.8	Each licensee shall specify the contractor and private organizations who may be requested to provide technical assistance to and augmentation of the emergency organization.	A.5		
B.9	Each licensee shall identify the services to be provided by local agencies for handling emergencies, e.g., police, ambulance, medical, hospital, and fire-fighting organizations shall be specified. The licensee shall provide for transportation and treatment of injured personnel who may also be contaminated. Copies of the	A.4, Table A-2; Appendix 3		



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	arrangements and agreements reached with contractor, private, and local support agencies shall be appended to the plan. The agreements shall delineate the authorities, responsibilities, and limits on the actions of the contractor, private organization, and local services support groups.			
C.1.a	<p>The Federal government maintains in-depth capability to assist licensees, States and local governments through the Federal Radiological Monitoring and Assessment Plan (formerly Radiological Assistance Plan (RAP) and Interagency Radiological Assistance Plan (IRAP).<sup>*</sup> Each State and licensee shall make provisions for incorporating the Federal response capability into its operation plan, including the following:</p> <p><i><sup>*</sup> FEMA issued the Federal Radiological Emergency Response Plan (FRERP) on May 8, 1996 (61 FR 20944), which supersedes these documents. (Source NUREG-0654 Addenda Mar 2002)</i></p> <p>a. specific persons by title authorized to request Federal assistance; see A.1.d., A.2.a.</p>	B.4.1.b, B.4.4.a		
<u>C.1.b</u>	b. specific Federal resources expected, including expected times of arrival at specific nuclear facility sites; and	C.2, Table A-1		
<u>C.1.c</u>	c. specific licensee, State and local resources available to support the Federal response, e.g., airfields, command posts, telephone lines, radio frequencies and telecommunications centers.	C.1.1		
C.2.a	Each principal offsite organization may dispatch representatives to the licensee's near-site Emergency Operations Facility. (State technical analysis representatives at the near site EOF are preferred.)	N/A		Offsite Responsibility
<u>C.2.b</u>	b. The licensee shall prepare for the dispatch of a representative to principal offsite governmental emergency operations centers.	B.4.4.x, C.2, C.3		
C.3	Each organization shall identify radiological laboratories	C.4, H.3.3		

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	and their general capabilities and expected availability to provide radiological monitoring and analyses services which can be used in an emergency.			
C.4	Each organization shall identify nuclear and other facilities, organizations or individuals which can be relied upon in an emergency to provide assistance. Such assistance shall be identified and supported by appropriate letters of agreement.	C.4, Appendix 3		
D.1	An emergency classification and emergency action level scheme as set forth in Appendix 1 must be established by the licensee. The specific instruments, parameters or equipment status shall be shown for establishing each emergency class, in the in-plant emergency procedures. The plan shall identify the parameter values and equipment status for each emergency class.	D.1; Annex 1, Section 2; Annex 2, Section 2		
D.2	The initiating conditions shall include the example conditions found in Appendix I and all postulated accidents in the Final Safety Analysis Report (FSAR) for the nuclear facility.	D.2		
D.3	Each State and local organization shall establish an emergency classification and emergency action level scheme consistent with that established by the facility licensee.	N/A		Offsite Responsibility
D.4	Each State and local organization should have procedures in place that provide for emergency actions to be taken which are consistent with the emergency actions recommended by the nuclear facility licensee, taking into account local offsite conditions that exist at the time of the emergency.	N/A		Offsite Responsibility

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<u>E.1</u>	Each organization shall establish procedures which describe mutually agreeable bases for notification of response organizations consistent with the emergency classification and action level scheme set forth in Appendix 1. These procedures shall include means for verification of messages. The specific details of verification need not be included in the plan.	E, E.2		
E.2	Each organization shall establish procedures for alerting, notifying, and mobilizing emergency response personnel.	E1, E.2		
E.3	The licensee in conjunction with State and local organizations shall establish the contents of the initial emergency messages to be sent from the plant. These measures shall contain information about the class of emergency, whether a release is taking place, potentially affected population and areas, and whether protective measures may be necessary.	E.2		
<u>E.4.a</u>	Each licensee shall make provisions for follow up messages from the facility to offsite authorities which shall contain the following information if it is known and appropriate:  a. location of incident and name and telephone number (or communications channel identification) of caller;	E.2		
E.4.b	b. date/time of incident;	E.2		
E.4.c	c. class of emergency;	E.2		
<u>E.4.d</u>	d. type of actual or projected release (airborne, waterborne, surface spill), and estimated duration/impact times;	E.2		
<u>E.4.e</u>	e. estimate of quantity of radioactive material released or being released and the points and height of releases;	E.2		
E.4.f	f. chemical and physical form of released material, including estimates of the relative quantities and concentration of noble gases, iodines and particulates;	E.2		
E.4.g	g. meteorological conditions at appropriate levels (wind	E.2		

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	speed, direction (to and from), indicator of stability, precipitation, if any);			
E.4.h	h. actual or projected dose rates at site boundary; projected integrated dose at site boundary;	E.2		
<u>E.4.i</u>	i. projected dose rates and integrated dose at the projected peak and at 2, 5 and 10 miles, including sector(s) affected;	E.2		
E.4.j	j. estimate of any surface radioactive contamination in plant, onsite or offsite;	E.2		
E.4.k	k. licensee emergency response actions underway;	E.2		
<u>E.4.l</u>	l. recommended emergency actions, including protective measures;	E.2		
<u>E.4.m</u>	m. request for any needed onsite support by offsite organizations; and	E.2		
E.4.n	n. prognosis for worsening or termination of event based on plant information.	E.2		
E.5	State and local government organizations shall establish a system for disseminating to the public appropriate information contained in initial and follow up messages received from the licensee including the appropriate notification to appropriate broadcast media, e.g., the Emergency Broadcast System (EBS).* <i>* The Emergency Broadcast System (EBS) was replaced by the Emergency Alert System (EAS) by a Report and Order that the Federal Communications Commission issued on December 28, 1994 (59 FR 67090). (Source NUREG-0654 Addenda Mar 2002)</i>	N/A		Offsite Responsibility
E.6	Each organization shall establish administrative and physical means, and the time required for notifying and providing prompt instructions to the public within the plume exposure pathway Emergency Planning Zone. (See Appendix 3.) It shall be the licensee's responsibility to demonstrate that such means exist, regardless of who implements this requirement. It shall be the responsibility of the State and local governments to activate such a	E.3		

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	system.			
E.7	<p>Each organization shall provide written messages intended for the public, consistent with the licensee's classification scheme. In particular, draft messages to the public giving instruction with regard to specific protective actions to be taken by occupants of affected areas shall be prepared and included as part of the State and local plans. Such messages should include the appropriate aspects of sheltering, ad hoc, respiratory protection, e.g., handkerchief over mouth, thyroid blocking or evacuation. The role of the licensee is to provide supporting information for the messages. For ad hoc respiratory protection see "Respiratory Protective Devices Manual" American Industrial Hygiene Association, 1963 pp. 123-126.*</p> <p><i>* The current Respiratory Protective Devices Manual (2nd edition) and the forthcoming 3rd edition do not contain a similar table for ad hoc respiratory protection; however, according to the American Industrial Hygiene Association, it is still correct to refer to the 1963 manual as the most recent version of the Respiratory Protection Manual that contains the ad hoc respiratory protection table. (Source NUREG-0654 Addenda Mar 2002)</i></p>	E.3, G.1		
F.1	The communication Plans for emergencies shall include organizational titles and alternates for both ends of the communication links. Each organization shall establish reliable primary and backup means of communication for licensees, local, and State response organizations. Such systems should be selected to be compatible with one another.	F		
F.1.a	<p>Each plan shall include:</p> <p>a. provision for 24-hour per day notification to and</p>	F.3		

