

REVISION LOG SHEET

Revision Date: PORC December 29, 1982 (Issued February 9, 1983)

This log sheet must be retained as the last page of the Sequoyah
Implementing Procedure Document.

Inserted by: _____

Date Inserted: _____

<u>Pages to be Removed</u>			<u>New Pages to be Inserted</u>		
Part	Page Number	Revision	Part	Page Number	Revision
IP-1	Cover Page 1 thru 40	Rev. 3 Various	IP-1	Cover Page 1 thru 40	Rev. 4 Rev. 4
IP-3	Cover Page 1 of 2 2 of 2	Rev. 4 Rev. 3 Rev. 4	IP-3	Cover Page 1 of 2 2 of 2	Rev. 5 Rev. 5 Rev. 5
IP-4	Cover Page 1 of 2 2 of 2	Rev. 4 Rev. 3 Rev. 4	IP-4	Cover Page 1 of 2 2 of 2	Rev. 5 Rev. 5 Rev. 5
IP-5	Cover Page 1 of 2 2 of 2	Rev. 4 Rev. 3 Rev. 4	IP-5	Cover Page 1 of 2 2 of 2	Rev. 5 Rev. 5 Rev. 5

Sequoyah Nuclear Plant

SNP REP - IMPLEMENTING PROCEDURES DOCUMENT

SNP, IP-1 EMERGENCY PLAN CLASSIFICATION LOGIC

Prepared By: J. R. Walker

Revised By: M. R. Harding

Submitted By: R. J. Kitts
Supervisor

PORC Review: 12/29/82
Date

Approved By: [Signature]
Pwr Plt Superintendent

Date Approved: 12/29/82

DISTRIBUTION

1C	81 Plant Master File
1C	83 Asst. Power Plant Supt. (Oper.)
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1C	96 Emergency Cabinet Control Room
1C	97 Emergency Cabinet Communications Room
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1C	103 Unit Control Room
1C	105 Health Physics Laboratory
1C	106 Medical Office
1C	107 Resident NRC Inspector - SNP
1C	108 Technical Support Center
1C	109 Assistant HP Supervisor
1C	110 Plant Duty Supervisor
1C	111 Asst. Power Plant Supt. (H&S)
1C	EP&P Sliger, Eric K., 1470 CST2-C

<u>Rev. No.</u>	<u>Date</u>	<u>Revised Pages</u>	<u>Rev. No.</u>	<u>Date</u>	<u>Revised Pages</u>
2	6/8/81	All			
3	8/26/81	Revised 2, Added 32A, 32B and 32C			
4	12-29-82	All			

The last page of this instruction is Number 40.

EMERGENCY PLAN CLASSIFICATION LOGIC

1.0 PURPOSE

This procedure guides the shift engineer in determining the class of an accident based on plant conditions.

2.0 GENERAL

The TVA radiological emergency plan will be activated when any one of the conditions listed in this logic is detected. The shift engineer is responsible for declaring the emergency and providing the initial activation of the emergency plan.

To determine the classification of the emergency, enter the logic with the known or suspected conditions and carry out the notification referenced. If there is any reason to doubt whether a given condition has actually occurred, the shift engineer or Site Emergency Director will proceed with the required notification without waiting for formal confirmation. If followup investigations show that a suspected condition has not occurred, is less severe, or more severe than originally suspected, the classification will be cancelled, downgraded, or upgraded as required.

The following actions are given for guidance only: knowledge of actual plant conditions or the extent of the emergency may require that additional steps be taken. In all cases, this logic procedure should be combined with the sound judgement of the shift engineer and/or the Site Emergency Director to arrive at a classification for a particular set of circumstances.

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ENGINEERED SAFETY FEATURES

Reactivity Control Systems	Flow Paths - Operating	LCO 3.1.2.2
	Charging Pumps - Operating	LCO 3.1.2.4
	Borated Water Sources - Operating	LCO-3.1.2.6
Instrumentation	ESF Actuation System	LCO 3.3.2.1
	Instrumentation	
Reactor Coolant System	Pressurizer Safety Valves - Operating	LCO 3.4.3
	RCS Leakage Detection System	LCO 3.4.6.1
Emergency Core Cooling System	Cold Leg Accumulators	LCO 3.5.1.1
	WHI Accumulators	LCO 3.5.1.2
	ECCS Subsystems Tavg $\geq 350^{\circ}\text{F}$	LCO 3.5.2
	Boron Injection Tank	LCO 3.5.4.1
	Heat Tracing	LCO 3.5.4.2
	Refueling Water Storage Tank	LCO 3.5.5
Containment Systems	Primary Containment	LCO 3.6.1.1
	Integrity	
	EGTS Cleanup Subsystem	LCO 3.6.1.8
	Containment Spray System	LCO 3.6.2.1
	Hydrogen Analyzers	LCO 3.6.4.1
	Electric Hydrogen Recombiners	LCO 3.6.4.2
	Ice Condenser	LCO 3.6.5.1
	Ice Bed Temp. Monitoring System	LCO 3.6.5.2
	Ice Condenser Doors	LCO 3.6.5.3
	Inlet Door Position Monitoring System	LCO 3.6.5.4
	Containment Air Return Fans	LCO 3.6.5.6
	Floor Drains	LCO 3.6.5.7
Plant Systems	Vacuum Relief Valves	LCO 3.6.6.1
	Auxiliary Feedwater	LCO 3.7.1.2
	Condensate Storage Tank	LCO 3.7.1.3
	Main Steam Isolation Valves	LCO 3.7.1.5
	Component Cooling Water Sys	LCO 3.7.3.1
	Essential Raw Cooling Water	LCO 3.7.4.1
	Auxiliary ERCW	LCO 3.7.4.2
	Control Room Emergency Vent System	LCO 3.7.7.1
Electrical Power System	Auxiliary Building Gas Treatment System	LCO 3.7.8.1
	Diesel Generators	LCO 3.8.1.1
	Onsite Power Distribution System	LCO 3.8.2.1
	125 VDC Vital	LCO 3.8.2.3

Loss of ESF
function that
requires shutdown
by Tech Specs

YES
↓
IP-2

Notification
of Unusual
Event

NO
↓

NO ACTION

ENGINEERED SAFETY FEATURES
(Continued)

Failure of reactor protection system to initiate a trip, both manual and automatic, which could result in core damage, or add. failure of core cooling and makeup systems which could lead to core melting

YES → IP-5
General
Emergency

NO ↓

Transient requiring operation of shutdown systems with a failure to trip (continued power generation but no core damage eminent)
(ATWS)

YES → IP-4
Site Area
Emergency

NO ↓

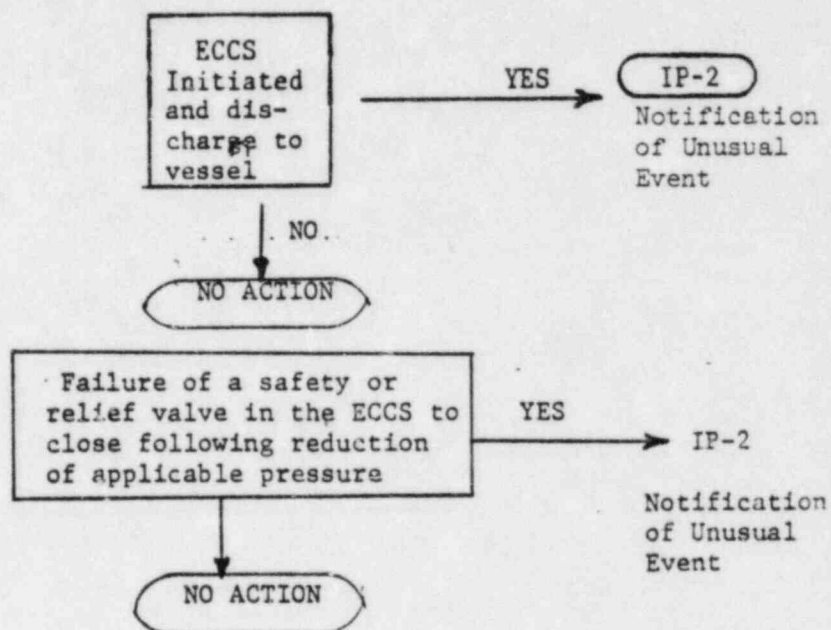
Failure of reactor protection system to initiate and complete a trip which brings the Reactor Subcritical

YES → IP-3
Alert

NO ↓

NO ACTION

EMERGENCY CORE COOLING SYSTEM



ANNUNCIATORS, INSTRUMENTS AND CONTROLS

All Alarms (annunciators) lost
for more than 15 minutes and
plant transient initiated or
in progress while all alarms
lost

YES

IP-4

Site Area
Emergency

NO

Most or
All Alarms (annunciators) lost
for more than 15 minutes
and plant is in mode 4 or
above.

YES

IP-3

Alert

NO

Loss of Indication or Alarms On
(1) Process or effluent parameters
to extent requiring shutdown
per Tech Spec ACTION or,
(2) PAMs to extent requiring
shutdown per Tech Spec
ACTION

OR

Loss of Assessment On
(1) Process computers to extent
requiring shutdown per
shift supervisor (SRO)
decision or,
(2) A loss of ALL Meteorological
Instrumentation, Local and
Remote, listed in Instrumen-
tation section of the Tech
Spec

