

ID/2Q,2R

NOTIFICATION OF  
RESPONSIBLE AUTHORITIES

<u>310-0</u> Notification of Responsible Authorities	Rev. 11	03-07-83
<u>310-1</u> Initial Notification	Rev. 4	12-23-82
<u>310-T1</u> Guidance for Augmentation of the On-Site Emergency Organization within 30 Minutes	Rev. 5	05-26-82
<u>310-T2</u> State of Illinois Nuclear Accident Reporting System Form	Rev. 1	04-01-81
<u>310-T3</u> Prioritized Notification Listing	Rev. 6	03-07-83

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MAR 07 1983  
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PRIORITIZED NOTIFICATION LISTING

QEP 310-T3  
Revision 6  
February 1983

ID/5A

		TIME CONTACTED	EST. TRAVEL TIME
ON-CALL DUTY PERSON			
<u>Name</u>		<u>Home Phone</u>	
R. L. Bax			X
F. J. Geiger			
L. F. Gerner			
R. A. Robey			
G. F. Spedl			
T. K. Tamlyn			
G. C. Tietz			
STATION DIRECTOR			
<u>Name</u>	<u>Priority</u>	<u>Home Phone</u>	
N. J. Kalivianakis	1		
T. K. Tamlyn	2		
L. F. Gerner	3		
R. L. Bax	4		
OPERATIONS DIRECTOR			
<u>Name</u>	<u>Priority</u>	<u>Home Phone</u>	
T. K. Tamlyn	1		
R. A. Robey	2		
G. F. Spedl	3		
F. J. Geiger	4		

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			TIME CONTACTED	EST. TRAVEL TIME
TECHNICAL DIRECTOR				
<u>Name</u>	<u>Priority</u>	<u>Home Phone</u>		
G. C. Tietz	1			
J. H. Schnitzmeyer	2			
H. G. Lihou	3			
MAINTENANCE DIRECTOR				
<u>Name</u>	<u>Priority</u>	<u>Home Phone</u>		
G. R. Price	1			
D. G. Rajcevich	2			
D. G. Van Pelt	3			
*R. L. Bax	4			
STORES DIRECTOR				
<u>Name</u>	<u>Priority</u>	<u>Home Phone</u>		
L. G. Butterfield	1			
S. L. Simpson	2			
D. L. Noe	3			
ADMINISTRATIVE DIRECTOR				
<u>Name</u>	<u>Priority</u>	<u>Home Phone</u>		
D. M. O'Connor	1			
F. B. Faley	2			
Z. A. Rudy	3			

\*This person should be notified first, even though he is unable to be on-site within 30 minutes. Then, notify the Maintenance Director by priority to come to the site to augment the Station staff.

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MAR 07 1963

O.C.O.S.H

			TIME CONTACTED	EST. TRAVEL TIME
SECURITY DIRECTOR				
<u>Name</u>	<u>Priority</u>	<u>Home Phone</u>		
G. J. Toleski	1			
J. R. Wunderlich	2			
K. L. Leech	3			
RAD-CHEM DIRECTOR				
<u>Name</u>	<u>Priority</u>	<u>Home Phone</u>		
T. J. Kovach	1			
J. W. Piercy	2			
W. A. Bielasco	3			
ENVIRONS DIRECTOR				
<u>Name</u>	<u>Priority</u>	<u>Home Phone</u>		
R. L. Carson	1			
J. E. Sirovy	2			
M. A. Shilling	3			
MAINTENANCE CALLER				
(These personnel may be used to augment the Maintenance Director list above.)				
<u>Name</u>		<u>Home Phone</u>		
J. F. Fish				
J. J. Kopacz				
D. F. Thayer				
H. W. Wilson				

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			TIME CONTACTED	EST. TRAVEL TIME
<b>TECH STAFF CALLER</b> (These personnel may be used to augment the Technical Director list above.)				<del>                             EST. TRAVEL TIME                         </del>
<u>Name</u>		<u>Home Phone</u>		
D. G. Clark				
D. W. Jessen				
J. R. Wunderlich				
B. R. Strub				
<b>RAD-CHEM CALLER</b> (These personnel may be used to augment the Rad-Chem Director list above.)				<del>                             EST. TRAVEL TIME                         </del>
<u>Name</u>		<u>Home Phone</u>		
R. L. Moore				
J. W. Piercy				
A. G. Schabilion				
P. Skiermont				
R. D. Tank				
T. D. Bush				
M. S. Zinnen				
<b>ELECTRICAL MAINTENANCE CALL LIST</b>				
<u>Name</u>	<u>Priority</u>	<u>Home Phone</u>		
D. G. Van Pelt	1			
R. J. Vess	2			
B. J. Maze	3			
W. A. Krause	4			
D. L. Meyer	5			
H. W. Chrisman	6			
C. W. Elsasser	7			