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	activation of the State/local emergency response network; and at a minimum, a telephone link and alternate, including 24-hour per day manning of communications links that initiate emergency response actions.			
F.1.b	b. provision for communications with contiguous State/local governments within the Emergency Planning Zones;	F.3		
F.1.c	c. provision for communications as needed with Federal emergency response organizations;	F.4		
F.1.d	d. provision for communications between the nuclear facility and the licensee's near-site Emergency Operations Facility, State and local emergency operations center, and radiological monitoring teams;	F.5, F.3		
F.1.e	e. provision for alerting or activating emergency personnel in each response organization; and	F.7		
F.1.f	f. provision for communication by the licensee with NRC headquarters and NRC Regional Office Emergency Operations Centers and the licensee's near-site Emergency Operations Facility and radiological monitoring team assembly area.	F.4		
F.2	Each organization shall ensure that a coordinated communication link for fixed and mobile medical support facilities exists.	F.6		
F.3	Each organization shall conduct periodic testing of the entire emergency communications system (see evaluation criteria H.10, N.2.a and Appendix 3).	F.8		
G.1	Each organization shall provide a coordinated periodic (at least annually) dissemination of information to the public regarding how they will be notified and what their actions should be in an emergency. This information shall include, but not necessarily be limited to: a. educational information on radiation; b. contact for additional information; c. protective measures, e.g., evacuation routes and relocation centers, sheltering, respiratory protection,	G, G.1		

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	<p>radioprotective drugs; and</p> <p>d. special needs of the handicapped.</p> <p>Means for accomplishing this dissemination may include, but are not necessarily limited to: information in the telephone book; periodic information in utility bills; posting in public areas; and publications distributed on an annual basis.</p>			
G.2	The public information program shall provide the permanent and transient adult population within the plume exposure EPZ an adequate opportunity to become aware of the information annually. The programs should include provision for written material that is likely to be available in a residence during an emergency. Updated information shall be disseminated at least annually. Signs or other measures (e.g., decals, posted notices or other means, placed in hotels, motels, gasoline stations and phone booths) shall also be used to disseminate to any transient population within the plume exposure pathway EPZ appropriate information that would be helpful if an emergency or accident occurs. Such notices should refer the transient to the telephone directory or other source of local emergency information and guide the visitor to appropriate radio and television frequencies.	G, G.1		
G.3.a	a. Each principal organization shall designate the points of contact and physical locations for use by news media during an emergency.	G.1, H.1.5		
G.3.b	b. Each licensee shall provide space which may be used for a limited number of the news media at the near site Emergency Operations Facility.	G.1, H.1.5		
G.4.a	a. Each principal organization shall designate a spokesperson who should have access to all necessary information.	G.1, B.4.5.a		
G.4.b	b. Each organization shall establish arrangements for timely exchange of information among designated	G.1		

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	spokespersons.			
G.4.c	c. Each organization shall establish coordinated arrangements for dealing with rumors.	H.1.5		
G.5	Each organization shall conduct coordinated programs at least annually to acquaint news media with the emergency plans, information concerning radiation, and points of contact for release of public information in an emergency.	G.1		
H.1	Each licensee shall establish a Technical Support Center and an onsite operations support center (assembly area) in accordance with NUREG-0696, Revision 1.* <i>**"Revision 1" should be deleted; NUREG-0696 has not been revised.(Source NUREG-0654 Addenda Mar 2002)</i>	H.1.2, H.1.3; Annex 1, Section A1-3.2, Technical Support Center Annex 1, Section A1-3.3, Operations Support Center Annex 2, Section A2-3.2, Technical Support Center Annex 2, Section A2-3.3, Operations Support Center		
H.2	Each licensee shall establish an Emergency Operations Facility from which evaluation and coordination of all licensee activities related to an emergency is to be carried out and from which the licensee shall provide information to Federal, State and local authorities responding to radiological emergencies in accordance with NUREG-0696, Revision 1.* <i>**"Revision 1" should be deleted; NUREG-0696 has not been revised.(Source NUREG-0654 Addenda Mar 2002)</i>	H.1.4		
H.3	Each organization shall establish an emergency operations center for use in directing and controlling response functions.	H.1.4		
H.4	Each organization shall provide for timely activation and staffing of the facilities and centers described in the plan.	H.2		
H.5.a	Each licensee shall identify and establish onsite monitoring systems that are to be used to initiate	H.3.1, I.5, I.6, Annex 2, Section 4.5		



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	emergency measures in accordance with Appendix 1, as well as those to be used for conducting assessment.  The equipment shall include:  a. geophysical phenomena monitors, (e.g., meteorological, hydrologic, seismic);			
H.5.b	b. radiological monitors, (e.g., process, area, emergency, effluent, wound and portable monitors and sampling equipment);	I.3, Annex 1, Section 4.3; Annex 2, Section 4.6		
H.5.c	c. process monitors, (e.g., reactor coolant system pressure and temperature, containment pressure and temperature, liquid levels, flow rates, status or lineup of equipment components); and	Annex 1, Section 4.2; Annex 2, Section 4.5		
H.5.d	d. fire and combustion products detectors.	H		
H.6.a	Each licensee shall make provision to acquire data from or for emergency access to offsite monitoring and analysis equipment including:  a. geophysical phenomena monitors, (e.g., meteorological, hydrologic, seismic);	H.3.1, I.5, I.6, Annex 2, Section 4.5		
H.6.b	b. radiological monitors including radiometers and sampling devices. Dosimetry shall be provided and shall meet, as a minimum, the NRC Radiological Assessment Branch Technical position for the Environmental Radiological Monitoring Program; and	I.3, Radiological Monitoring; Annex 1, Section 4.3; Annex 2, Section 4.6		
H.6.c	c. laboratory facilities, fixed or mobile.	H.3.3		
H.7	Each organization, where appropriate, shall provide for offsite radiological monitoring equipment in the vicinity of the nuclear facility.	I.3		
H.8	Each licensee shall provide meteorological instrumentation and procedures which satisfy the criteria in Appendix 2, and provisions to obtain representative current meteorological information from other sources.	I.6		
H.9	Each licensee shall provide for an onsite operations	H.4.1, Table H-1		

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	support center (assembly area) which shall have adequate capacity, and supplies, including, for example, respiratory protection, protective clothing, portable lighting, portable radiation monitoring equipment, cameras and communications equipment for personnel present in the assembly area.			
H.10	Each organization shall make provisions to inspect, inventory and operationally check emergency equipment/instruments at least once each calendar quarter and after each use. There shall be sufficient reserves of instruments/equipment to replace those which are removed from emergency kits for calibration or repair. Calibration of equipment shall be at intervals recommended by the supplier of the equipment.	H.4.1, H.4.2		
H.11	Each plan shall, in an appendix, include identification of emergency kits by general category (protective equipment, communications equipment, radiological monitoring equipment and emergency supplies).	Table H-1		
H.12	Each organization shall establish a central point (preferably associated with the licensee's near-site Emergency Operations Facility), for the receipt and analysis of all field monitoring data and coordination of sample media.	H.3.3		
I.1	Each licensee shall identify plant system and effluent parameter values characteristic of a spectrum of off-normal conditions and accidents, and shall identify the plant parameter values or other information, which correspond to the example initiating conditions of Appendix 1. Such parameter values and the corresponding emergency class shall be included in the appropriate facility emergency procedures. Facility emergency procedures shall specify the kinds of instruments being used and their capabilities.	I.1		
I.2	Onsite capability and resources to provide initial values and continuing assessment throughout the course of an	I.3		