YES

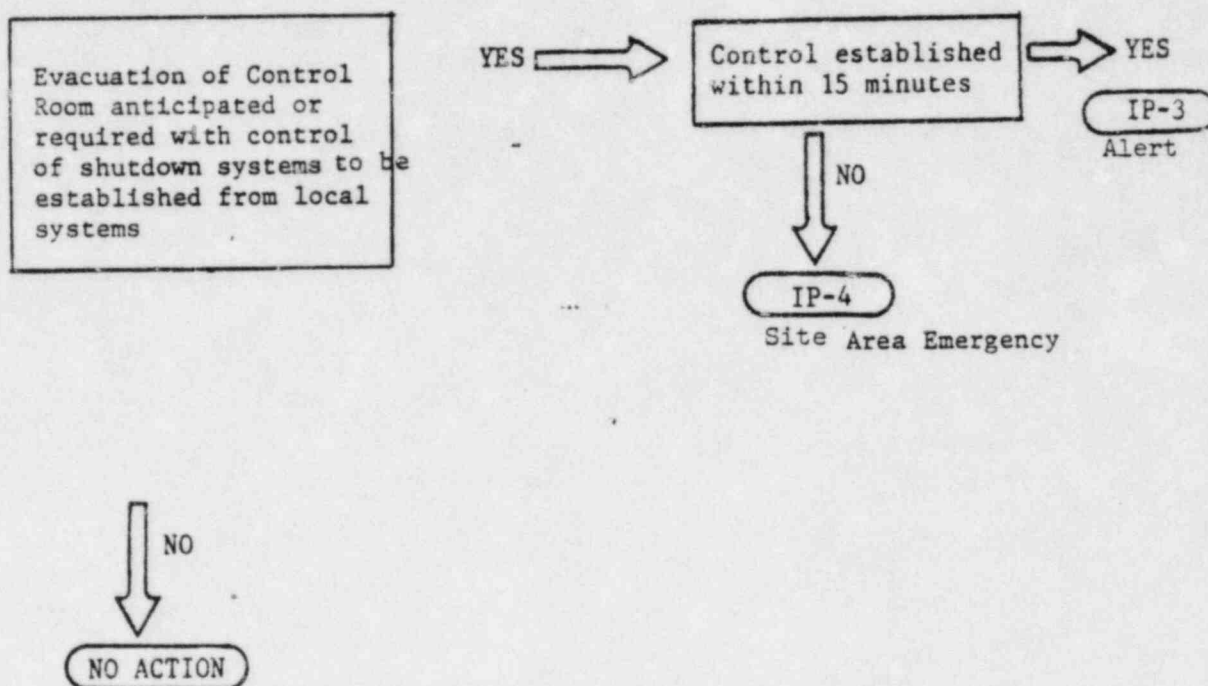
IP-2

Notification of
Unusual Event

NO

NO ACTION

CONTROL ROOM EVACUATION



MEDICAL

Transportation of contaminated
injured individual from site to
offsite hospital

YES

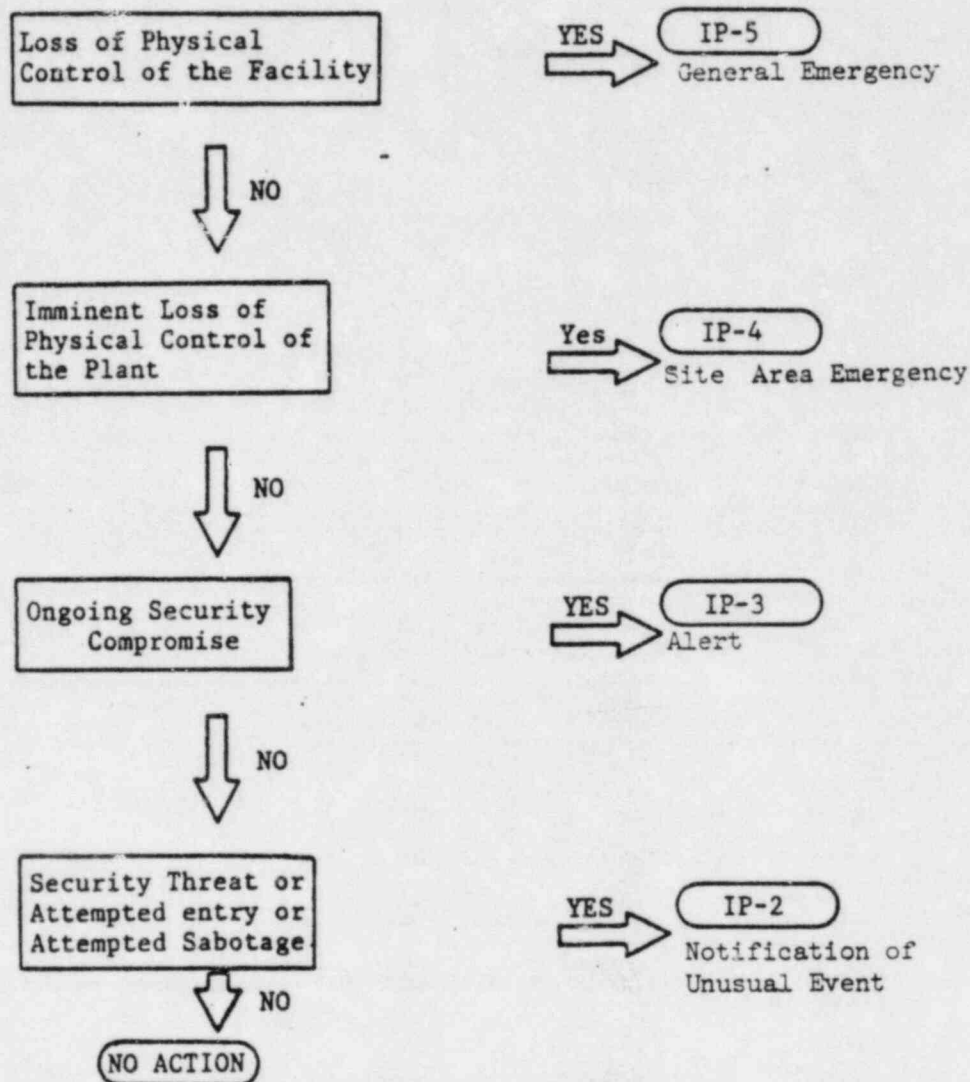
IP-2

Notification of
Unusual Event

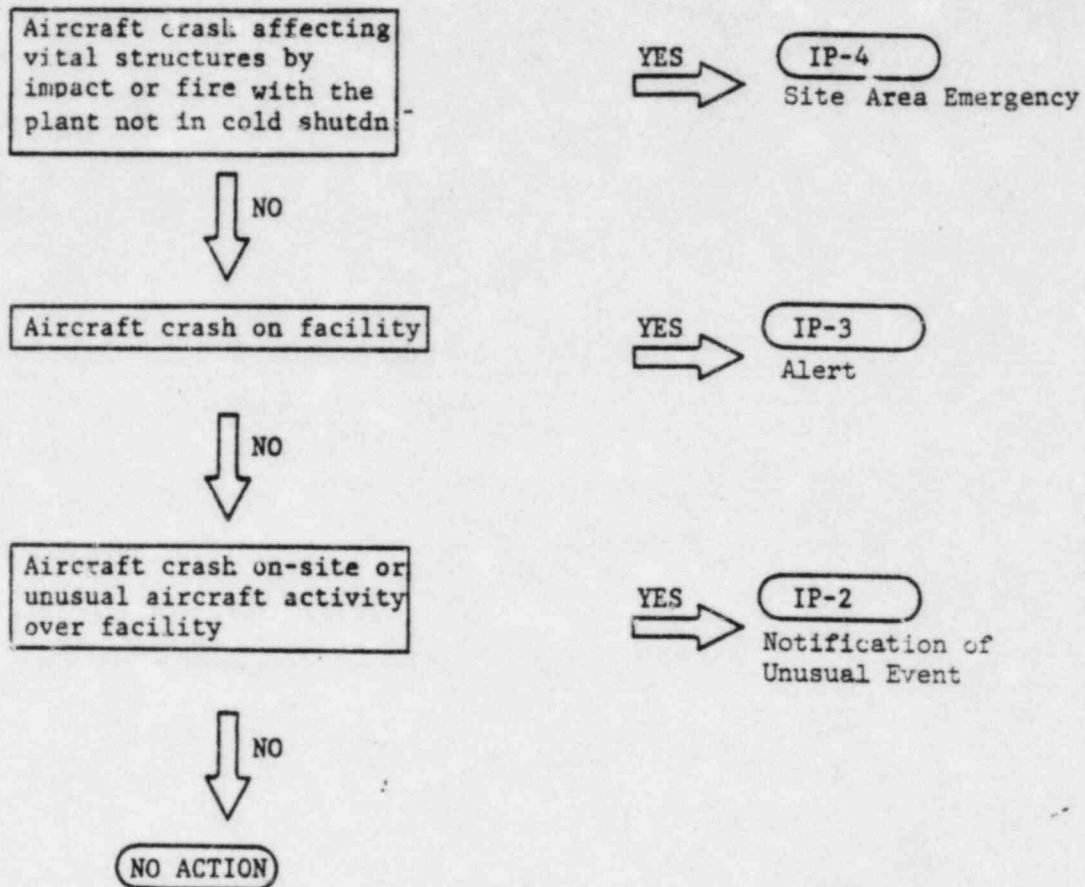
NO

NO ACTION

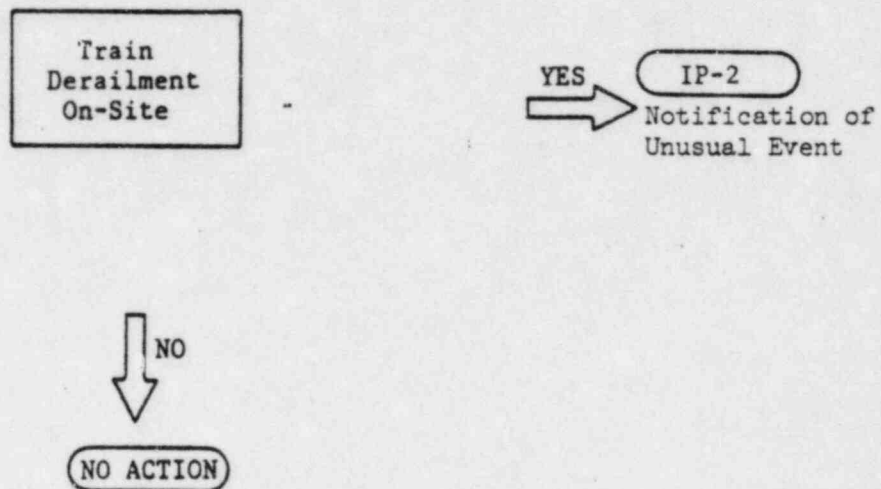
PLANT PHYSICAL SECURITY



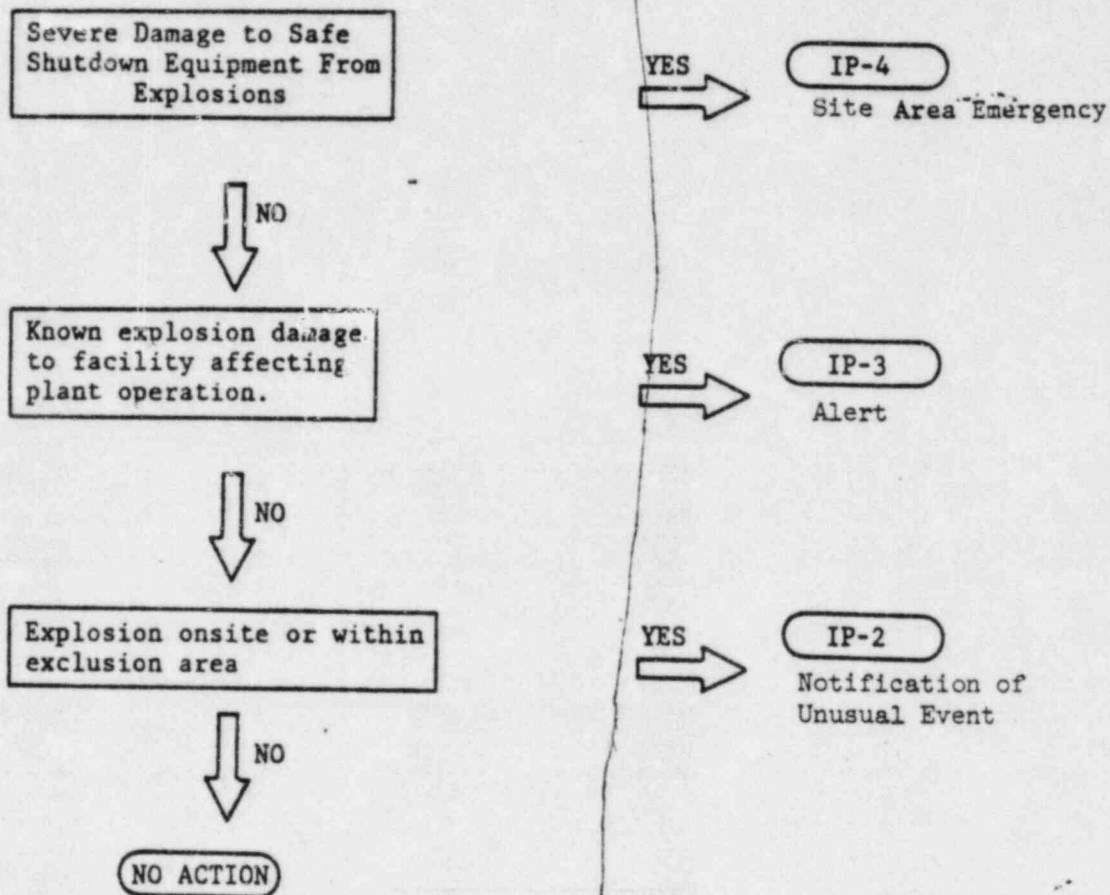