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	accident shall include: post-accident sampling capability, radiation and effluent monitors, in-plant iodine instrumentation, and Containment radiation monitoring in accordance with NUREG-0578, as elaborated in the NRC letter to all power reactor licensees dated October 30, 1979.* <i>* NUREG-0737, "Clarification of TMI Action Plan Requirements," November 1980, and Supplement 1 to NUREG-0737, January 1983, supersede these citations. (Source NUREG-0654 Addenda Mar 2002)</i>			
I.3.a	Each licensee shall establish methods and techniques to be used for determining:  a. the source term of releases of radioactive material within plant systems. An example is the relationship between the containment radiation monitor(s) reading(s) and radioactive material available for release from containment.	I.4.1		
I.3.b	b. the magnitude of the release of radioactive materials based on plant system parameters and effluent monitors.	I.4.1		
I.4	Each licensee shall establish the relationship between effluent monitor readings and onsite and offsite exposures and contamination for various meteorological conditions.	I.4.1		
I.5	Each licensee shall have the capability of acquiring and evaluating meteorological information sufficient to meet the criteria of Appendix 2. There shall be provisions for access to meteorological information by at least the near site Emergency Operations Facility, the Technical Support Center, the Control Room and an offsite NRC center. The licensee shall make available to the State suitable meteorological data processing interconnections which will permit independent analysis by the State, of facility generated data in those States with the resources to effectively use this information.	I.6		

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I.6	Each licensee shall establish the methodology for determining the release rate/projected doses if the instrumentation used for assessment are off scale or inoperable.	I.4.1		
I.7	Each organization shall describe the capability and resources for field monitoring within the plume exposure Emergency Planning Zone which are an intrinsic part of the concept of operations for the facility.	I.8		
<u>I.8</u>	Each organization, where appropriate, shall provide methods, equipment and expertise to make rapid assessments of the actual or potential magnitude and locations of any radiological hazards through liquid or gaseous release pathways. This shall include activation, notification means, field team composition, transportation, communication, monitoring equipment and estimated deployment times.	I.7, I.8		
I.9	Each organization shall have a capability to detect and measure radioiodine concentrations in air in the plume exposure EPZ as low as $10^{-7}$ uCi/cc (microcuries per cubic centimeter) under field conditions. Interference from the presence of noble gas and background radiation shall not decrease the stated minimum detectable activity.	I.7.1		
<u>I.10</u>	Each organization shall establish means for relating the various measured parameters (e.g., contamination levels, water and air activity levels) to dose rates for key isotopes (i.e., those given in Table 3, page 18) and gross radioactivity measurements. Provisions shall be made for estimating integrated dose from the projected and actual dose rates and for comparing these estimates with the protective action guides. The detailed provisions shall be described in separate procedures.	I.4.1		
I.11	Arrangements to locate and track the airborne radioactive plume shall be made, using either or both Federal and State resources.	N/A		
J.1.a	Each licensee shall establish the means and time required	J.1, J.1.1		

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	to warn or advise onsite individuals and individuals who may be in areas controlled by the operator, including:  a. Employees not having emergency assignments;			
J.1.b	b. Visitors;	J.1, J.1.1		
J.1.c	c. Contractor and construction personnel; and	J.1, J.1.1		
J.1.d	d. Other persons who may be in the public access areas on or passing through the site or within the owner controlled area.	J.1, J.1.1		
<u>J.2</u>	Each licensee shall make provisions for evacuation routes and transportation for onsite individuals to some suitable offsite location, including alternatives for inclement weather, high traffic density and specific radiological conditions.	J.1.2		
J.3	Each licensee shall provide for radiological monitoring of people evacuated from the site.	J.1.3		
J.4	Each licensee shall provide for the evacuation of onsite non-essential personnel in the event of a Site or General Emergency and shall provide a decontamination capability at or near the monitoring point specified in J.3.	J.1.2		
J.5	Each licensee shall provide for a capability to account for all individuals onsite at the time of the emergency and ascertain the names of missing individuals within 30 minutes of the start of an emergency and account for all onsite individuals continuously thereafter.	J.1.2		
J.6.a	Each licensee shall, for individuals remaining or arriving onsite during the emergency, make provisions for:  a. Individual respiratory protection;	K.3		
J.6.b	b. Use of protective clothing; and	K.3		
J.6.c	c. Use of radioprotective drugs, (e.g., individual thyroid protection).	J.2.3, K.3		
J.7	Each licensee shall establish a mechanism for recommending protective actions to the appropriate State and local authorities. These shall include Emergency	J.2.3		

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	Action Levels corresponding to projected dose to the population-at-risk, in accordance with Appendix 1 and with the recommendations set forth in Tables 2.1 and 2.2 of the Manual of Protective Action Guides and Protective Actions for Nuclear Incidents (EPA-520/1-75-001).* * EPA issued EPA-400-R-92-001, May 1992, which supersedes this document. (Source NUREG-0654 Addenda Mar 2002) As specified in Appendix 1, prompt notification shall be made directly to the offsite authorities responsible for implementing protective measures within the plume exposure pathway Emergency Planning Zone.			
J.8	Each licensee's plan shall contain time estimates for evacuation within the plume exposure EPZ. These shall be in accordance with Appendix 4.	Table Intro-3		
J.9	Each State and local organization shall establish a capability for implementing protective measures based upon protective action guides and other criteria. This shall be consistent with the recommendations of EPA regarding exposure resulting from passage of radioactive airborne plumes, (EPA-520/1-75-001) and with those of DHEW (DHHS)/FDA regarding radioactive contamination of human food and animal feeds as published in the Federal Register of December 15, 1978 (43 FR 58790).* * EPA issued EPA-400-R-92-001, May 1992, which supersedes EPA-520/1-75-001. The Food and Drug Administration (FDA), Department of Health and Human Services (DHHS), issued "Guidance on Accidental Radioactive Contamination of Human Food and Animal Feeds, Recommendations for State and Local Agencies, Availability," on August 13, 1998 (63 FR 43402). (Source NUREG-0654 Addenda Mar 2002)	N/A		See respective State and County plans.

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<u>J.10.a</u>	The organization's plans to implement protective measures for the plume exposure pathway shall include:  a. Maps showing evacuation routes, evacuation areas, preselected radiological sampling and monitoring points, (identification of radiological sampling and monitoring points shall include the designators in Table J-1 or an equivalent uniform system described in the plan); relocation centers in host areas, and shelter areas.	Figure J-1, Operations Map Appendix 6		
<u>J.10.b</u>	b. Maps showing population distribution around the nuclear facility. This shall be by evacuation areas (licensees shall also present the information in a sector format);	Figure Intro-5		
J.10.c	c. Means for notifying all segments of the transient and resident population;	J.2.1		
J.10.d	d. Means for protecting those persons whose mobility may be impaired due to such factors as institutional or other confinement;	N/A		Offsite Responsibility
J.10.e	e. Provisions for the use of radioprotective drugs, particularly for emergency workers and institutionalized persons within the plume exposure EPZ whose immediate evacuation may be infeasible or very difficult, including quantities, storage, and means of distribution.	N/A		Offsite Responsibility
J.10.f	f. State and local organizations' plans should include the method by which decisions by the State Health Department for administering radioprotective drugs to the general population are made during an emergency and the predetermined conditions under which such drugs may be used by offsite emergency workers;* <i>* The Food and Drug Administration (FDA) issued "Potassium Iodide as a Thyroid Blocking Agent in a Radiation Emergency," on December 11, 2001 (66 FR 238:64046), which supersedes this citation. (Source NUREG-0654 Addenda Mar 2002)</i>	N/A		Offsite Responsibility
J.10.g	g. Means of relocation;	N/A		Offsite Responsibility