AIRCRAFT



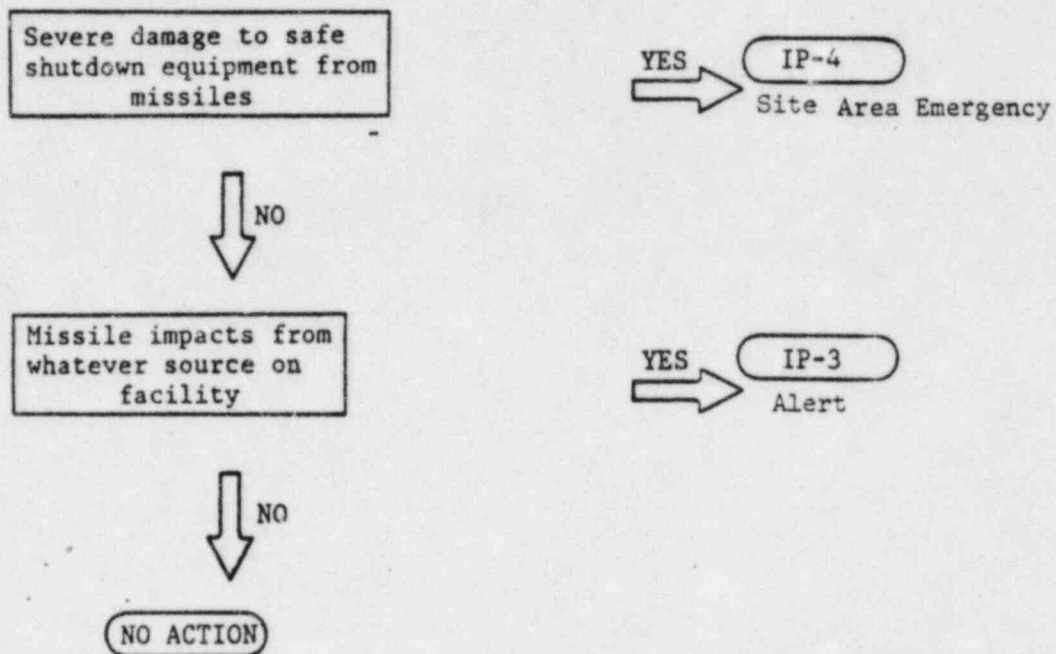
TRAIN



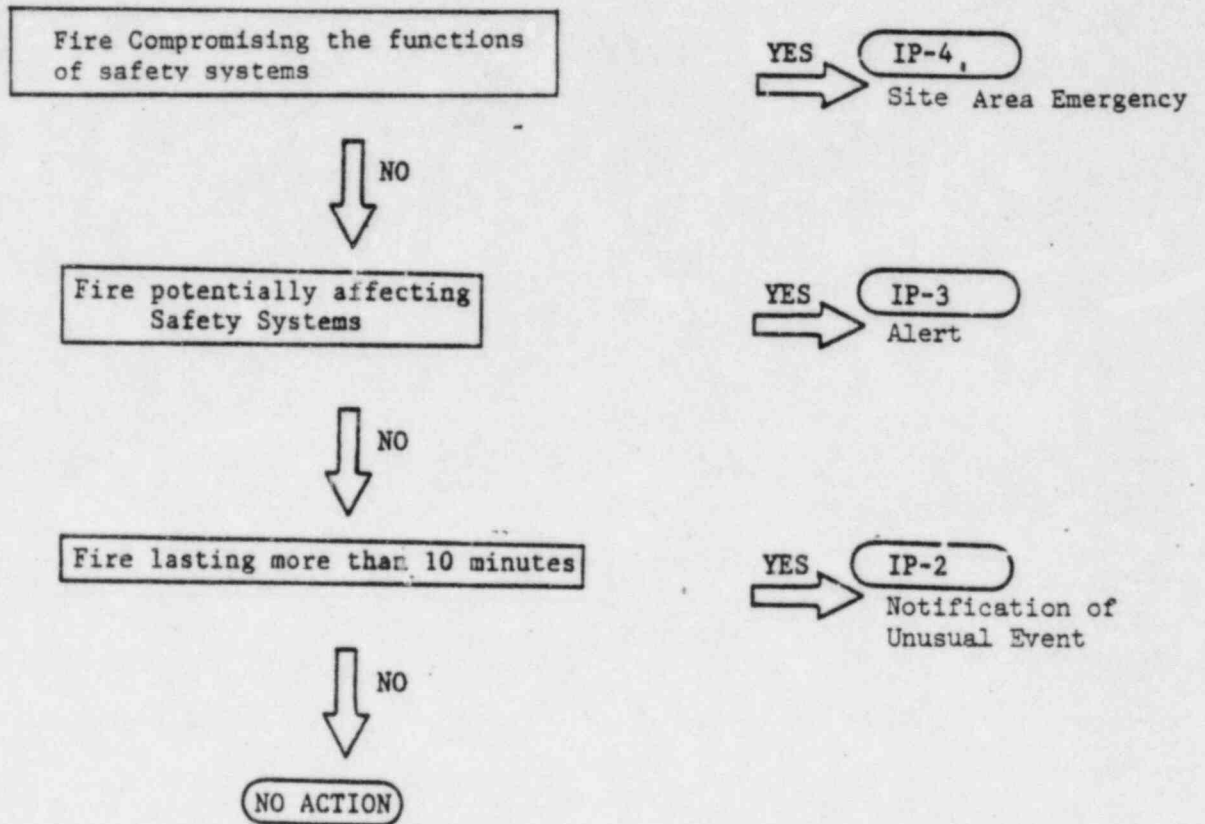
EXPLOSIONS



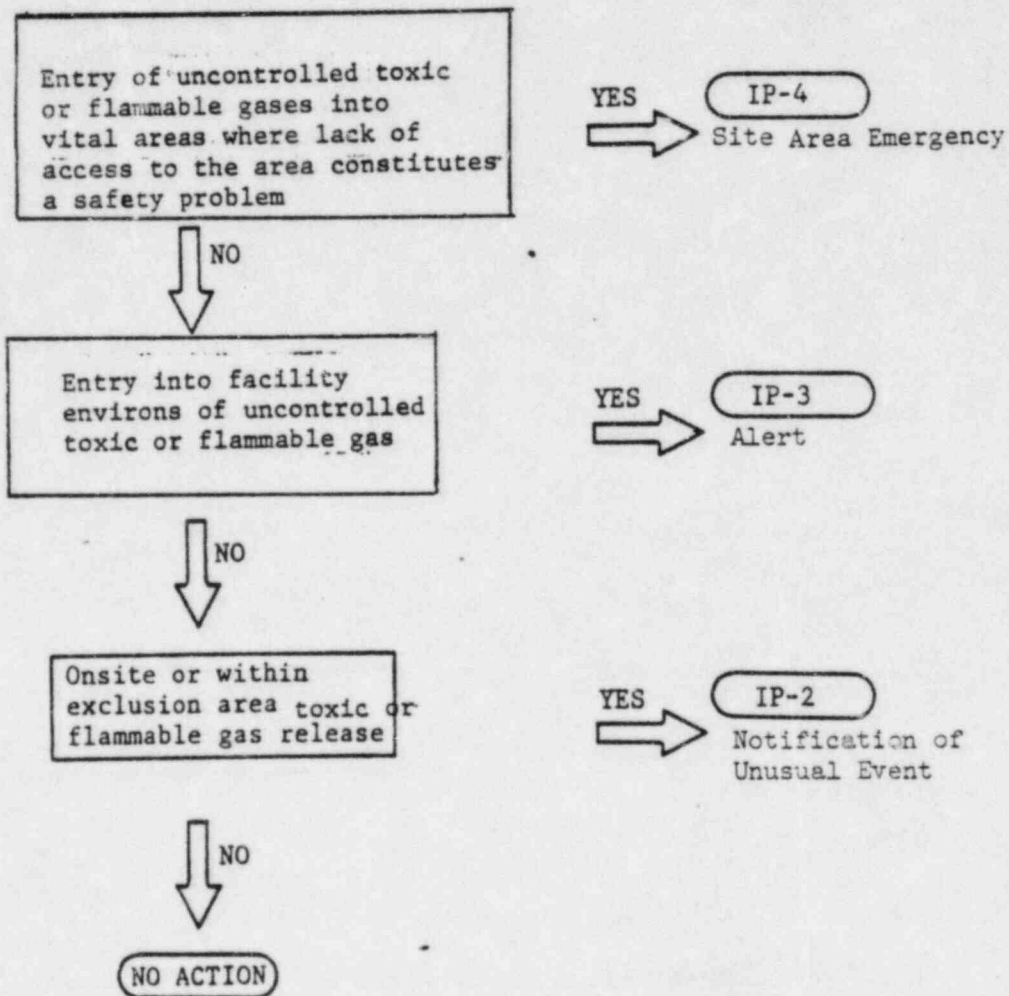
MISSILES



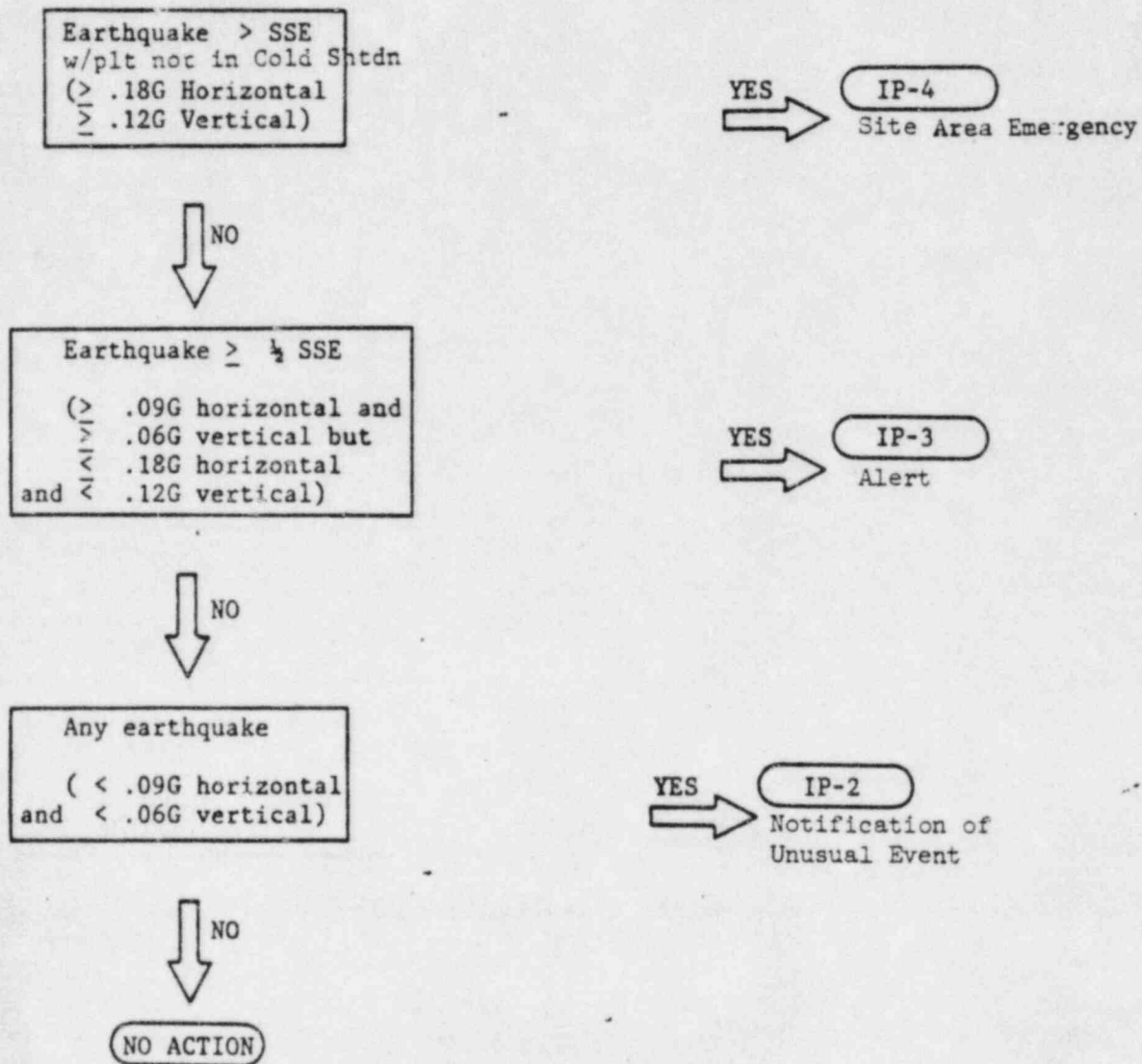
FIRE



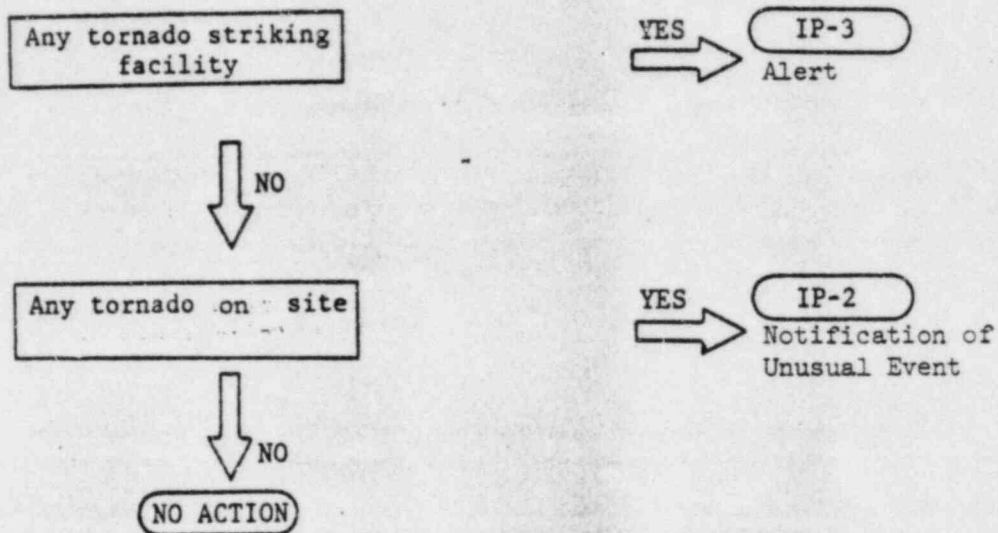
GASES: TOXIC OR FLAMMABLE



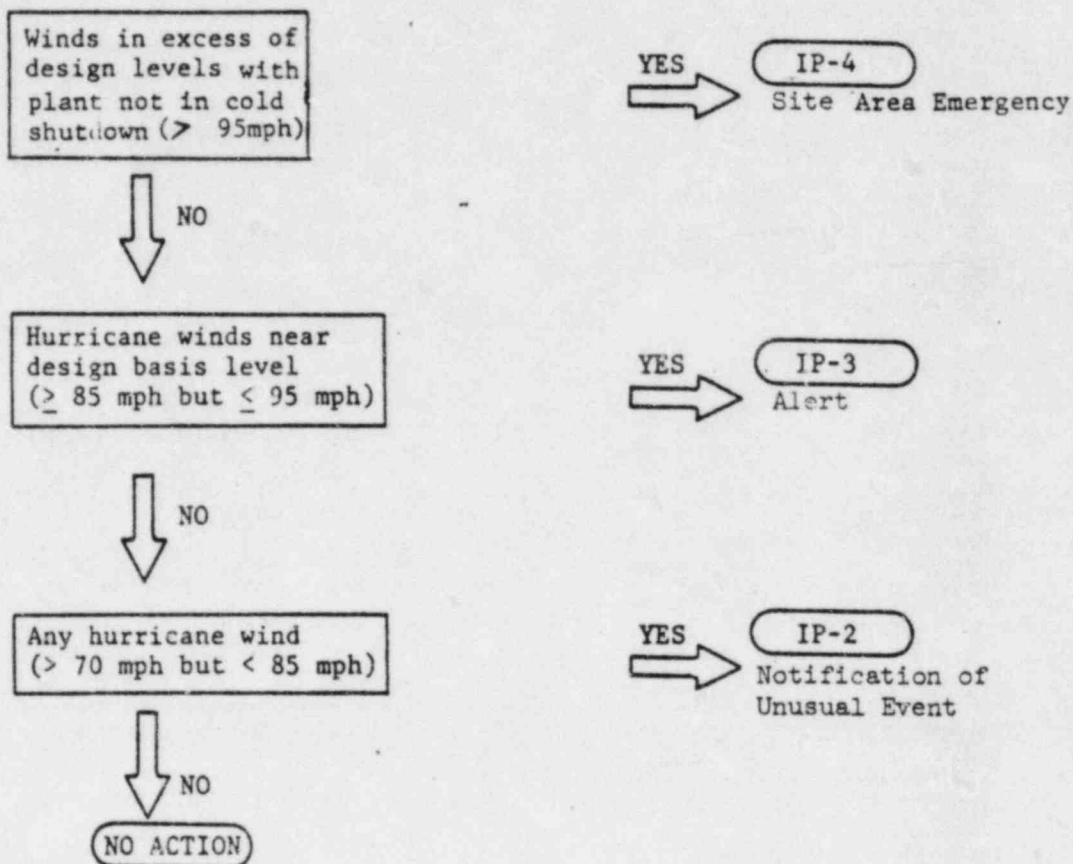
EARTHQUAKE



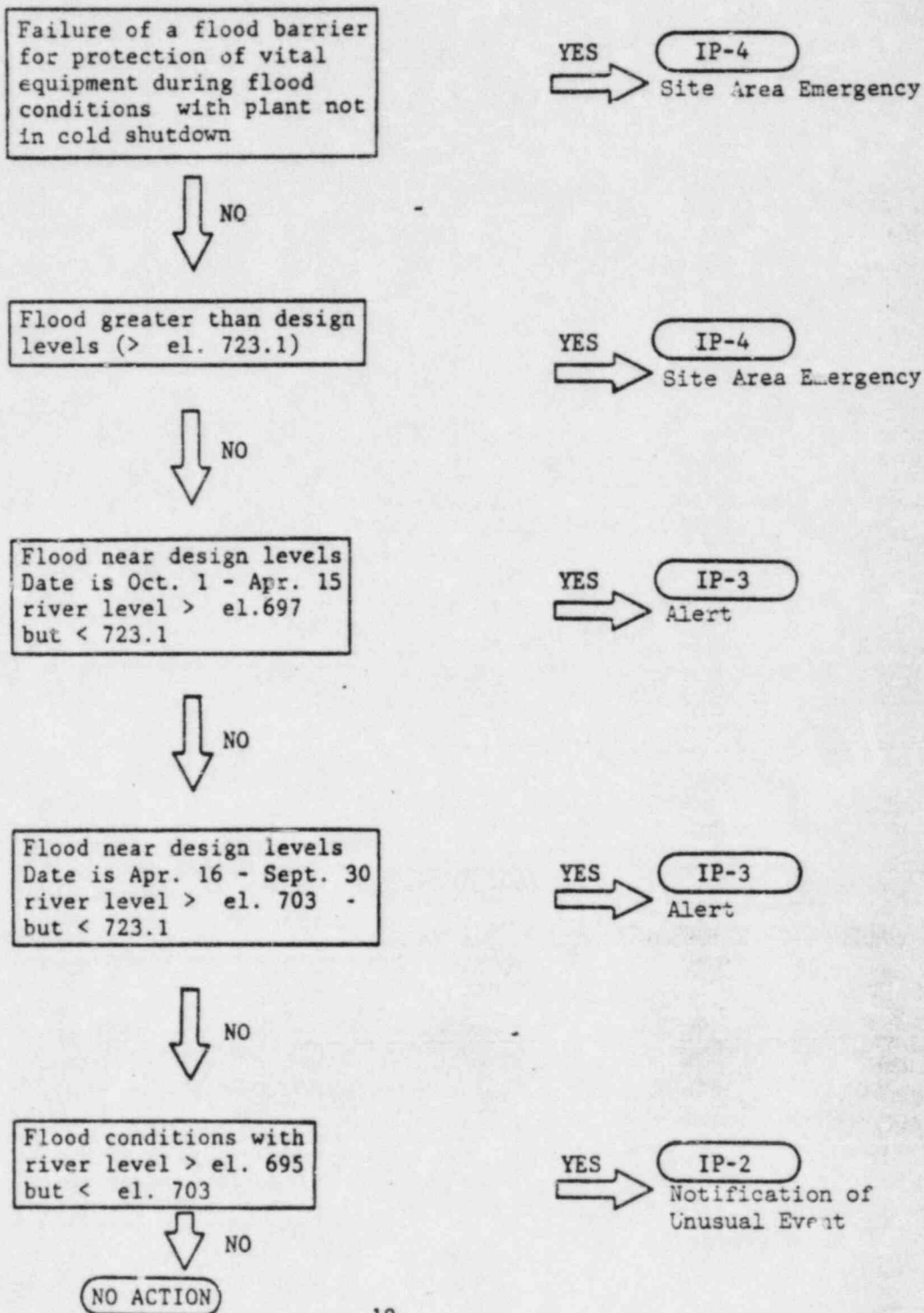
TORNADO



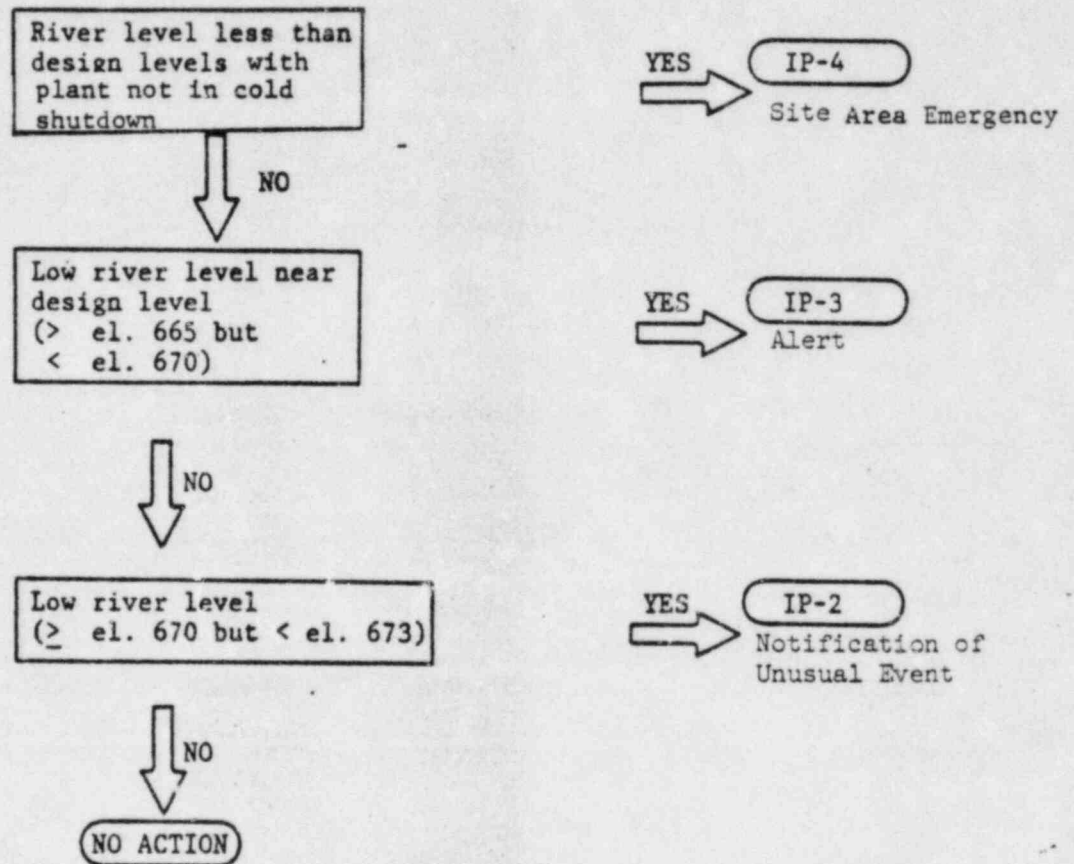
HIGH WINDS