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J.10.h	h. Relocation centers in host areas which are at least 5 miles, and preferably 10 miles, <u>beyond</u> the boundaries of the plume exposure emergency planning zone; (See K.8)	Figure J-1		Offsite Responsibility
J.10.i	i. Projected traffic capacities of evacuation routes under emergency conditions;	Figure J-1, Appendix 6		Offsite Responsibility
J.10.j	j. Control of access to evacuated areas and organization responsibilities for such control;	Figure J-1, Appendix 6		Offsite Responsibility
J.10.k	k. Identification of and means for dealing with potential impediments (e.g., seasonal impassability of roads) to use of evacuation routes, and contingency measures;	Appendix 6		Offsite Responsibility
J.10.l	Time estimates for evacuation of various sectors and distances based on a dynamic analysis (time-motion study under various conditions) for the plume exposure pathway emergency planning zone (See Appendix 4); and	Appendix 6		Offsite Responsibility
J.10.m	m. The bases for the choice of recommended protective actions from the plume exposure pathway during emergency conditions. This shall include expected local protection afforded * in residential units or other shelter for direct and inhalation exposure, as well as evacuation time estimates. <i>*EPA issued EPA 400-R-92-001 in May 1992, which supersedes this citation. (Source NUREG-0654 Addenda Mar 2002)</i>	J.2.2, J.2.3, J.2.4		
J.11	Each State shall specify the protective measures to be used for the ingestion pathway, including the methods for protecting the public from consumption of contaminated foodstuffs. This shall include criteria for deciding whether dairy animals should be put on stored feed. The plan shall identify procedures for detecting contamination, for estimating the dose commitment consequences of uncontrolled ingestion, and for imposing protection procedures such as impoundment, decontamination, processing, decay, product diversion, and preservation. Maps for recording survey and monitoring data, key land use data (e.g., farming), dairies, food processing plants,	N/A		See respective State and County Plans.



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PLANNING ELEMENT	STATEMENT	EPLAN	OTHER	COMMENTS
	water sheds, water supply intake and treatment plants and reservoirs shall be maintained. Provisions for maps showing detailed crop information may be by including reference to their availability and location and a plan for their use. The maps shall start at the facility and include all of the 50-mile ingestion pathway EPZ. Up-to-date lists of the name and location of all facilities which regularly process milk products and other large amounts of food or agricultural products originating in the ingestion pathway Emergency Planning Zone, but located elsewhere, shall be maintained.			
J.12	Each organization shall describe the means for registering and monitoring of evacuees at relocation centers in host areas. The personnel and equipment available should be capable of monitoring within about a 12 hour period all residents and transients in the plum exposure EPZ arriving at relocation centers.	NA		See respective State and County Plans.
K.1.a	Each licensee shall establish onsite exposure guidelines consistent with EPA Emergency Worker and Lifesaving Activity Protective Actions Guides (EPA-520/1-75/001) for: * EPA issued EPA 400-R-92-001 in May 1992, which supersedes this citation. (Source NUREG-0654 Addenda Mar 2002)	K.1, K.4		
	a. removal of injured persons;			
K.1.b	b. undertaking corrective actions;	K.1		
K.1.c	c. performing assessment actions;	K.1		
K.1.d	d. providing first aid;	K.4		
K.1.e	e. performing personnel decontamination;	K.4		
K.1.f	f. providing ambulance service; and	K.4		
K.1.g	g. providing medical treatment services.	K.4		
K.2	Each licensee shall provide an onsite radiation protection program to be implemented during emergencies, including methods to implement exposure guidelines. The plan shall	K.1, K.2		

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PLANNING ELEMENT	STATEMENT	EPLAN	OTHER	COMMENTS
	identify individual(s), by position or title, who can authorize emergency workers to receive doses in excess of 10 CFR Part 20 limits. Procedures shall be worked out in advance for permitting onsite volunteers to receive radiation exposures in the course of carrying out lifesaving and other emergency activities. These procedures shall include expeditious decision making and a reasonable consideration of relative risks.			
K.3.a	a. Each organization shall make provision for 24-hour-per-day capability to determine the doses received by emergency personnel involved in any nuclear accident, including volunteers. Each organization shall make provisions for distribution of dosimeters, both self-reading and permanent record devices.	K.2		
<u>K.3.b</u>	Each organization shall ensure that dosimeters are read at appropriate frequencies and provide for maintaining dose records for emergency workers involved in any nuclear accident.	K.2		
K.4	Each State and local organization shall establish the decision chain for authorizing emergency workers to incur exposures in excess of the EPA General Public Protective Action Guides (i.e., EPA PAGs for emergency workers and lifesaving activities).	N/A		See respective State and County plans.
K.5.a	a. Each organization as appropriate, shall specify action levels for determining the need for decontamination.	K.4		
K.5.b	b. Each organization, as appropriate, shall establish the means for radiological decontamination of emergency personnel wounds, supplies, instruments and equipment, and for waste disposal.	K.4		
K.6.a	Each licensee shall provide onsite contamination control measures including:  a. area access control;	K.6		

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PLANNING ELEMENT	STATEMENT	EPLAN	OTHER	COMMENTS
K.6.b	b. drinking water and food supplies;	K.5		
K.6.c	c. criteria for permitting return of areas and items to normal use, see Draft ANSI 13.12.* <i>*EPA PAG Manual, EPA 400-R-92-001 (see items 16 and 17), and the Food and Drug Administration, DHHS, "Guidance on Accidental Radioactive Contamination of Human Food and Animal Feeds: Recommendations for State and Local Agencies," dated August 13, 1998 (63 FR 43402) supersede this citation.(Source NUREG-0654 Addenda Mar 2002)</i>	K.4		
K.7	Each licensee shall provide the capability for decontaminating relocated onsite personnel, including provisions for extra clothing and decontaminants suitable for the type of contamination expected, with particular attention given to radioiodine contamination of the skin.	L.3		
L.1	Each organization shall arrange for local and backup hospital and medical services having the capability for evaluation of radiation exposure and uptake, including assurance that persons providing these services are adequately prepared to handle contaminated individuals.	L.2, L.3.1, Appendix 3		
L.2	Each licensee shall provide for onsite first aid capability.	L.1.1		
L.3	Each State shall develop lists indicating the location of public, private and military hospitals and other emergency medical services facilities within the State or contiguous States considered capable of providing medical support for any contaminated injured individual.	N/A		Offsite Responsibility
L.3 (continued)	The listing shall include the name, location, type of facility and capacity and any special radiological capabilities.	N/A		Offsite Responsibility
L.3 (continued)	These emergency medical services should be able to radiologically monitor personnel contamination, and	N/A		Offsite Responsibility
L.3 (continued)	have facilities and trained personnel able to care for contaminated injured persons.	N/A		Offsite Responsibility
L.4	Each organization shall arrange for transporting victims of radiological accidents to medical support facilities.	L.2		