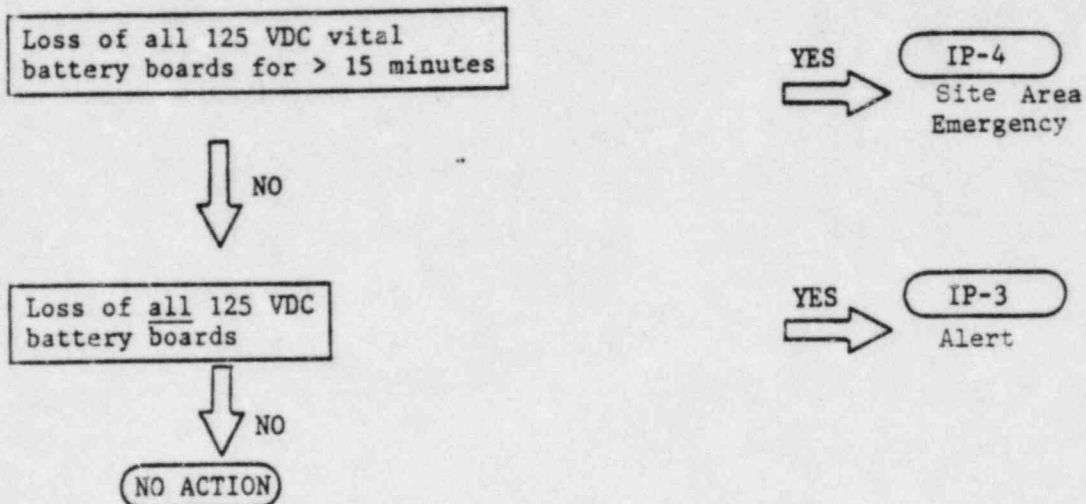
FLOOD



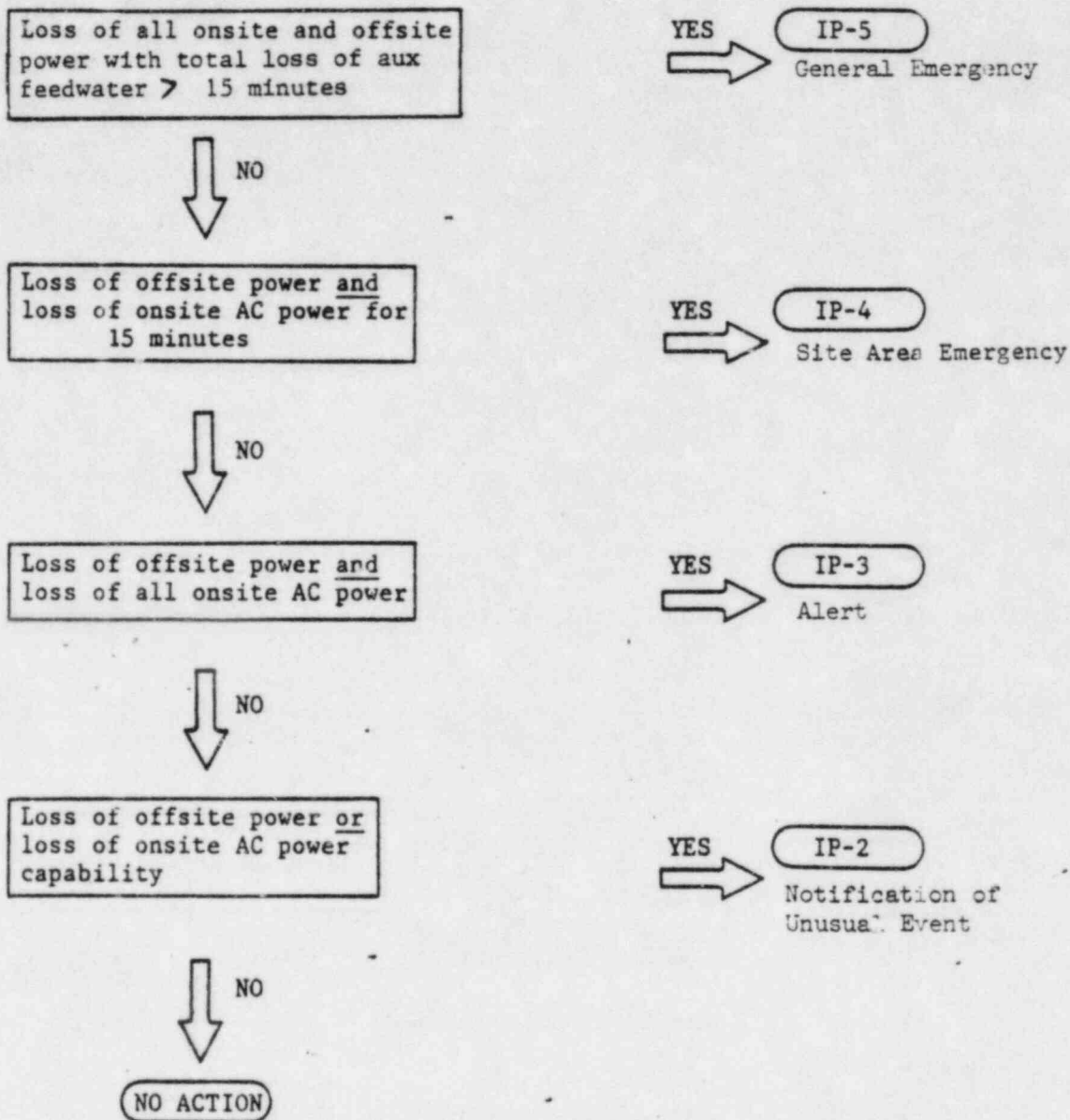
LOW WATER



ELECTRICAL: DC PROBLEM



ELECTRICAL: AC PROBLEM



TURBINE FAILURE

Turbine failure causing
casing penetration

YES
→

IP-3
Alert

↓ NO

Turbine rotating component
failure causing rapid plant
shutdown

YES
→

IP-2
Notification of
Unusual Event

↓ NO

NO ACTION

STEAMLINE BREAK

Steam line break with > 50 gpm
primary to secondary leakage
and indication of fuel damage

YES

IP-4

Site Area Emergency



NO

Steam line break with > 10
gpm primary to secondary leak
rate

YES

IP-3

Alert



NO

Failure of a safety or relief
valve to close resulting in a
cooldown

YES

IP-2

Notification of
Unusual Event



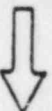
NO

Rapid depressurization of
secondary plant

Yes

IP-2

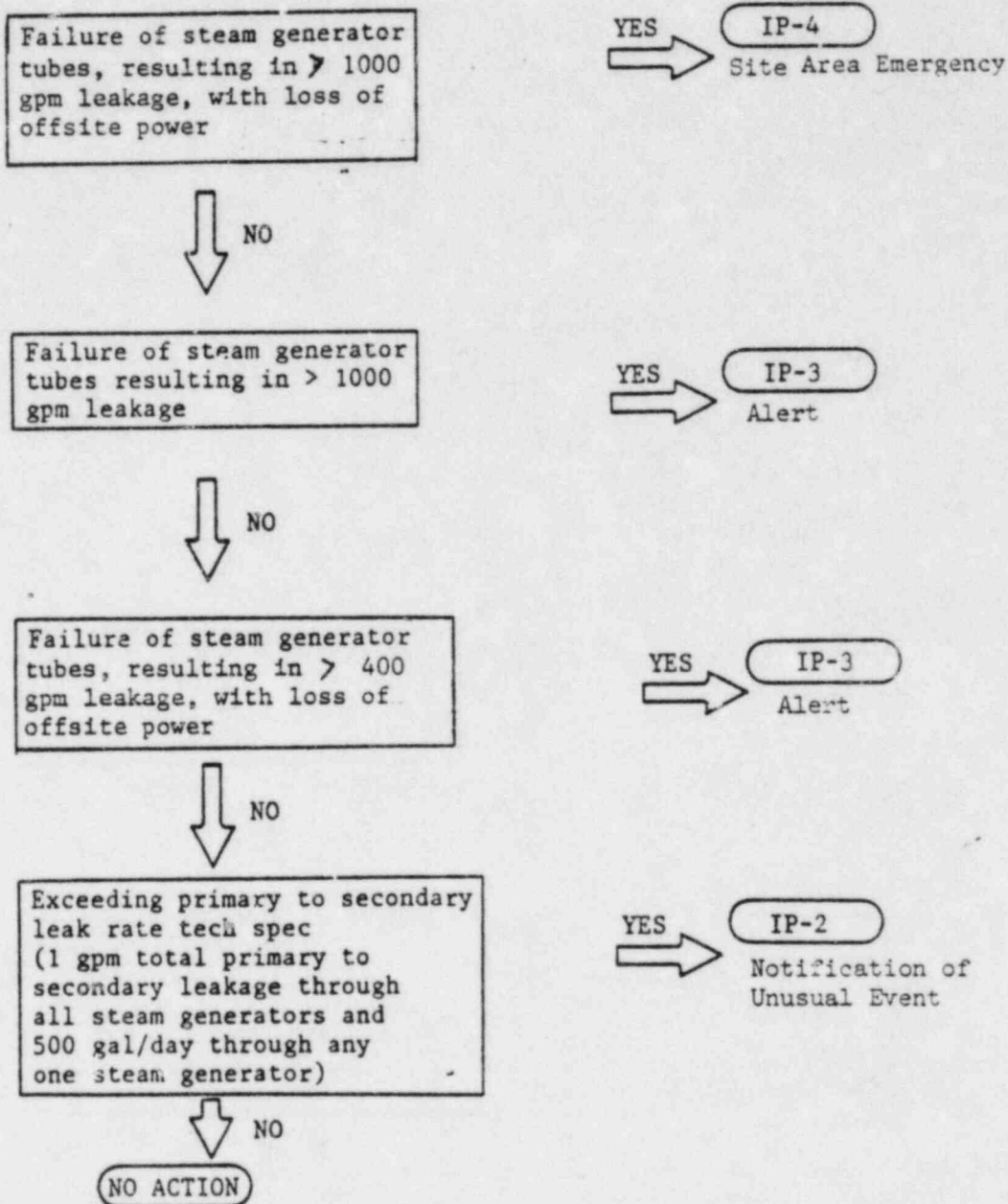
Notification of
Unusual Event



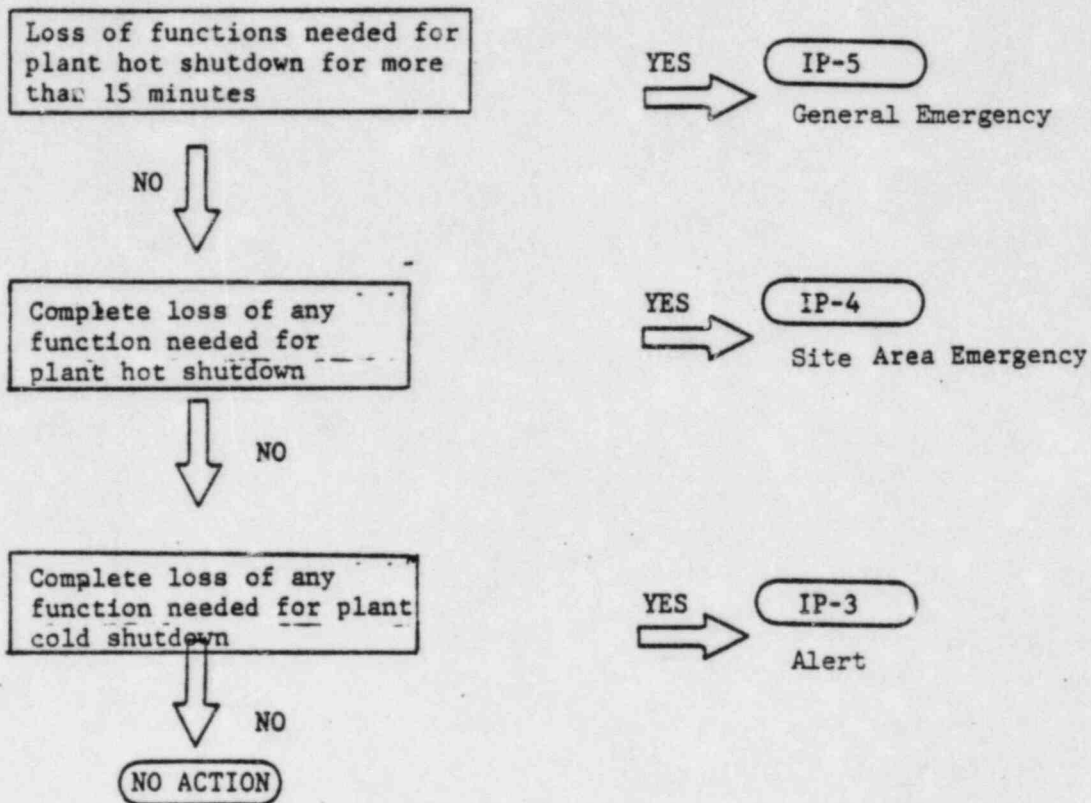
NO

NO ACTION

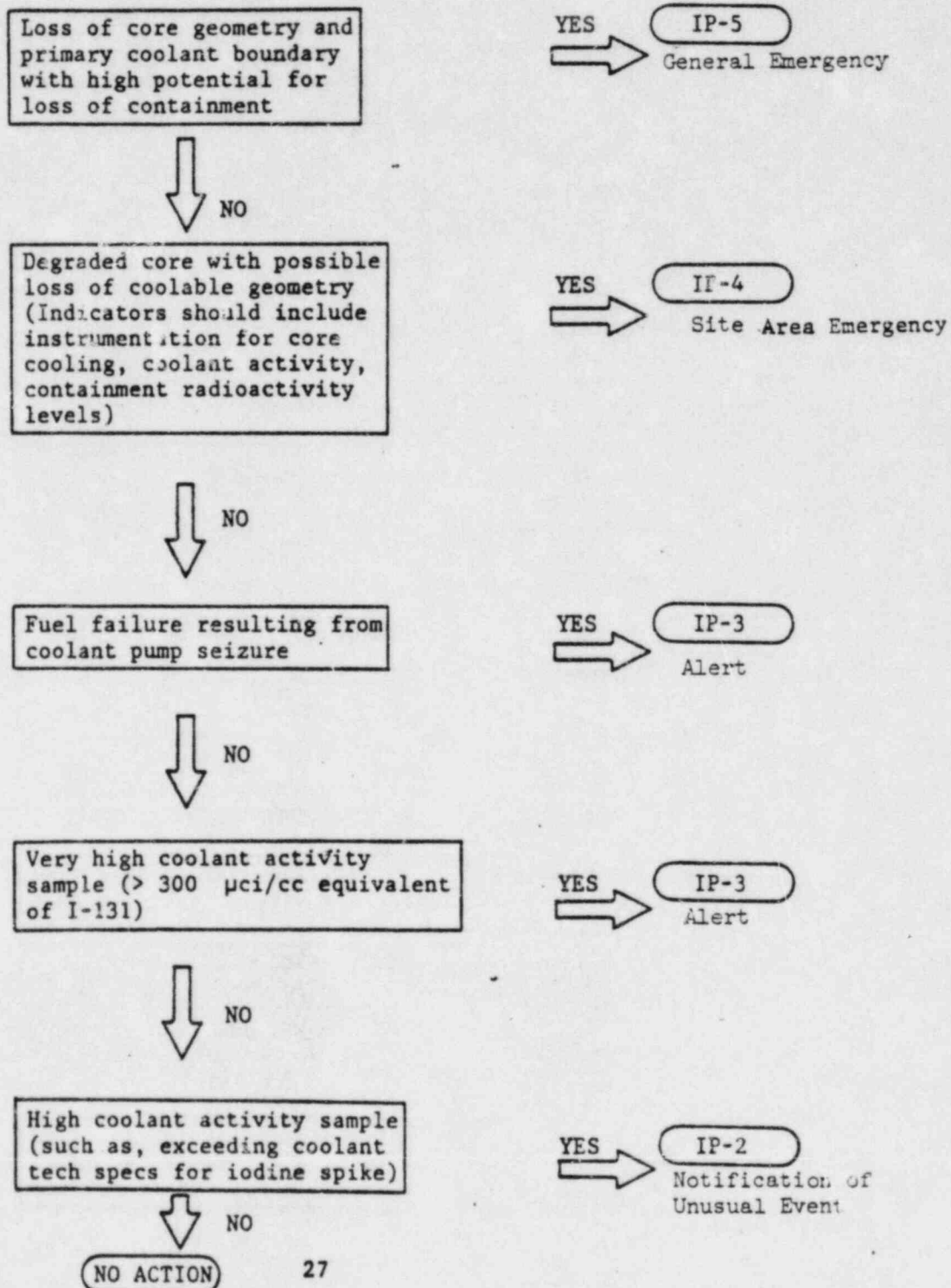
STEAM GENERATOR TUBE LEAKAGE



LOSS OF COOLDOWN CAPABILITIES

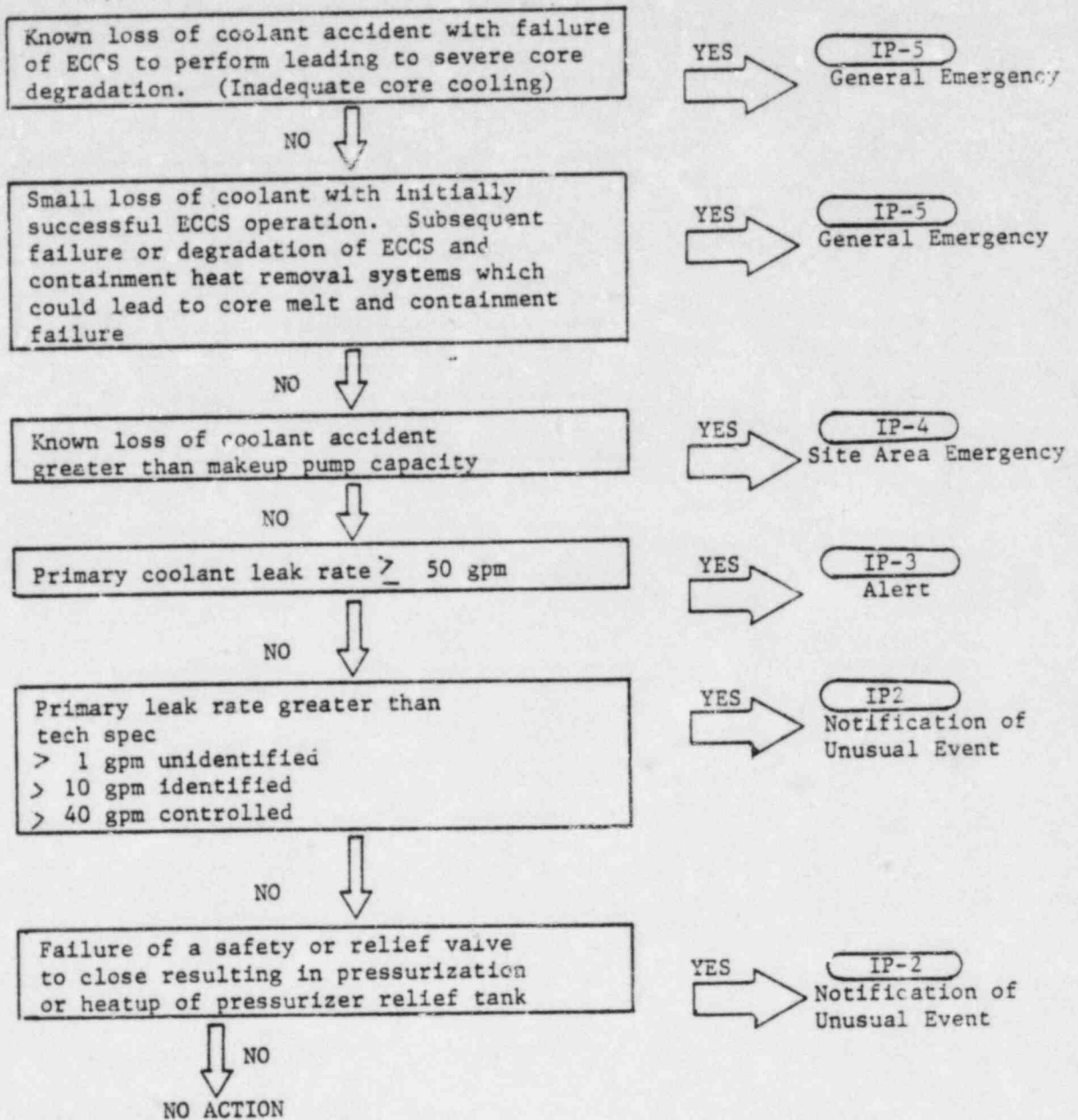


FUEL (CORE) DAMAGE

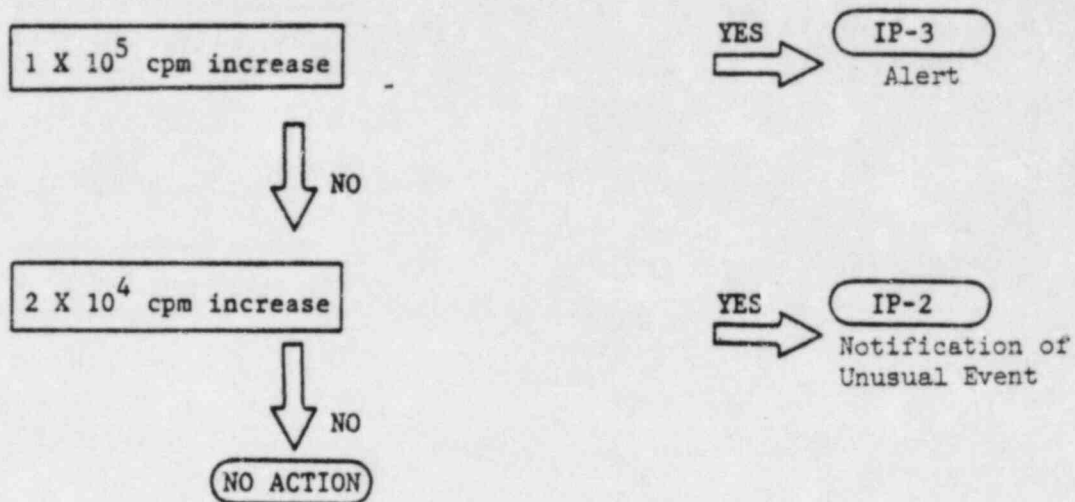


PRIMARY COOLANT LEAKAGE

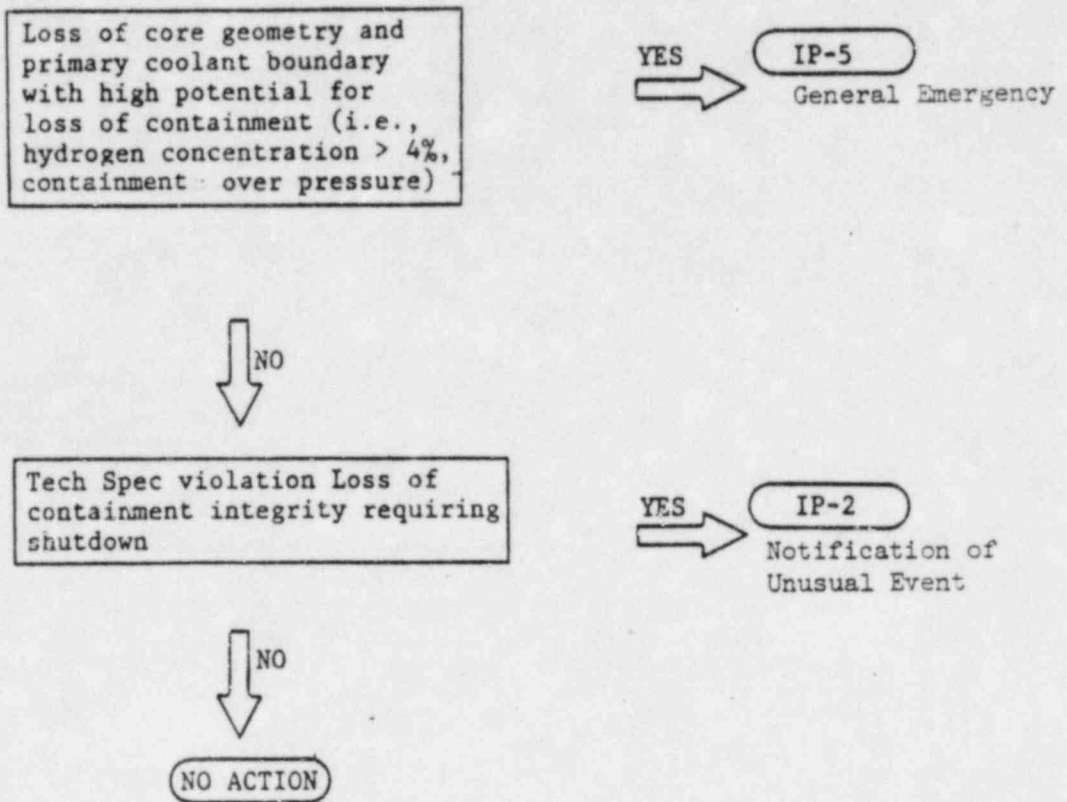
SQNP
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FAILED FUEL MONITOR



CONTAINMENT INTEGRITY



AREA RADIATION LEVELS

High Radiation levels or high airborne contamination which indicates a severe degradation in the control of radioactive materials. (such as, an increase of a factor of 1000 in direct radiation readings within facility)

YES

IP-3

Alert

NO

NO ACTION

RADIOLOGICAL EFFLUENTS

1 Rem/hr whole body or 5 Rem/hr. thyroid at site boundary with actual metrological conditions. These dose rates are projected based on other parameters (e.g. radiation levels in containment with leak rate appropriate for existing containment pressure with some conformation from effluent monitors) or are measured in the environs

YES

IP-5

General Emergency

NO

500 MR/hr whole body or 2500 MR/hr thyroid at site boundary for 2 mins. in worst metrological condition. (Rates projected on plant parameters or measured in environs)

YES

IP-4

Site Area
Emergency

NO

50 MR/hr whole body or 250 MR/hr thyroid at site boundary for $\frac{1}{2}$ hr. in worst metrological condition. (Rates projected on plant parameters or measured in environs)

YES

IP-4

Site Area
Emergency

NO

10 times tech spec instantaneous limit, 2.6 curies/sec noble gas (an instantaneous rate which, if continued for 2 hours, -would result in 1 MR at site boundary under average metrological conditions)