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PLANNING ELEMENT	STATEMENT	EPLAN	OTHER	COMMENTS
M.1	Each organization, as appropriate, shall develop general plans and procedures for reentry and recovery and describe the means by which decisions to relax protective measures (e.g., allow reentry into an evacuated area) are reached. This process should consider both existing and potential conditions.	M.1, M.5		
M.2	Each licensee plan shall contain the position/title, authority and responsibilities of individuals who will fill key positions in the facility recovery organization. This organization shall include technical personnel with responsibilities to develop, evaluate and direct recovery and reentry operations. The recovery organization recommended by the Atomic Industrial Forum's "Nuclear Power Plant Emergency Response Plan" dated October 11, 1979, is an acceptable framework.* <i>**Functional Criteria for Emergency Response Facilities," NUREG-0696, issued on February 1981, and "Clarification of TMI Action Plan Requirements, Requirements for Emergency Response Capability," NUREG-0737, Supplement No. 1, issued January 1983, supersede this citation. (Source NUREG-0654 Addenda Mar 2002)</i>	M.4		
M.3	Each licensee and State plan shall specify means for informing members of the response organizations that a recovery operation is to be initiated, and of any changes in the organizational structure that may occur.	M.2		
M.4	Each plan shall establish a method for periodically estimating total population exposure.	M.6		
N.1.a	a. An exercise is an event that tests the integrated capability and a major portion of the basic elements existing within emergency preparedness plans and organizations. The emergency preparedness exercise shall simulate an emergency that results in offsite radiological releases which would require response by	N, N.1		

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PLANNING ELEMENT	STATEMENT	EPLAN	OTHER	COMMENTS
	offsite authorities. Exercises shall be conducted as set forth in NRC and FEMA rules.			
N.1.b	b. An exercise shall include mobilization of State and local personnel and resources adequate to verify the capability to respond to an accident scenario requiring response. The organization shall provide for a critique of the annual exercise by Federal and State observers/evaluators. The scenario should be varied from year to year such that all major elements of the plans and preparedness organizations are tested within a five-year period. Each organization should make provisions to start an exercise between 6:00 p.m. and midnight, and another between midnight and 6:00 a.m. once every six years. Exercises should be conducted under various weather conditions. Some exercises should be unannounced.	N.1		
N.2.a	A drill is a supervised instruction period aimed at testing, developing and maintaining skills in a particular operation. A drill is often a component of an exercise. A drill shall be supervised and evaluated by a qualified drill instructor. Each organization shall conduct drills, in addition to the annual exercise at the frequencies indicated below:  a. <u>Communication Drills</u> Communications with State and local governments within the plume exposure pathway Emergency Planning Zone shall be tested monthly. Communications with Federal emergency response organizations and States within the ingestion pathway shall be tested quarterly. Communications between the nuclear facility, State and local emergency operations centers, and field assessment teams shall be tested annually. Communication drills shall also include the aspect of understanding the content of messages.	N.2.1, F.8		
N.2.b	b. <u>Fire Drills</u>	N.2.2		

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PLANNING ELEMENT	STATEMENT	EPLAN	OTHER	COMMENTS
	Fire drills shall be conducted in accordance with the plant (nuclear facility) technical specifications.			
N.2.c	<p>c. <u>Medical Emergency Drills</u></p> <p>A medical emergency drill involving a simulated contaminated individual which contains provisions for participation by the local support services agencies (i.e., ambulance and offsite medical treatment facility) shall be conducted annually. The offsite portions of the medical drill may be performed as part of the required annual exercise.</p>	N.2.3		
N.2.d	<p>d. <u>Radiological Monitoring Drills</u></p> <p>Plant environs and radiological monitoring drills (onsite and offsite) shall be conducted annually. These drills shall include collection and analysis of all sample media (e.g., water, vegetation, soil and air), and provisions for communications and record keeping. The State drills need not be at each site. Where appropriate, local organizations shall participate.</p>	N.2.5		
N.2.e.1	<p>e. <u>Health Physics Drills</u></p> <p>(1) Health Physics drills shall be conducted semi-annually which involve response to, and analysis of, simulated elevated airborne and liquid samples and direct radiation measurements in the environment. The State drills need not be at each site.</p> <p>(2) Analysis of in plant liquid samples with actual elevated radiation levels including use of the post-accident sampling system shall be included in Health Physics drills by licensees annually.</p>	N.2.5		

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<u>N.3.a</u>	Each organization shall describe how exercises and drills are to be carried out to allow free play for decision making and to meet the following objectives. Pending the development of exercise scenarios and exercise evaluation guidance by NRC and FEMA the scenarios for use in exercises and drills shall include but not be limited to, the following:  a. The basic objective(s) of each drill and exercise and appropriate evaluation criteria;	N.1		
N.3.b	b. The date(s), time period, place(s) and participating organizations;	N.1		
N.3.c	c. The simulated events;	N.1		
N.3.d	d. A time schedule of real and simulated initiating events;	N.1		
N.3.e	e. A narrative summary describing the conduct of the exercises or drills to include such things as simulated casualties, offsite fire department assistance, rescue of personnel, use of protective clothing, deployment of radiological monitoring teams, and public information activities; and	N.1		
<u>N.3.f</u>	f. A description of the arrangements for and advance materials to be provided to official observers.	N.1		
N.4	Official observers from Federal, State or local governments will observe, evaluate, and critique the required exercises. A critique shall be scheduled at the conclusion of the exercise to evaluate the ability of organizations to respond as called for in the plan. The critique shall be conducted as soon as practicable after the exercise, and a formal evaluation should result from the critique.	N.1		
N.5	Each organization shall establish means for evaluating observer and participant comments on areas needing improvement, including emergency plan procedural changes, and for assigning responsibility for implementing corrective actions. Each organization shall establish	N.1, N.2		

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	management control used to ensure that corrective actions are implemented.			
O.1.a	Each organization shall assure the training of appropriate individuals.  a. Each facility to which the plant applies shall provide site specific emergency response training for those offsite emergency organizations who may be called upon to provide assistance in the event of an emergency,	O, O.3		
O.1.b	b. Each offsite response organization shall participate in and receive training. Where mutual aid agreements exist between local agencies such as fire, police and ambulance/rescue, the training shall also be offered to the other departments who are members of the mutual aid district.	O, O.3		
<u>O.2</u>	The training program for members of the onsite emergency organization shall, besides classroom training, include practical drills in which each individual demonstrates ability to perform his assigned emergency function. During the practical drills, on-the-spot correction of erroneous performance shall be made and a demonstration of the proper performance offered by the instructor.	O.1, O.2, O.4		
O.3	Training for individuals assigned to licensee first aid teams shall include courses equivalent to Red Cross Multi-Media.	O.1		
O.4.a	Each organization shall establish a training program for instructing and qualifying personnel who will implement radiological emergency response plans. <sup>2/</sup> The specialized initial training and periodic retraining programs (including the scope, nature and frequency) shall be provided in the following categories:  a. Directors or coordinators of the response organizations;	O.1.a		
O.4.b	b. Personnel responsible for accident assessment;	O.1.b		



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O.4.c	c. Radiological monitoring teams and radiological analysis personnel;	O.1.c		
O.4.d	d. Police, security and fire fighting personnel;	O.1.j		
O.4.e	e. Repair and damage control/correctional action teams (onsite);	O.1.d		
O.4.f	f. First aid and rescue personnel;	O.1.e		
O.4.g	g. Local support services personnel including Civil Defense/Emergency Service personnel;	O.1.i		
O.4.h	h. Medical support personnel;	O.1.h		
<u>O.4.i</u>	i. Licensee's headquarters support personnel;	O.2.g		
O.4.j	j. Personnel responsible for transmission of emergency information and instructions.	O.2.f		
O.5	Each organization shall provide for the initial and annual retraining of personnel with emergency response responsibilities.	O.1		
P.1	Each organization shall provide for the training of individuals responsible for the planning effort.	O.4		
P.2	Each organization shall identify by title the individual with the overall authority and responsibility for radiological emergency response planning.	P		
P.3	Each organization shall designate an Emergency Planning Coordinator with responsibility for the development and updating of emergency plans and coordination of these plans with other response organizations.	P		
P.4	Each organization shall update its plan and agreements as needed, review and certify it to be current on an annual basis. The update shall take into account changes identified by drills and exercises.	P, P.2		
P.5	The emergency response plans and approved changes to the plans shall be forwarded to all organizations and appropriate individuals with responsibility for implementation of the plans. Revised pages shall be	P, P.2		

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	dated and marked to show where changes have been made.			
P.6	Each plan shall contain a detailed listing of supporting plans and their source.	P.3, Appendix 4		
P.7	Each plan shall contain as an appendix listing, by title, procedures required to implement the plan. The listing shall include the section(s) of the plan to be implemented by each procedure.	Appendix 4		
P.8	Each plan shall contain a specific table of contents. Plans submitted for review should be cross-referenced to these criteria.	Table of Contents		
P.9	Each licensee shall arrange for and conduct independent reviews of the emergency preparedness program at least every 12 months. (An independent review is one conducted by any competent organization either internal or external to the licensees' organization, but who are not immediately responsible for the emergency preparedness program). The review shall include the emergency plan, its implementing procedures-and practices, training, readiness testing, equipment, and interfaces with State and local governments. Management controls shall be implemented for evaluation and correction of review findings. The result of the review, along with recommendations for improvements, shall be documented, reported to appropriate licensee corporate and plant management, and involved Federal, State and local organizations, and retained for a period of five years.	P.5		
P.10	Each organization shall provide for updating telephone numbers in emergency procedures at least quarterly.	P.2.1		

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**Part 4**

**NUREG-0696 Functional Criteria for Emergency Response Facilities**

<b>NUREG-0696 Section #</b>	<b>STATEMENT</b>	<b>EPLAN</b>	<b>OTHER</b>	<b>COMMENTS</b>
2.1	The <b>TECHNICAL SUPPORT CENTER (TSC)</b> provides management, technical and administrative support to the Control Room during an emergency of Alert or higher classification.	Annex 1, Section 3.2 Annex 2, Section 3.2		
2.2	The TSC is the primary communications center for the Plant during an emergency.	Annex 1, Section 3.2 Annex 2, Section 3.2		
2.2	The TSC is located near the Control Room (within a two minute walk)	Annex 1, Section 3.2 Annex 2, Section 3.2		
2.2	There are no major security barriers between the Control Room and the TSC.	Annex 1, Section 3.2 Annex 2, Section 3.2		
2.3	Staffing and training:			
	Activate within 30 minutes after staffing	B.2		
	Staffing shall consist of sufficient technical, engineering and senior designated licensee personnel	B.4		
	Staffing per emergency classification	B.2		
	Training of TSC staff to support facility operation	O.2		
2.4	Size of the Facility			
	Approximately 75 sq. ft. / person	Annex 1, Section 3.2 Annex 2, Section 3.2		
	Acquire, process and display data	Annex 1, Section 3.2 Annex 2, Section 3.2		
	Space to repair, maintain and service of equipment, displays and instrumentation	Annex 1, Section 3.2 Annex 2, Section 3.2		
	Personnel access to the functional displays	Annex 1, Section 3.2 Annex 2, Section 3.2		
	Communications and transmission device/links	Annex 1, Section 3.2 Annex 2, Section 3.2		
	Storage of and/or access to plant records	Annex 1, Section 3.2 Annex 2, Section 3.2		
	A separate room (for 3 individuals) for NRC private consultation.	Annex 1, Section 3.2 Annex 2, Section 3.2		
2.5	Structure	Annex 1, Section 3.2 Annex 2, Section 3.2		
	Adequate capabilities for earthquakes; high winds (other than tornadoes);and floods	Annex 1, Section 3.2 Annex 2, Section 3.2		

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**Part 4**

**NUREG-0696 Functional Criteria for Emergency Response Facilities**

<b>NUREG-0696 Section #</b>	<b>STATEMENT</b>	<b>EPLAN</b>	<b>OTHER</b>	<b>COMMENTS</b>
2.6	Habitability	Annex 1, Section 3.2 Annex 2, Section 3.2		
	Same radiological protection as the Control Room under accident conditions	Annex 1, Section 3.2 Annex 2, Section 3.2		
	Ventilation system functions in a manner similar to the Control Room ventilation system.	Annex 1, Section 3.2 Annex 2, Section 3.2		
	Radiological Monitoring dedicated to the TSC	Annex 1, Section 3.2 Annex 2, Section 3.2		
2.7	Communications	F.1		
	ENS	F.1		
	HPN	F.1		
	Dedicated links to the Control Room(s), OSC and the EOF	F.1		
	Between work areas in the TSC	F.1		
	At least two dial phones for the NRC	F.1		
3.1	The <b>OPERATIONS SUPPORT CENTER (OSC)</b>	H.1.c		
	A location where logistical support is assembled	Annex 1, Section 3.3 Annex 2, Section 3.3		
	Supervise personnel designated to fill these roles	Annex 1, Section 3.3 Annex 2, Section 3.3		
3.2	Habitability	Annex 1, Section 3.3 Annex 2, Section 3.3		
	No requirements, ability to relocate	Annex 1, Section 3.3 Annex 2, Section 3.3		
3.3	Communications	Annex 1, Section 3.3 Annex 2, Section 3.3		
	Control Room	Annex 1, Section 3.3 Annex 2, Section 3.3		
	Technical Support Center	Annex 1, Section 3.3 Annex 2, Section 3.3		
	The <b>EMERGENCY OPERATIONS FACILITY (EOF)</b>	H.1.4		
4.1	Functions	H.1.4		

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**Part 4**

**NUREG-0696 Functional Criteria for Emergency Response Facilities**

<b>NUREG-0696 Section #</b>	<b>STATEMENT</b>	<b>EPLAN</b>	<b>OTHER</b>	<b>COMMENTS</b>
	Overall management of emergency response	B.4.4		
	Coord. Radiological & environmental assessments	B.4.4		
	Determine PARs	B.4.4		
	Coordination with the offsite agencies and authorities	B.4.4		
	Staffed by licensee, Federal, state	B.4.4		
	Acquisition, display and evaluation of all radiological and meteorological and plant systems pertinent to determine offsite protective measures	H.1.4		
	Coord with the offsite authorities	B.4.4		
	Industrial security provided to restrict access	B.4.4		
4.2	Location, Structure and Habitability	H.1.4		
	Optimum functionality	H.1.4		
	Affected or interrupted by radiological releases	H.1.4		
	Habitability & location per table 2	H.1.4		
	Distance beyond 10 miles of the TSC	H.1.4		
	Well designed for the life of the plant	H.1.4		
4.3	Staffing and training	B.2, O.2		
4.4	Size	H.1.4		
	Approximately 75 sq. ft. / person	H.1.4		
	Acquire, process and display data	H.1.4		
	Space to repair, maintain and service of equipment, displays and instrumentation	H.1.4		
	Personnel access to the functional displays	H.1.4		
	Communications and transmission device/links	H.1.4		
	Storage of and/or access to plant records	H.1.4		
	A separate room (for 3 individuals) for NRC private consultation.	H.1.4		
	>35 response personnel (unless state and locals respond to the EOF)	H.1.4		
	9 NRC	H.1.4		
	1 FEMA	H.1.4		
4.5	Radiological Monitoring	H.1.4		
	Adequate radiological protection for the responders	H.1.4		
4.6	Communications	F.1		