YES

IP-3

Alert

NO

Radiological effluent Tech. Spec. limit exceed

YES

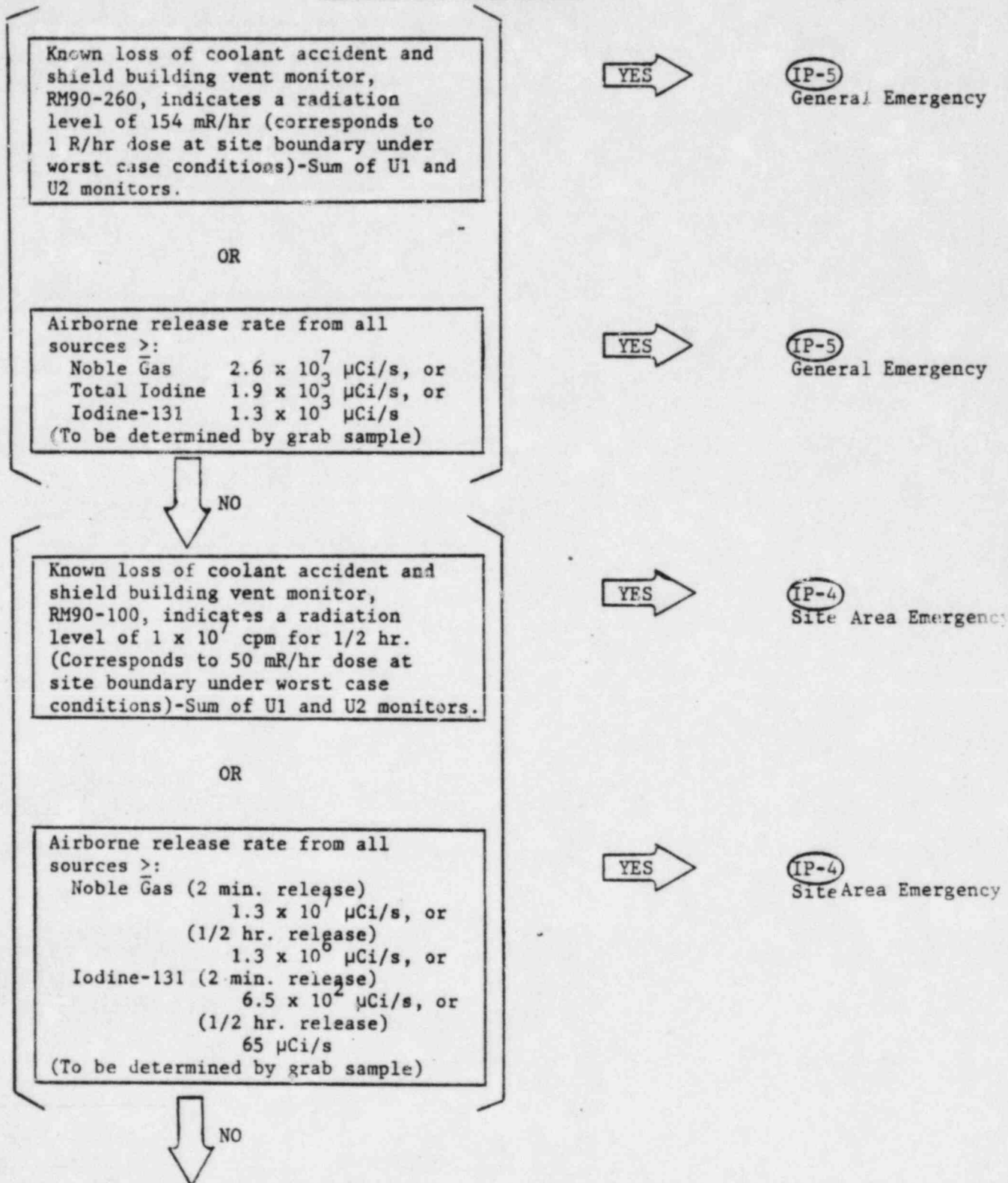
IP-2

Notification of
Unusual Event

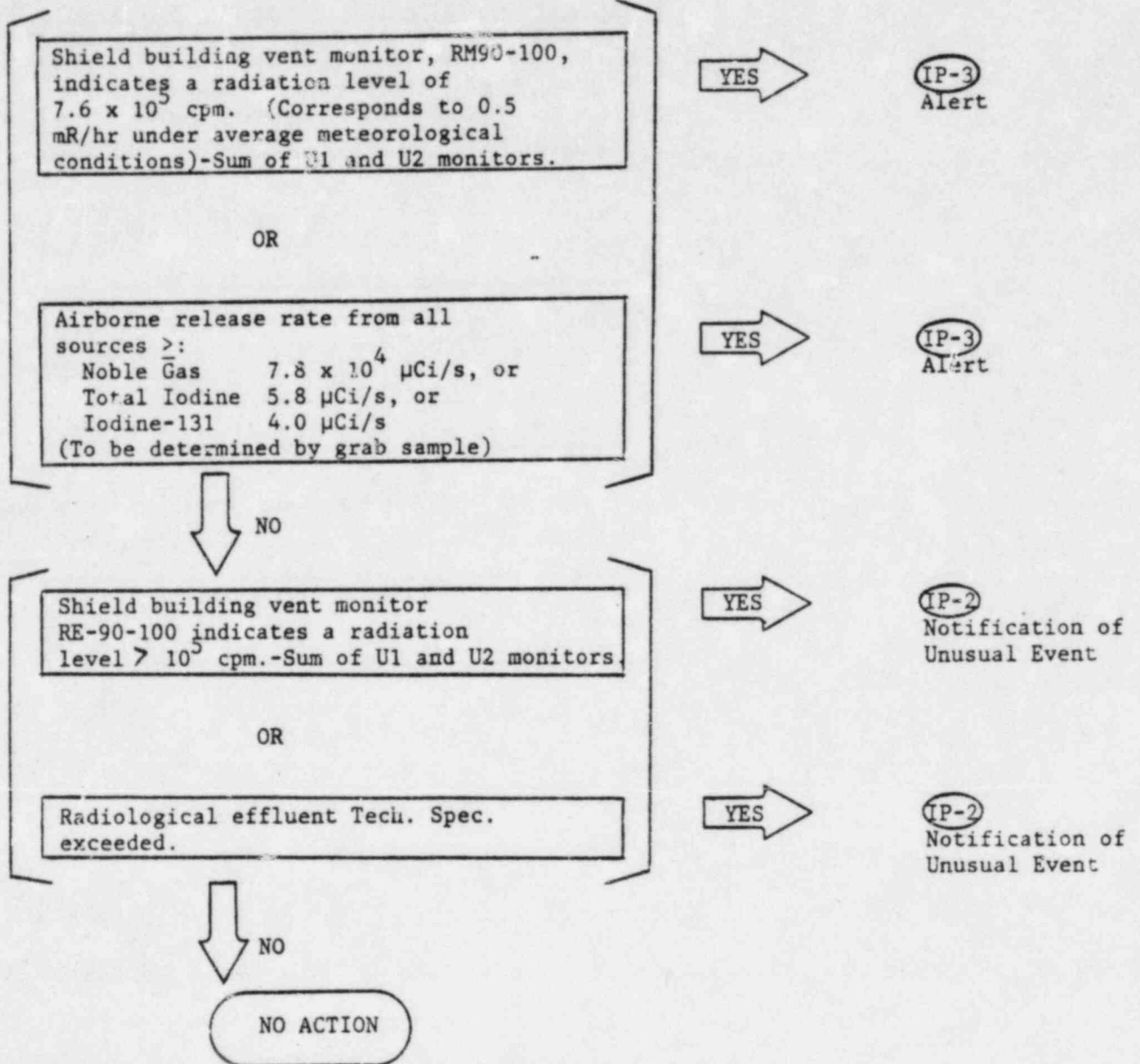
NO

NO ACTION

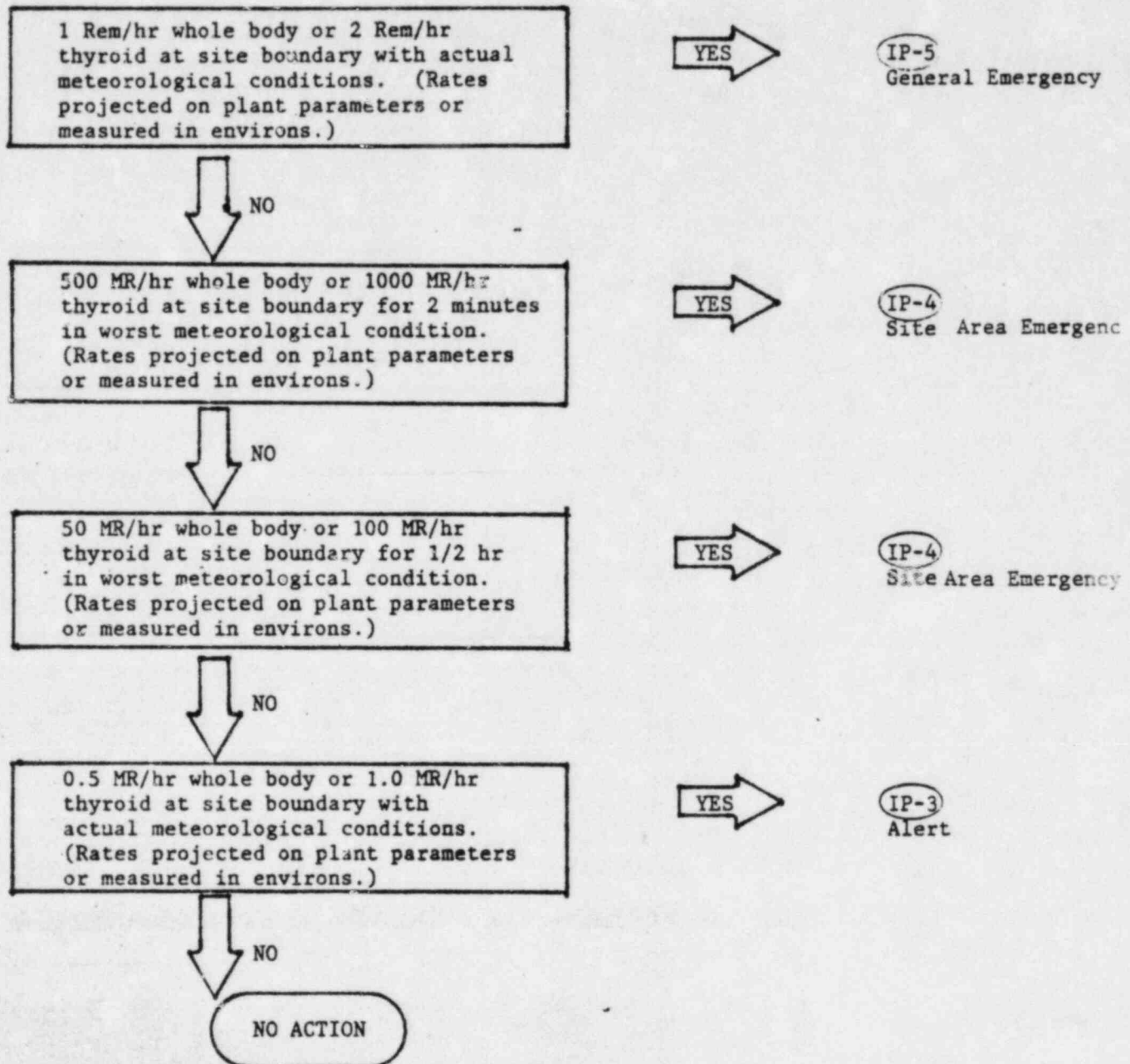
OFFSITE DOSE ASSESSMENT



OFFSITE DOSE ASSESSMENT (Continued)



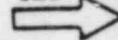
OFFSITE DOSE ASSESSMENT (Continued)



FUEL HANDLING INCIDENT

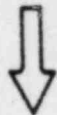
Major damage to spent fuel
in containment or auxiliary
building (large object damages
fuel or water loss below fuel
level, etc.)

YES



IP-4

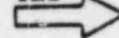
Site Area Emergency



NO

Fuel damage accident with release
of radioactivity to containment
or auxiliary building

YES



IP-3

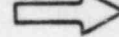
Alert



NO

Tech Spec violation that requires
no further core alterations and
warrants increased awareness of
state and local authorities

YES



IP-2

Notification of
Unusual Event



NO

NO ACTION

ABNORMAL PLANT CONDITIONS

Plant conditions exist, from whatever source, that make release of large amounts of radioactivity in a short time period possible (such as, any core melt situation)

YES → IP-5
General Emergency

NO
↓

Warranting activation of emergency centers and monitoring teams and a precautionary public notification

YES → IP-4
Site Area Emergency

NO
↓

Warranting precautionary activation of Technical Support Center and Emergency Control Center

YES → IP-3
Alert

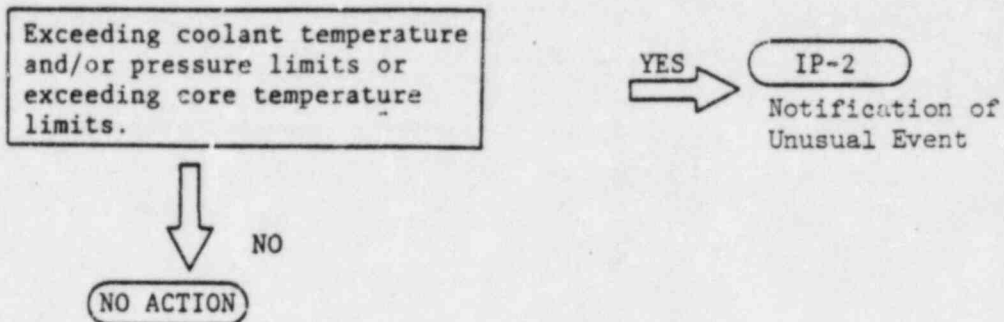
NO
↓

Warranting awareness of plant operating staff or state and/or local authorities or require plant shutdown under technical specification requirements or involve other than normal controlled shutdown (e.g., cooldown rate exceeding technical specifications, pipe cracking found during operation)

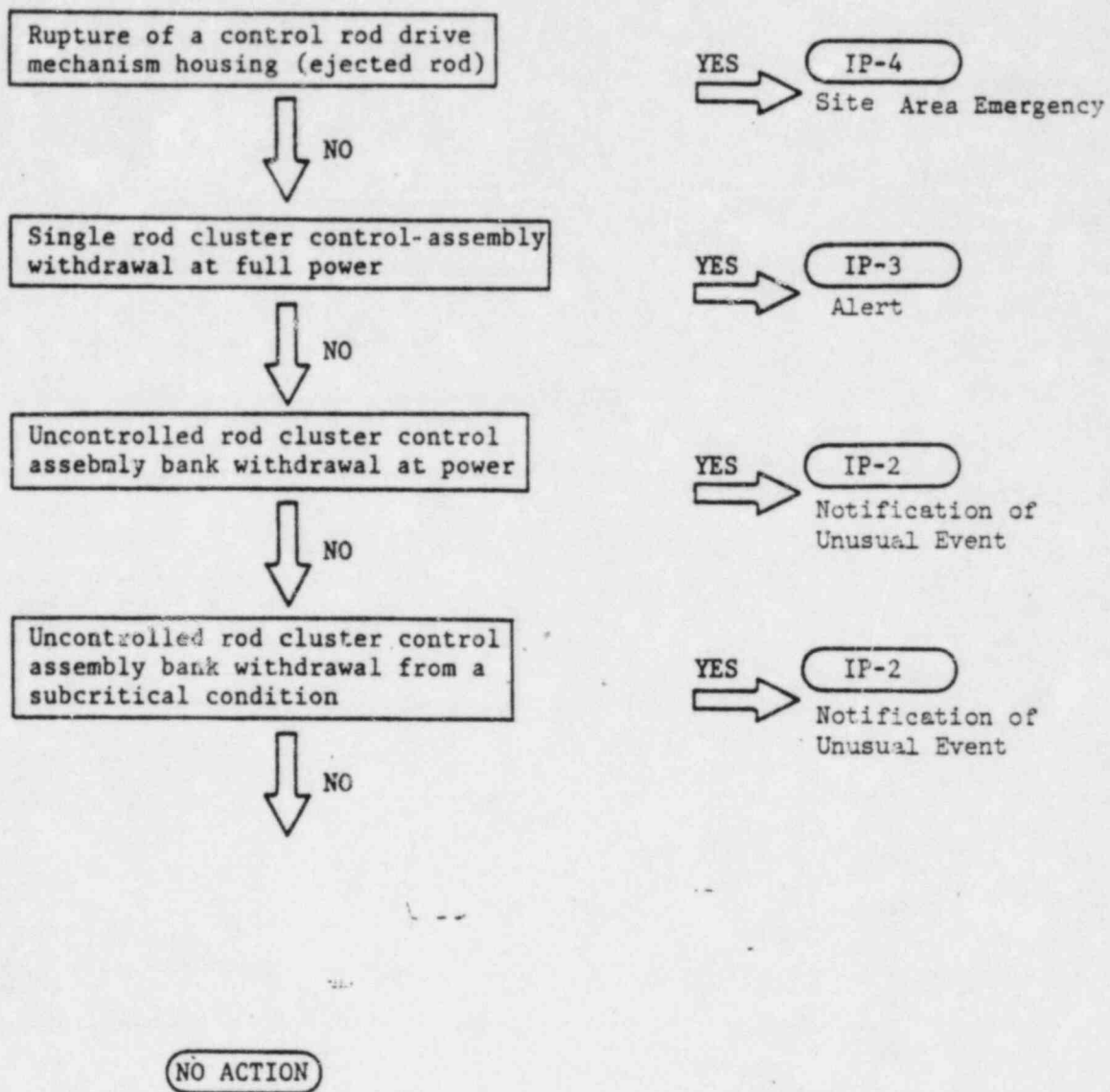
YES → IP-2
Notification of Unusual Event

NO
↓
NO ACTION 34

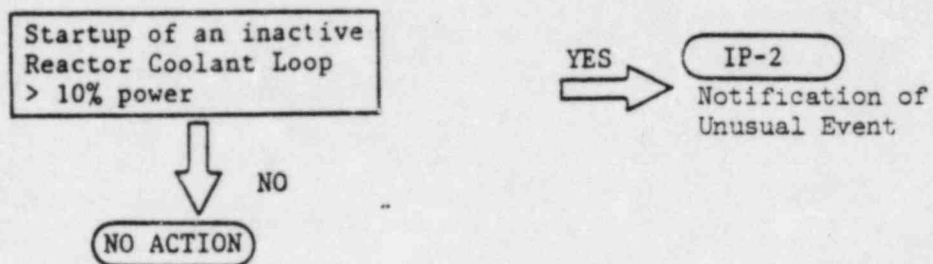
SAFETY LIMITS



REACTOR CONTROL ROD PROBLEMS



INACTIVE REACTOR COOLANT LOOP



BORON DILUTION

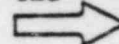
Uncontrolled Boron Dilution



NO

NO ACTION

YES



IP-2

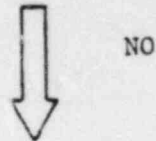
Notification of
Unusual Event

FEEDWATER
(NORMAL AND AUXILIARY)

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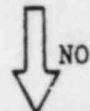
Transient initiated by loss of feedwater and condensate systems (principal heat removal system) followed by failure of emergency feedwater system for extended period

YES → IP-5
General Emergency



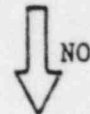
Major rupture of a main feedwater pipe

YES → IP-3
Alert



Excessive heat removal due to feedwater system malfunctions

YES → IP-2
Notification of Unusual Event



NO ACTION

WASTE GAS DECAY TANKS

Waste Gas Decay Tank Rupture

YES → IP-4
Site Area Emergency



NO

NO ACTION

Sequoyah Nuclear Plant

SQN REP - IMPLEMENTING PROCEDURES DOCUMENT

SQN, IP-3

ALERT

Prepared By: J.R. Walker

Revised By: R.J. Kitts

Submitted By: R.J. Kitts
Supervisor

PORC Review: 12/29/82
Date

Approved By: [Signature]
Pwr Plt Superintendent

Date Approved: 12/29/82

DISTRIBUTION

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<u>1C</u>	EP&P - Eric Sliger - 1470 CST2-C

<u>Rev. No.</u>	<u>Date</u>	<u>Revised Pages</u>	<u>Rev. No.</u>	<u>Date</u>	<u>Revised Pages</u>
<u>0</u>	<u>8/5/80</u>	<u>All</u>	<u>4</u>	<u>10/26/82</u>	<u>2</u>
<u>1</u>	<u>10/10/80</u>	<u>2</u>	<u>5</u>	<u>12-29-82</u>	<u>All</u>
<u>2</u>	<u>12/2/81</u>	<u>1</u>			
<u>3</u>	<u>3/11/82</u>	<u>1</u>			

The last page of this instruction is Number 2.

ALERT

1.0 PURPOSE

- 1.1 To provide a method for timely notification of appropriate individuals when the Shift Engineer has determined by IP-1 that an incident has occurred which is classified as an ALERT.
- 1.2 To provide a method for periodic reanalysis of the current situation by the Site Emergency Director to determine whether the Alert action should be canceled, continued, upgraded, or downgraded to another classification.

2.0 INSTRUCTION

- 2.1 Upon determining that existing conditions are classified as an Alert according to IP-1, the Shift Engineer will:

(Initials)

- _____ 1. Evaluate plant conditions and, if conditions warrant, activate emergency sirens for personnel assembly and initiate IP-8, 9, 14 and 20 if needed.
- _____ 2. Notify the Operations Duty Specialist direct by Dimension telephone number 7-200 or alternate Chattanooga number 8-0200 and state the following:
 - a. Your name
 - b. Sequoyah Nuclear Plant
 - c. Alert
 - d. Time of incident
 - e. Brief description of incident
 - f. Plant condition (whether stable or deteriorating)
 - g. Unusual release of radioactivity (Yes or NO)
 - h. Direction wind is coming from _____ and speed _____
 - i. Recommend initial protective actions for the public:

(None)

- _____ 3. Notify the Plant Duty Supervisor and provide the same information given to Operations Duty Specialist (see duty list for telephone numbers).
- _____ 4. Notify the Health Physics Laboratory.
- _____ 5. Initiate IP-6 - The Shift Engineer's clerk will contact one individual in each section of the call list (in IP-6) during off hours or any hour when an ALERT condition is declared without initiation of the emergency evacuation alarm.