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**Part 4**

**NUREG-0696 Functional Criteria for Emergency Response Facilities**

<b>NUREG-0696 Section #</b>	<b>STATEMENT</b>	<b>EPLAN</b>	<b>OTHER</b>	<b>COMMENTS</b>
	EOF to senior licensee manager in charge in TSC	F.1		
	Communication to manage the licensee emergency response resources	F.1		
	Communication to coordinate radiological monitoring	F.1		
	Communication to coordinate offsite emergency response activities	F.1		
	Communication to disseminate information and recommend protective actions to responsible government agencies	F.1		
	Communications include:	F.1		
	ENS	F.1		
	HPN	F.1		

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**Part 5**

**10 CFR 50.33 Contents of Applications; General Information**

REGULATION	STATEMENT	EPLAN	OTHER	COMMENTS
10 CFR 50.33 (g)	(g) If the application is for an operating license for a nuclear power reactor, the applicant shall submit radiological emergency response plans of State and local governmental entities in the United States that are wholly or partially within the plume exposure pathway Emergency Planning Zone (EPZ) <sup>(3)</sup> , as well as the plans of State governments wholly or partially within the ingestion pathway EPZ. <sup>(4)</sup> Generally, the plume exposure pathway EPZ for nuclear power reactors shall consist of an area about 10 miles (16 km) in radius and the ingestion pathway EPZ shall consist of an area about 50 miles (80 km) in radius. The exact size and configuration of the EPZs surrounding a particular nuclear power reactor shall be determined in relation to the local emergency response needs and capabilities as they are affected by such conditions as demography, topography, land characteristics, access routes, and jurisdictional boundaries. The size of the EPZs also may be determined on a case-by-case basis for gas-cooled reactors and for reactors with an authorized power level less than 250 MW thermal. The plans for the ingestion pathway shall focus on such actions as are appropriate to protect the food ingestion pathway.	N/A		Licensing Action North Carolina, Chatham County, Harnett County, Lee County, and Wake County Plans
	<p><sup>3</sup> Emergency Planning Zones (EPZs) are discussed in NUREG-0396, EPA 520/1-78-016, "Planning Basis for the Development of State and Local Government Radiological Emergency Response Plans in Support of Light- Water Nuclear Power Plants," December 1978.</p> <p><sup>4</sup> If the State and local emergency response plans have been previously provided to the NRC for inclusion in the facility docket, the applicant need only provide the appropriate reference to meet this requirement.</p>			

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**Part 5**

**10 CFR 50.33 Contents of Applications; General Information**

REGULATION	STATEMENT	EPLAN	OTHER	COMMENTS
10 CFR 50.33 (j)	(j) If the application contains Restricted Data or other defense information, it shall be prepared in such manner that all Restricted Data and other defense information are separated from the unclassified information.	N/A		Licensing Action No restrictions known



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**Part 6**

**10 CFR 50.34 Contents of Applications; General Information**

REGULATION	STATEMENT	EPLAN	OTHER	COMMENTS
10 CFR 50.34	(a) (a) <i>Preliminary safety analysis report</i> . Each application for a construction permit shall include a preliminary safety analysis report. The minimum information <sup>5</sup> to be included shall consist of the following:  (10) (10) A discussion of the applicant's preliminary plans for coping with emergencies. Appendix E sets forth items which shall be included in these plans.	N/A	SAR	
	(b)(6)(v) Plans for coping with emergencies, which shall include the items specified in appendix E.	Emergency Plan complies see Appendix E Cross Reference		
	(f) (2) (xxv) Provide an onsite Technical Support Center, an onsite Operational Support Center, and, for construction permit applications only, a nearsite Emergency Operations Facility. (III.A.1.2).	Sections H.1.2, H.1.3		

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**10 CFR 50.54 Conditions of Licenses**

REGULATION	STATEMENT	EPLAN	OTHER	COMMENTS
10 CFR 50.54(q)	(q) A licensee authorized to possess and operate a nuclear power reactor shall follow and maintain in effect emergency plans which meet the standards in § 50.47(b) and the requirements in appendix E of this part. A licensee authorized to possess and/or operate a research reactor or a fuel facility shall follow and maintain in effect emergency plans which meet the requirements in appendix E to this part. The licensee shall retain the emergency plan and each change that decreases the effectiveness of the plan as a record until the Commission terminates the license for the nuclear power reactor. The nuclear power reactor licensee may make changes to these plans without Commission approval only if the changes do not decrease the effectiveness of the plans and the plans, as changed, continue to meet the standards of § 50.47(b) and the requirements of appendix E to this part. The research reactor and/or the fuel facility licensee may make changes to these plans without Commission approval only if these changes do not decrease the effectiveness of the plans and the plans, as changed, continue to meet the requirements of appendix E to this part. This nuclear power reactor, research reactor, or fuel facility licensee shall retain a record of each change to the emergency plan made without prior Commission approval for a period of three years from the date of the change. Proposed changes that decrease the effectiveness of the approved emergency plans may not be implemented without application to and approval by the Commission. The licensee shall submit, as specified in § 50.4, a report of each proposed change for approval. If a change is made without approval, the licensee shall submit, as specified in § 50.4, a report of each change within 30 days after the change is made.	N/A	Procedural Guidance is provided.	

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**10 CFR 50.54 Conditions of Licenses**

REGULATION	STATEMENT	EPLAN	OTHER	COMMENTS
10 CFR 50.54(q)	<p>(t)(1) The licensee shall provide for the development, revision, implementation, and maintenance of its emergency preparedness program. The licensee shall ensure that all program elements are reviewed by persons who have no direct responsibility for the implementation of the emergency preparedness program either:</p> <p>(i) At intervals not to exceed 12 months or,</p> <p>(ii) As necessary, based on an assessment by the licensee against performance indicators, and as soon as reasonably practicable after a change occurs in personnel, procedures, equipment, or facilities that potentially could adversely affect emergency preparedness, but no longer than 12 months after the change. In any case, all elements of the emergency preparedness program must be reviewed at least once every 24 months.</p> <p>(2) The review must include an evaluation for adequacy of interfaces with State and local governments and of licensee drills, exercises, capabilities, and procedures. The results of the review, along with recommendations for improvements, must be documented, reported to the licensee's corporate and plant management, and retained for a period of 5 years. The part of the review involving the evaluation for adequacy of interface with State and local governments must be available to the appropriate State and local governments.</p>	<p>P.5</p> <p>P.5</p> <p>P.5</p>		

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**Part 8**

**10 CFR 50.72 Immediate Notification Requirements For Operating Nuclear Power Reactors**

REGULATION	STATEMENT	EPLAN	OTHER	COMMENTS
10 CFR 50.72	(a) General requirements. <sup>1</sup> (1) Each nuclear power reactor licensee licensed under Sec. 50.21(b) or Sec. 50.22 of this part shall notify the NRC Operations Center via the Emergency Notification System of:  (i) The declaration of any of the Emergency Classes specified in the licensee's approved Emergency Plan;	E.2		
	(2) If the Emergency Notification System is inoperative, the licensee shall make the required notifications via commercial telephone service, other dedicated telephone system, or any other method which will ensure that a report is made as soon as practical to the NRC Operations Center.	F.1.9		
	(3) The licensee shall notify the NRC immediately after notification of the appropriate State or local agencies and not later than one hour after the time the licensee declares one of the Emergency Classes.	E.2		
	(4) The licensee shall activate the Emergency Response Data System (ERDS) <sup>4</sup> as soon as possible but not later than one hour after declaring an Emergency Class of alert, site area emergency, or general emergency. The ERDS may also be activated by the licensee during emergency drills or exercises if the licensee's computer system has the capability to transmit the exercise data.	Annex 1, Section 4.1		