2.2 The Site Emergency Director will:

- _____ 1. If there is an indication that any personnel are injured, initiate IP-10, Medical.
- _____ 2. If there is an indication of a security threat, initiate IP-11.
- _____ 3. Initiate IP-7 (Activation of the Operations Support Center).
- _____ 4. Notify the NRC by ring-down phone of plan activation in accordance with AI-18, File package 18.
- _____ 5. At least every two hours or more frequently if conditions warrant, reevaluate the event using IP-1.
 - a. If the situation no longer exists or should be downgraded, cancel or downgrade the Alert by informing the Operations Duty Specialist and the Plant Duty Supervisor.
 - b. If the condition warrants upgrading to a higher classification, initiate the appropriate steps in the procedure (IP-4 or IP-5) for the more serious conditions.
- _____ 6. If a significant radiation release has occurred in containment as indicated by containment monitor(s) evaluate the need to implement TI-30 to determine the amount of Radioactivity being released through normal plant release points.

Sequoyah Nuclear Plant

SQN REP - IMPLEMENTING PROCEDURES DOCUMENT

SQN, IP-4

SITE AREA EMERGENCY

Prepared By: J.R. Walker

Revised By: R.J. Kitts

Submitted By: R.J. Kitts
Supervisor

PORC Review: 12/29/82
Date

Approved By: [Signature]
Pwr Plt Superintendent

Date Approved: 12/29/82

DISTRIBUTION

1C	81 Plant Master File
1C	83 Asst. Power Plant Supt. (Oper.)
1C	84 Asst. Power Plant Supt. (Maint.)
1C	86 Maintenance Supervisor (M)
1C	87 Maintenance Supervisor (E)
1C	88 Maintenance Supervisor (I)
1C	89 Results Supervisor
1C	90 Operations Supervisor
1C	92 Health Physics Supervisor
1C	93 Public Safety Services Supv.
1C	95 Outage Director
1C	96 Emergency Cabinet Control Room
1C	97 Emergency Cabinet Communications Room
1C	98 Emergency Van
1C	102 Shift Engineer's Office
1C	103 Unit Control Room
1C	105 Health Physics Laboratory
1C	106 Medical Office
1C	107 Resident NRC Inspector - SNP
1C	108 Technical Support Center
1C	109 Assistant HP Supervisor
1C	110 Plant Duty Supervisor
1C	111 Asst. Power Plant Supt. (H&S)
1C	EP&P - Eric Sliger, 1470 CST2-C

<u>Rev. No.</u>	<u>Date</u>	<u>Revised Pages</u>	<u>Rev. No.</u>	<u>Date</u>	<u>Revised Pages</u>
<u>0</u>	<u>8/5/80</u>	<u>All</u>	<u>4</u>	<u>10/26/82</u>	<u>2</u>
<u>1</u>	<u>10/28/80</u>	<u>2</u>	<u>5</u>	<u>12-29-82</u>	<u>All, Title Change</u>
<u>2</u>	<u>12/2/81</u>	<u>1</u>			
<u>3</u>	<u>03/11/82</u>	<u>1</u>			

The last page of this instruction is Number 2.

SITE AREA EMERGENCY

1.0 PURPOSE

- 1.1 To provide a method for timely notification of appropriate individuals when the Shift Engineer has determined by IP-1 that an incident has occurred which is classified as a Site Area Emergency.
- 1.2 To provide a method for periodic reanalysis of the current situation by the Site Emergency Director to determine whether the Site Area Emergency action should be canceled, continued, upgraded, or downgraded to another classification

2.0 INSTRUCTIONS

- 2.1 Upon determining that existing conditions are classified as a Site Area Emergency according to IP-1, the shift engineer will:

(Initials)

- _____ 1. Activate emergency sirens for personnel assembly and initiate IP-8 and IP-9.
- _____ 2. If conditions warrant, initiate IP-14 (Health Physics Procedures), IP-20 (Environmental Monitoring during a radiological emergency).
- _____ 3. Notify the Operations Duty Specialist direct by Dimension telephone number 7-200 or alternate Chattanooga number 8-0200 and state the following:
 - a. Your name
 - b. Sequoyah Nuclear Plant
 - c. Site Area Emergency
 - d. Time of incident
 - e. Brief description of incident
 - f. Plant condition (whether stable or deteriorating)
 - g. Unusual release of radioactivity (Yes or No)
 - h. Direction wind is coming from _____ and speed _____
 - i. Recommend initial protective actions for the public:
(None)

(Initials)

- _____ 4. Notify the health physics laboratory.
- _____ 5. Notify the Plant Duty Supervisor and provide the same information given to Operations Duty Specialist (see duty list for telephone number).
- _____ 6. During off shifts the Shift Engineer Clerk will contact one individual in each section of the call list in IP-6.

2.2 The Site Emergency Director shall:

- _____ 1. If there is an indication that any personnel are injured, initiate IP-10, Medical.
- _____ 2. If there is an indication of a security threat, initiate IP-11.
- _____ 3. Initiate IP-7 (activation of the operation support center).
- _____ 4. Notify the NRC by ring-down phone of plan activation in accordance with AI-18, File Package 18.
- _____ 5. At least every two hours or more frequently if conditions warrant, reevaluate the event using IP-1.
 - a. If the situation no longer exists or should be down-graded downgrade the Site Area Emergency by informing the Operations Duty Specialist and the Plant Duty Supervisor.
 - b. If the condition warrants upgrading to a higher classification, initiate IP-5 for the more serious condition.
- _____ 6. If a significant radiation release has occurred in containment as indicated by containment monitor(s) evaluate the need to implement TI-30 to determine the amount of Radioactivity being released through normal plant release points.

Sequoyah Nuclear Plant

SQN REP - IMPLEMENTING
PROCEDURES DOCUMENT

SQN, IP-5

GENERAL EMERGENCY

Prepared By: J.R. Walker

Revised By: R.J. Kitts

Submitted By: R.J. Kitts
Supervisor

PORC Review: 12/29/82
Date

Approved By: [Signature]
Pwr Plt Superintendent

Date Approved: 12/29/82

DISTRIBUTION

1C	81 Plant Master File
1C	83 Asst. Power Plant Supt. (Oper.)
1C	84 Asst. Power Plant Supt. (Maint.)
1C	36 Maintenance Supervisor (M)
1C	37 Maintenance Supervisor (E)
1C	88 Maintenance Supervisor (I)
1C	89 Results Supervisor
1C	90 Operations Supervisor
1C	92 Health Physics Director
1C	93 Public Safety Services Supv.
1C	95 Outage Director
1C	96 Emergency Cabinet Control Room
1C	97 Emergency Cabinet Communications Room
1C	98 Emergency Van
1C	102 Shift Engineer's Office
1C	103 Unit Control Room
1C	105 Health Physics Laboratory
1C	106 Medical Office
1C	107 Resident NRC Inspector - SNP
1C	108 Technical Support Center
1C	109 Assistant HP Supervisor
1C	110 Plant Duty Supervisor
1C	111 Asst. Power Plant Supt. (H&S)
1C	EP&P - Eric Sliger, 1470 CST2-C

<u>Rev. No.</u>	<u>Date</u>	<u>Revised Pages</u>	<u>Rev. No.</u>	<u>Date</u>	<u>Revised Pages</u>
<u>0</u>	<u>8/5/80</u>	<u>All</u>	<u>4</u>	<u>10/26/82</u>	<u>2</u>
<u>1</u>	<u>10/21/80</u>	<u>2</u>	<u>5</u>	<u>12-29-82</u>	<u>All</u>
<u>2</u>	<u>12/2/81</u>	<u>1</u>			
<u>3</u>	<u>3/11/82</u>	<u>1</u>			

The last page of this instruction is Number 2.

GENERAL EMERGENCY

1.0 PURPOSE

- 1.1 To provide a method for timely notification of appropriate individuals when the shift engineer has determined by IP-1 that an incident has occurred which is classified as a General Emergency.
- 1.2 To provide a method for periodic reanalysis of the current situation by the Site Emergency Director to determine whether the General Emergency action should be canceled, continued, upgraded, or downgraded to another classification.

2.0 INSTRUCTIONS

- 2.1 Upon determining that existing conditions are classified as a General Emergency according to IP-1, the shift engineer will:

(Initials)

- _____ 1. Activate emergency sirens for personnel assembly and initiate IP-8 and IP-9.
- _____ 2. If conditions warrant, initiate IP-14 (Heath Physics Procedures), IP-20, (environmental monitoring during radiological emergency).
- _____ 3. Notify the Operations Duty Specialist direct by dimension telephone number 7-200 or alternate Chattanooga number 8-0200 and state the following:
 - a. Your name
 - b. Sequoyah Nuclear Plant
 - c. General Emergency
 - d. Time of incident
 - e. Brief description of incident.
 - f. Plant condition (whether stable or deteriorating)
 - g. Unusual release of radioactivity (Yes or No)
 - h. Direction wind is coming from _____ and speed _____

i. Recommended initial protective actions for the public:

(Activate the warning system and advise the public to take shelter, tune radio or TV to a local station, and await further instructions).

(Initials)

- _____ 3. Notify the health physics laboratory.
- _____ 4. Notify Plant Duty Supervisor and provide the same information given to Operations Duty Specialist (see duty list for telephone number).
- _____ 5. During off shifts the Shift Engineer Clerk will contact one individual in each section of the call list in IP-6.

2.2 The Site Emergency Director shall:

- _____ 1. If there is an indication that any personnel are injured, initiate IP-10 (Medical).
- _____ 2. Initiate IP-11.
- _____ 3. Initiate IP-7 (Activation of the Operations Support Center).
- _____ 4. Notify the NRC by ring-down phone of plan activation in accordance with AI-18, File Package 18.
- _____ 5. At least every two hours or more frequently if conditions warrant, reevaluate the event using IP-1.

If the situation no longer exists or should be downgraded, cancel or downgrade the General Emergency by informing the Operations Duty Specialist and the Plant Duty Supervisor.

- _____ 6. If a significant radiation release has occurred in containment, as indicated by containment monitor(s), evaluate the need to implement TI-30 to determine the amount of Radioactivity being released through normal plant release points.

REVISION LOG SHEET

Revision Date: PORC January 11, 1983 (issued 2/3/83)

This log sheet must be retained as the last page of the Sequoyah Implementing Procedures Document.

Inserted by: _____

Date Inserted: _____

Pages to be Removed			New Pages to be Inserted		
Part	Page Number	Revision	Part	Page Number	Revision
Table of Contents	1 of 1	01/06/83	Table of Contents	1 of 1	01/12/83
IP-18	Cover Page	Rev. 3	IP-18	Cover Page	Rev. 4
(Remove pages 1 through 53)					

SQNP
SQN-IPD
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SQN-IP-1	4	Emergency Plan Classification Logic
SQN-IP-2	3	Notification of Unusual Event
SQN-IP-3	5	Alert
SQN-IP-4	5	Site Emergency
SQN-IP-5	5	Emergency - General Emergency
SQN-IP-6	4	Activation of the Technical Support Center
SQN-IP-7	1	Activation of the Operations Support Center
SQN-IP-8	6	Personnel Accountability and Evacuation
SQN-IP-9	0	Accountability and Evacuation of the Power Operation Training Center
SQN-IP-10	6	Medical Emergency Procedure
SQN-IP-11	3	Security and Access Control
SQN-IP-13	4	Call Lists
SQN-IP-14	8	Health Physics Procedure
SQN-IP-15	1	Emergency Exposure Guidelines
SQN-IP-16	0	Recovery Procedure
SQN-IP-17	6	Emergency Equipment and Supplies
* SQN-IP-18	4	Plant Release Rate Calculations
SQN-IP-19	0	Radiological Emergency Plan Training
SQN-IP-20	1	Environmental Monitoring During A Radiological Emergency

Revised 01/11/83

Sequoyah Nuclear Plant
Cover Page 1

SNQ REP - IMPLEMENTING
PROCEDURES DOCUMENT

SNQ, IP-18

PIANT RELEASE RATE
CALCULATIONS

Prepared By: Walter Zabel

Revised By: R. J. Kitts

Submitted By: R. J. Kitts
Supervisor *gkcp*

PORC Review: 1-11-83
Date

Approved By: *[Signature]*
Pwr Plt Superintendent

Date Approved: 1-11-83

DISTRIBUTION

1C	81 Plant Master File
1C	83 Asst Pwr Plant Supt., (Oper.)
1C	84 Asst Pwr Plant Supt., (Maint.)
1C	86 Maintenance Supervisor (M)
1C	87 Maintenance Supervisor (E)
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1C	92 Health Physics Supervisor
1C	93 Public Safety Services Supv.
1C	95 Outage Director
1C	96 Emergency Cabinet Control Room
1C	97 Emergency Cabinet Communications Room
1C	98 Emergency Cabinet Gatehouse
1C	102 Shift Engineer's Office
1C	103 Unit Control Room
1C	105 Health Physics Laboratory
1C	106 Medical Office
1C	107 Resident NRC Inspector - SNP
1C	108 Technical Support Center
1C	109 Assistant HP Supervisor
1C	110 Plant Duty Supervisor
1C	111 Asst. Plant Supt. (H&S)
1C	1C EP&P - Eric Sliger, 1470 CST2-C

The current revision level of this instruction is: 4.

Reason for current revision (include all temporary change numbers) Canceled
entire instruction because Knoxville Emergency Center (KEC) has the respons-
ibility to perform calculations required in SNQ-IP-18.

The last page of this instruction is number .

SQN REF - IMPLEMENTING PROCEDURES DOCUMENT
SQN, IP-18

[illegible]

REVISION LOG SHEET

Revision Date: PORC January 6, 1983 (issued 2/2/83)

This log sheet must be retained as the last page of the Sequoyah Implementing Procedures Document.

Inserted by: _____

Date Inserted: _____

Pages to be Removed			New Pages to be Inserted		
Part	Page Number	Revision	Part	Page Number	Revision
Table of Contents	1 of 1	12/21/82	Table of Contents	1 of 1	01/06/83
IP-17	Cover Page	Rev. 5	IP-17	Cover Page	Rev. 6
	1 of 3	Rev. 1		1 of 3	Rev. 6
	2 of 3	Rev. 1		2 of 3	Rev. 6
	3 of 3	Rev. 1		3 of 3	Rev. 6
Att. 3	1 of 2	Rev. 5	Att. 3	1 of 2	Rev. 5
	2 of 2	Rev. 5		2 of 2	Rev. 6
Att. 4	1 of 1	Rev. 4	Att. 4	1 of 1	Rev. 6
Att. 5	1 of 2	Rev. 5	Att. 5	1 of 2	Rev. 6
	2 of 2	Rev. 2		2 of 2	Rev. 2
Att. 6	1 of 1	Rev. 5	Att. 6	1 of 1	Rev. 6
Att. 9	1 of 2	Rev. 5	Att. 9	1 of 2	Rev. 6
	2 of 2	Rev. 2		2 of 2	Rev. 6

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SQN-IP-1	4	Emergency Plan Classification Logic
SQN-IP-2	3	Notification of Unusual Event
SQN-IP-3	5	Alert
SQN-IP-4	5	Site Emergency
SQN-IP-5	5	Emergency - General Emergency
SQN-IP-6	4	Activation of the Technical Support Center
SQN-IP-7	1	Activation of the Operations Support Center
SQN-IP-8	6	Personnel Accountability and Evacuation
SQN-IP-9	0	Accountability and Evacuation of the Power Operation Training Center
SQN-IP-10	6	Medical Emergency Procedure
SQN-IP-11	3	Security and Access Control
SQN-IP-13	4	Call Lists
SQN-IP-14	8	Health Physics Procedure
SQN-IP-15	1	Emergency Exposure Guidelines
SQN-IP-16	0	Recovery Procedure
* SQN-IP-17	6	Emergency Equipment and Supplies
SQN-IP-18	3	Plant Release Rate Calculations
SQN-IP-19	0	Radiological Emergency Plan Training
SQN-IP-20	1	Environmental Monitoring During A Radiological Emergency

Revised 01/06/83

Sequoyah Nuclear Plant

DISTRIBUTION

SQN REP - IMPLEMENTING
PROCEDURES DOCUMENT

SQN, IP-17

EMERGENCY EQUIPMENT AND SUPPLIES

Prepared By: R. J. Prince

Revised By: Jerry D. Osborne

Submitted By: R. J. Kitts
Supervisor

PORC Review: 1-6-83
Date

Approved By: [Signature]
Pwr Plt Superintendent

Date Approved: 1-6-83

1C 81 Plant Master File
1C 83 Asst. Power Plant Supt. (Oper.)
1C 84 Asst. Power Plant Supt. (Maint.)
1C 86 Maintenance Supervisor (M)
1C 87 Maintenance Supervisor (E)
1C 88 Maintenance Supervisor (I)
1C 89 Results Supervisor
1C 90 Operations Supervisor
1C 92 Health Physics Supervisor
1C 93 Public Safety Services Supv.
1C 95 Outage Director
1C 96 Emergency Cabinet Control Room
1C 97 Emergency Cabinet Communications Room
1C 98 Emergency Van
~~1C 100 Emergency Cabinet Meteorological Bld.~~
1C 102 Shift Engineer's Office
1C 103 Unit Control Room
1C 105 Health Physics Laboratory
1C 106 Medical Office
1C 107 Resident NRC Inspector - SNP
1C 108 Technical Support Center
1C 109 Assistant HP Supervisor
1C 110 Plant Duty Supervisor
1C 111 Asst. Power Plant Supt. (H&S)
~~1C 112 Eric Sliger, 1470 CST2-C~~
EPT

Rev. No.	Date	Revised Pages	Rev. No.	Date	Revised Pages
0	8/5/80	ALL	4	10/28/81	10
1	9/17/80	1-9,11,17,20, Add 11A,17A,21	5	3/22/82	Revise 4,5,6,8,9, 11,13,16,17,19,20
2	2/11/81	Delete 11A,17A, Revise 12,18	6	1-6-83	Revise 1,2,3,4,10,11, 13,17,&18, Delete 21
3	7/30/81	Revise 21			

The last page of this instruction is Number 20

EMERGENCY EQUIPMENT AND SUPPLIES

1.0 SCOPE

This instruction is used to comply with the requirements of the Radiological Emergency Plan for periodic inspection and maintenance of equipment and supplies.

The emergency equipment, listed in attachments 1, 2, 3, and 5, is stored in cabinets provided with a plastic seal. These seals provide a means of determining that the cabinet has not been opened. An inventory list of the equipment is posted on the outside and inside of the cabinet. The four cabinets are located in: (1) Main Control Room Corridor, (2) Communications Room, (3) Gatehouse, and (4) Meteorological Tower Building.

Equipment and supplies listed in attachment 11 are stored in the technical support center and are available for use during an emergency.

The Stokes splint stretchers are located adjacent to the cabinets.

The emergency equipment, listed in attachment 9, is located in the health physics emergency van. In the event of a radiological emergency that requires the emergency van to be used, a health physics technician will obtain the additional equipment listed in Attachment 1 of IP-20. This equipment will be placed in the emergency kit provided and transported to the van.

The emergency room supplies furnished by TVA for use at the Erlanger Medical Center in case of injury to personnel involving radioactive materials are listed in attachment 10.

The radiation monitoring instruments, which are in normal plant use, are located in the health physics laboratory as listed in attachment 4. The self-contained respiratory devices are located as follows: Gatehouse, Health Physics Laboratory, and Turbine Building, Elevation 685, near freight lift, (Attachment 6).

Eight (8) additional self contained breathing units (with an additional one-hour's reserve air capacity for each unit) are permanently stored in the control room area for employees who must continuously man the control room. These self-contained breathing units shall be labeled "For Control Room Use Only".

2.0 RESPONSIBILITIES

2.1 The plant nurse shall be responsible for inventory and inspection of emergency medical supplies located in the medical treatment area, as listed in attachment 7. The completed inventory sheet will be returned to the health physics supervisor.

- 2.2 The individuals performing the inspection shall complete the data sheets and the health physics supervisor shall review the results and make arrangements to correct deficiencies, and file the data sheets in the health physics files.

3.0 FREQUENCY

- 3.1 Each cabinet and storage location, including the medical treatment area, shall be inventoried and required equipment inspected and checked for operation and/or condition. The equipment listed in attachments 1, 2, 3, 5, 9 and 11 have been separated into two categories. Table A is a listing of all non-perishable items stored in a small metal box within the cabinet itself. This metal box is equipped with a security seal. These items will be inventoried annually. Additionally these items will be inventoried whenever a security seal has been found to be violated. Those items listed in Table B of these attachments are inventoried on a quarterly basis. This inventory is performed within the last two weeks of each calendar quarter.
- 3.2 The portable radiation monitoring instruments shall be inventoried and calibrated on a routine basis per RCI-5, "Calibration of Health Physics Instruments".
- * 3.3 All self-contained breathing units in service shall be inventoried and inspected monthly by the health physics section. This inspection is performed per RCI-4, "Respiratory Protection Program".

4.0 PROCEDURES

- 4.1 Each cabinet shall be inventoried against the list of required items.
- 4.1.1 List any items missing and the disposition on the data sheet.
- 4.1.2 Deficient items shall be replaced.
- 4.2 Special checks of certain material in the cabinets shall be performed. The following checks shall be made where applicable:
- 4.2.1 The copies of the TVA-REP and REP Implementing Procedures Document shall be checked to determine that all revisions have been inserted properly.
- 4.2.2 The self-contained breathing units shall be checked per RCI-4, "Respiratory Protection Program".
- 4.2.3 The protective clothing shall be checked for deterioration.
- 4.2.4 The smoke tubes and aspirator bulbs shall be checked for deterioration and that the tubes have not been broken or used.
- 4.2.5 Replace all batteries with fresh batteries drawn from Power Stores. (Do not discard batteries. Return them to the tool room).

- 4.2.6 Check to determine that flashlights are operable.
- 4.2.7 Check first-aid kits to confirm they are stocked to current TVA specifications.
- 4.2.8 Rezero all emergency dosimeters to assure proper operation.

**

4.3 Completion of Inventory Forms

- 4.3.1 If the particular items are present and in sufficient quantities and, when applicable, in good working condition, then check the yes column.
- 4.3.2 If a deficiency is noted, then check the no column.
- 4.3.3 Under the remarks column explain the corrective actions taken.

NOTE: All comments in the remarks column should be detailed enough to leave no doubt as to the actions taken. Comments to the effect - "batteries missing" will not suffice. A simple check in the no column will represent that a deficiency exists. Such comments do not allow a person to determine what, if any, action has been taken and will only lead to confusion. Comments should read for example: Batteries replaced on March 25, 1980.

All deficiencies must be corrected as soon as possible. If circumstances do not allow deficiencies to be corrected then the shift supervisor shall be notified.

ATTACHMENT 3
EMERGENCY EQUIPMENT

Location: Gatehouse Cabinet

The following equipment is stored in the Gatehouse.

TABLE A

<u>Quantity</u>	<u>Description</u>	<u>Yes</u>	<u>No.</u>	<u>Remarks</u>
12	Pencils	—	—	—
10	Gloves (rubber)	—	—	—
10	Gloves (canvas)	—	—	—
10	Rubber overshoes	—	—	—
1	Box air filters	—	—	—
2	Extension cords - 100 volts, 3-prong	—	—	—
1	Roll radiation zone tape	—	—	—
3	Urine kits	—	—	—
20	Radiation and contamination zone tags	—	—	—
2	Rolls masking tape	—	—	—
* 2	Doz. plastic bags	—	—	—
1 Pkg	Paper towels	—	—	—
1 Pkg ea.	Emergency forms, TVA 17095, 17096, 17093, 17126, 17106, 17130	—	—	—
3	Grease pencils	—	—	—
2	Pair scissors	—	—	—
2	Pocket knives	—	—	—
2	Boxes smoke tubes	—	—	—
2	Aspirator bulbs	—	—	—
1	Log book	—	—	—
* 3	Boxes of smears	—	—	—
* with holders		—	—	—
1 ea.	Screwdriver, slotted and Phillips	—	—	—
1 ea.	Pliers, regular and long nose	—	—	—
10 ea.	Fifteen minute-red highway flares	—	—	—
1 ea.	10" adjustable wrench	—	—	—
1 ea.	18" adjustable wrench	—	—	—
1 ea.	Wire cutters (side cutter pliers)	—	—	—
1 ea.	Hammer (carpenters)	—	—	—
1 ea.	Hatchet	—	—	—

SQNP
 REP-IPD
 SQN, IP-17
 Page 2 of 2
 Rev. 6
 ATTACHMENT 3
EMERGENCY EQUIPMENT
TABLE A

<u>Quantity</u>	<u>Description</u>	<u>Yes</u>	<u>No</u>	<u>Remarks</u>
1 ea.	12" pipe wrench	—	—	—
1	Assorted nails	—	—	—
1	Black iron wire - roll	—	—	—
2	Electrical tape - roll	—	—	—
1	Hacksaw	—	—	—
1	Map of area surrounding the plant	—	—	—

Security seal intact (Yes or No): _____

TABLE B

<u>Quantity</u>	<u>Description</u>	<u>Yes</u>	<u>No</u>	<u>Remarks</u>
1	Copies of TVA-REP and REP Implementing Procedures Document	—	—	—
1	First-aid kit	—	—	—
3	MSA 401 self-contained breathing apparatus	—	—	—
3	air bottles	—	—	—
20	Coveralls	—	—	—
10	Hoods	—	—	—
5	Emergency dosimeters and charger, with spare batteries	—	—	—
1	High volume air sampler	—	—	—
2	Flashlights w/batteries	—	—	—
3	Fullface respirators with cartridges	—	—	—
1	Roll radiation rope	—	—	—
1 ea.	Shovel	—	—	—
1 ea.	8# sledge hammer	—	—	—
1	Rope - 100' long	—	—	—
2	One-gallon polyethylene bottles for drinking water	—	—	—
★ 1	Stretcher, stokes splint	—	—	—
1	Plant personnel roster	—	—	—

All equipment has been inventoried with deficiencies noted.

Inspection Performed By:

Health Physics Representative _____ Date _____

Review and Approval:

Health Physics Supervisor _____ Date _____

SQNP
REP-IPD
SQN, IP-17
Page 1 of 1
Rev. 6

ATTACHMENT 4

EMERGENCY EQUIPMENT

Date _____

Location: Health Physics Laboratory - Service Building

<u>Quantity</u>	<u>Description</u>	<u>Yes</u>	<u>No</u>	<u>Remarks</u>
1	Alpha Survey Meter (500,000 cpm)	___	___	_____
1	Neutron dose rate survey meter (.025 eV - 10 MeV) (5,000 mR/hr)	___	___	_____
* 1	Teletector (1,000 R/hr with 13-foot extendible probe)	___	___	_____
4	Cutie Pie (10 R/hr)	___	___	_____
1	Cutie Pie, high range (100 R/hr)	___	___	_____
1	Cutie Pie (2.5 R/hr)	___	___	_____
1	High Volume Air Sampler	___	___	_____
4	RM-14 Survey Meters (0-50,000 cpm)	___	___	_____
1	Low-volume air sampler	___	___	_____

Inspection Performed By:

Health Physics Representative _____ Date _____

Review and Approval:

Health Physics Supervisor _____ Date _____

ATTACHMENT 5
EMERGENCY EQUIPMENT

Location: Meteorological Building

The following equipment is stored in the meteorological building adjacent to the tower.

TABLE A

<u>Quantity</u>	<u>Description</u>	<u>Yes</u>	<u>No</u>	<u>Remarks</u>
3	Clipboards with paper	___	___	_____
12	Pencils	___	___	_____
2	Boxes of Smears with holders	___	___	_____
1	Scissors	___	___	_____
25	Soil sample bags	___	___	_____
50	Paper bags	___	___	_____
50	Plastic bags	___	___	_____
1	Roll masking tape	___	___	_____
1	Roll of radiation and contamination tape	___	___	_____
20	Radiation and contamination tags	___	___	_____
3	Pairs gauntlet gloves	___	___	_____
5	Pairs short rubber gloves	___	___	_____
5	Canvas gloves	___	___	_____
5	Rubber overshoes	___	___	_____
1	Map of area surrounding the plant	___	___	_____

TABLE B

<u>Quantity</u>	<u>Description</u>	<u>Yes</u>	<u>No</u>	<u>Remarks</u>
*** 2	Flashlights with batteries	___	___	_____
3	Pairs hip boots	___	___	_____
20	Sample bottles	___	___	_____
* 1	First aid kit	___	___	_____
3	Full face masks	___	___	_____
6	Canisters	___	___	_____
5	Coveralls	___	___	_____
5	Hoods	___	___	_____
1	Roll radiation rope	___	___	_____
1	Plant personnel roster	___	___	_____
1	Dosimeter charger with batteries	___	___	_____
10	High range dosimeters (0-500 mrem)	___	___	_____

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ATTACHMENT 5
EMERGENCY EQUIPMENT

NOTE: 1. Functionally test generator
2. Replace dosimeter chgr batteries
3. Recharge dosimeters

All equipment has been inventoried and deficiencies noted.

Inspection Performed By:

Health Physics Representative _____ Date _____

Review and Approval:

Health Physics Supervisor _____ Date _____

* Comp Pg.

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Attachment 6

ADDITIONAL EQUIPMENT AVAILABLE FOR EMERGENCY USE

Equipment in addition to that included in Attachments 1 through 5 and 8 is not specifically designated as emergency equipment, but is available for use in case of an emergency.

The following tabulation lists the equipment, the location, and quantity:

<u>Quantity</u>	<u>Description</u>	<u>Location</u>
1	MSA-401 Self contained breathing apparatus	Health Physics Lab, Service Building
* 20 * *	MSA-401 Self contained breathing apparatus	Turbine Building, El. 685, near Freight Lift.

Inspection Performed By:

Health Physics Representative _____ Date _____

Review and Approval:

Health Physics Supervisor _____ Date _____

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ATTACHMENT 9
EMERGENCY EQUIPMENT

Location: Health Physics Emergency Vehicle - Van

The following equipment is stored in the health physics emergency van:

TABLE A				
<u>Quantity</u>	<u>Description</u>	<u>Yes</u>	<u>No</u>	<u>Remarks</u>
20	Radiation tags	—	—	—
20	Contamination tags	—	—	—
1 box	4" dia. air filters	—	—	—
1 box	2" dia. air filters	—	—	—
* 15	Charcoal cartridges (A,Z)	—	—	—
40	Radiological survey forms	—	—	—
14	Airborne radiation survey forms	—	—	—
7	Pencils	—	—	—
3	Grease pencils	—	—	—
2	Log Books	—	—	—
2	Masking tape - roll	—	—	—
1	Sample cutter	—	—	—
20	Plastic bags	—	—	—
1	Mini-Scaler cable	—	—	—
2 pr.	Rubber overshoes	—	—	—
2 pr.	Coveralls	—	—	—
* 6 pr.	Canvas gloves	—	—	—
1 box	Rubber gloves	—	—	—
1 pr.	Scissors	—	—	—
6 ft	Syphon hose	—	—	—
50	4" x 4" air filters for monitors	—	—	—
30	Charcoal filters for environmental monitors	—	—	—
1	Map of area surrounding plant	—	—	—
1	Plant boundary map	—	—	—
1 box	Saran wrap	—	—	—
* 1	HP 260 probe and cable	—	—	—

Security seal intact (Yes or No): _____

TABLE B				
<u>Quantity</u>	<u>Description</u>	<u>Yes</u>	<u>No</u>	<u>Remarks</u>
* 2	Radiation tape - rolls	—	—	—
* 500 each	Smears and holders	—	—	—
2	Flashlights w/batteries	—	—	—
30	Paper bags	—	—	—
* 15 each	Sample bottles & boxes	—	—	—
100 ft.	Extension cord	—	—	—
1	Trouble light	—	—	—
* 2	Self-contained breathing apparatus	—	—	—

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ATTACHMENT 9
EMERGENCY EQUIPMENT

TABLE B

<u>Quantity</u>	<u>Description</u>	<u>Yes</u>	<u>No</u>	<u>Remarks</u>
* 20	Plastic Planchets	—	—	—
2	Full face masks with canisters	—	—	—
1	Portable gasoline powered generato.	—	—	—
	Functional test generator	—	—	—
* 4	Respirator canisters			
* (part. charcoal)		—	—	—

Inspection Performed By:

Health Physics Representative _____ Date _____

Review and Approval:

Health Physics Supervisor _____ Date _____