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**10 CFR 50.72 Immediate Notification Requirements For Operating Nuclear Power Reactors**

REGULATION	STATEMENT	EPLAN	OTHER	COMMENTS
10 CFR 50.72	(c) <i>Followup notification.</i> With respect to the telephone notifications made under paragraphs (a) and (b) of this section, in addition to making the required initial notification, each licensee, shall during the course of the event:	E.2		
	(1) <i>Immediately report</i> (i) any further degradation in the level of safety of the plant or other worsening plant conditions, including those that require the declaration of any of the Emergency Classes, if such a declaration has not been previously made, or (ii) any change from one Emergency Class to another, or (iii) a termination of the Emergency Class.	E.2		
	(3) Maintain an open, continuous communication channel with the NRC Operations Center upon request by the NRC.	F.1.9		

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**Part 9**

**10 CFR 52.79 Contents of Applications; Technical Information**

<b>REGULATION</b>	<b>STATEMENT</b>	<b>EPLAN</b>	<b>OTHER</b>	<b>COMMENTS</b>
10 CFR 52.79	(c) The application for a combined license must include the proposed inspections, tests and analyses, including those applicable to emergency planning, which the licensee shall perform and the acceptance criteria therefore which are necessary and sufficient to provide reasonable assurance that, if the inspections, tests and analyses are performed and the acceptance criteria met, the facility has been constructed and will operate in conformity with the combined license, the provisions of the Atomic Energy Act, and the NRC's regulations. Where the application references a certified standard design, the inspections, tests, analyses and acceptance criteria contained in the certified design must apply to those portions of the facility design which are covered by the design certification.	N/A	ITAAC	Licensing action. Part of the application.
10 CFR 52.79	(d) The application must contain emergency plans which provide reasonable assurance that adequate protective measures can and will be taken in the event of a radiological emergency at the site. (1) If the application references an early site permit, the application may incorporate by reference emergency plans, or major features of emergency plans, approved in connection with the issuance of the permit.	N/A		Licensing action to include with the Emergency Plan COLA
10 CFR 52.79	(d) (2) If the application does not reference an early site permit, or if no emergency plans were approved in connection with the issuance of the permit, the applicant shall make good faith efforts to obtain certifications from the local and State governmental agencies with emergency planning responsibilities (i) that the proposed emergency plans are practicable, (ii) that these agencies are committed to participating in any further development of the plans, including any required field demonstrations, and (iii) that these agencies are committed to executing their responsibilities under the plans in the event of an emergency. The application must contain any certifications that have been obtained. If these	Appendix 3	Letters of Certification	Licensing action.

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**10 CFR 52.79 Contents of Applications; Technical Information**

REGULATION	STATEMENT	EPLAN	OTHER	COMMENTS
	certifications cannot be obtained, the application must contain information, including a utility plan, sufficient to show that the proposed plans nonetheless provide reasonable assurance that adequate protective measures can and will be taken in the event of a radiological emergency at the site.			

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**10 CFR 52.77 Contents of Applications; Additional Technical Information**

<b><u>REGULATION</u></b>	<b><u>STATEMENT</u></b>	<b><u>EPLAN</u></b>	<b><u>OTHER</u></b>	<b><u>COMMENTS</u></b>
10 CFR 52.77	The application must contain all of the information required by 10 CFR 50.33, as that section would apply to applicants for construction permits and operating licenses.	N/A		



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**Part 11**

**10 CFR 52.80 Contents of Applications, Additional Technical Information**

<u>REGULATION</u>	<u>STATEMENT</u>	<u>EPLAN</u>	<u>OTHER</u>	<u>COMMENTS</u>
10 CFR 52.80	(a) A plant-specific probabilistic risk assessment (PRA). If the application references a standard design certification or standard design approval, or if the application proposes to use a nuclear power reactor manufactured under a manufacturing license under subpart F of this part, the plant-specific PRA must use the PRA for the design certification, design approval, or manufactured reactor, as applicable, and must be updated to account for site-specific design information and any design changes, departures, or variances.	N/A		PRA Licensing action.
	(b) The proposed inspections, tests, and analyses, including those applicable to emergency planning, that the licensee shall perform, and the acceptance criteria which are necessary and sufficient to provide reasonable assurance that, if the inspections, tests, and analyses are performed and the acceptance criteria met, the facility has been constructed and will operate in conformity with the combined license, the provisions of the Atomic Energy Act, and the NRC's regulations.	N/A	ITAAC	
	(1) If the application references an early site permit with ITAAC, the early site permit ITAAC must apply to those aspects of the combined license which are approved in the early site permit.	N/A	ITAAC	
	(2) If the application references a standard design certification, the ITAAC contained in the certified design must apply to those portions of the facility design which are approved in the design certification.	N/A	ITAAC	
	(3) If the application references an early site permit with ITAAC or a standard design certification or both, the application may include a notification that a required inspection, test, or analysis in the ITAAC has been successfully completed and that the corresponding acceptance criterion has been met. The <b>Federal Register</b> notification required by § 52.85 must indicate that the application includes this notification.	N/A	N/A	N/A

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**Part 12**

**10 CFR 100 Reactor Site Criteria**

<b><u>REGULATION</u></b>	<b><u>STATEMENT</u></b>	<b><u>EPLAN</u></b>	<b><u>OTHER</u></b>	<b><u>COMMENTS</u></b>
10 CFR 100	.1 (c) Siting factors and criteria are important in assuring that radiological doses from normal operation and postulated accidents will be acceptably low, that natural phenomena and potential man-made hazards will be appropriately accounted for in the design of the plant, that site characteristics are such that adequate security measures to protect the plant can be developed, and that physical characteristics unique to the proposed site that could pose a significant impediment to the development of emergency plans are identified.	N/A	N/A	
10CFR100.21	(g) Physical characteristics unique to the proposed site that could pose a significant impediment to the development of emergency plans must be identified;	N/A	N/A	

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**NRC Bulletin 2005-04**

<u>Section</u>	<u>STATEMENT</u>	<u>EPLAN</u>	<u>OTHER</u>	<u>COMMENTS</u>
A	Security-based Emergency classification Levels and Emergency Action Levels	Annex 1, Section 2 Annex 2, Section 2	N/A	
B	NRC Notifications	N/A	N/A	Prompt notifications to the NRC regarding security events are addressed in Operations procedures as they are made prior to emergency classification.
C	Onsite Protective Actions	J.1		
D	Emergency Response Organization Augmentation	B, B.2; Table B-1		
E	Drill and Exercise Program	N		

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**NRC Bulletin 80-15**

<u>Section</u>	<u>STATEMENT</u>	<u>EPLAN</u>	<u>OTHER</u>	<u>COMMENTS</u>
BL 80-15	Back-up power for the ENS	F.4	N/A	

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**Part 15**

**Regulatory Issue Summary 2004-13**

<u>Section</u>	<u>STATEMENT</u>	<u>EPLAN</u>	<u>OTHER</u>	<u>COMMENTS</u>
RIS 2004-13	Sheltering in the Licensee's Range of Protective Action Recommendations	J.2.3	N/A	

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**Part 16**  
**Generic Letter 91-14**

<u>Section</u>	<u>STATEMENT</u>	<u>EPLAN</u>	<u>OTHER</u>	<u>COMMENTS</u>
GL 91-14	Emergency Communications	F.1	N/A	

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Information Notice 85-44**

<u>Section</u>	<u>STATEMENT</u>	<u>EPLAN</u>	<u>OTHER</u>	<u>COMMENTS</u>
IN 85-44	Emergency Communication System Monthly Test	N.2.1.a	N/A	