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			TIME CONTACTED	EST. TRAVEL TIME
MECHANICAL MAINTENANCE CALL LIST				
<u>Name</u>	<u>Priority</u>	<u>Home Phone</u>		
G. R. Price	1			
D. F. Thayer	2			
F. D. Delk	3			
J. F. Fish	4			
H. W. Wilson	5			
J. J. Kopacz	6			
R. C. Schofield	7			
R. H. Tucker	8			
J. E. Koenes	9			
J. A. Weaver	10			
G. L. Hayes	11			
T. B. Pettit	12			
C. L. Edmondson	13			
K. E. Sondgeroth	14			
G. B. Hattan	15			
M. A. Jurgensen	16			
W. A. Pottenger	17			
J. E. Petryshyn	18			
D. F. Blaufuss	19			
INSTRUMENT MAINTENANCE CALL LIST				
<u>Name</u>	<u>Priority</u>	<u>Home Phone</u>		
D. G. Rajcevich	1			
L. E. Werntz	2			
R. P. Soenksen	3			
C. L. Richardson	4			
A. J. Schmidt	5			

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J. O. S. H.

			TIME CONTACTED	EST. TRAVEL TIME
RAD-CHEM CALL LIST				
<u>Name</u>	<u>Priority</u>	<u>Home Phone</u>		
L. P. Geerts	1			
P. M. O'Brien	2			
M. J. Hesse	3			
G. D. Rankin	4			
J. C. Rasso	5			
J. L. Woods	6			
M. E. Field	7			
S. D. Workman	8			
D. E. Bielema	9			
J. L. Frechette	10			
J. W. Rosenow	11			
A. P. O'Horo	12			
J. J. Daubard	13			
T. M. De May	14			
D. H. Frazier	15			
S. R. Weber	16			
R. L. Cadogan	17			
W. F. Schmidt	18			
D. C. Wright	19			
L. C. Williams	20			
J. R. King	21			
D. L. Heitzler	22			
K. D. Anderson	23			
C. R. Brown	24			
J. R. Dishman	25			
M. H. Curtis	26			

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MAR 07 1963

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TIME  
CONTACTEDEST.  
TRAVEL  
TIME

## TECH STAFF-NUCLEAR CALL LIST

<u>Name</u>	<u>Priority</u>	<u>Home Phone</u>
B. R. Strub	1	
M. L. Reed	2	
K. P. Donovan	3	
P. D. Knoespel	4	
J. P. Hoeller	5	

## TECH STAFF-MECHANICAL/ELECTRICAL CALL LIST

<u>Name</u>	<u>Priority</u>	<u>Home Phone</u>
D. G. Clark	1	
C. A. Hebel	2	
S. W. Reynolds	3	
J. B. Eagle	4	
D. B. Cook	5	
K. K. Medulan	6	
F. R. Kaepfel	7	
E. E. Mendenhall	8	
C. A. Iben	9	

TECH STAFF-SPECIAL PROJECTS CALL LIST  
(May be used to augment the M/E list above.)

<u>Name</u>	<u>Priority</u>	<u>Home Phone</u>
J. R. Wunderlich	1	
D. L. Wilgus	2	
D. W. Jessen	3	
E. B. Weinfurter	4	
R. D. Buss	5	
A. L. Misak	6	
G. T. Carney	7	
W. L. Leaverton	8	
R. K. Rustick	9	



			TIME CONTACTED	EST. TRAVEL TIME
G. E. SITE REPRESENTATIVE				
<u>Name</u>		<u>Home Phone</u>		
D. Brager				
RADWASTE CALL LIST				
<u>Name</u>	<u>Priority</u>	<u>Home Phone</u>		
J. W. Forrest	1			
R. N. Jackson	2			
L. G. Monroe	3			
G. W. Klone	4			
R. J. Thompson	5			
A. A. Griffiths	6			
R. L. Petri	7			
H. E. Gnoske	8			
M. J. Fecht	9			

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STATION PROCEDURE REVISION COVER SHEET

ID/LX

Revision Description This revision corrects a typographical error and an error made in converting a formula from Tech Specs. It also updates the procedure cross-reference list.

QEP  
Chapter

200-T2 Rev. 2  
200-T1  
Procedure

J. Scholtzmeier  
Originator

8  
Revision

This procedure is required to be implemented prior to April 1, 1983 because of upcoming GSEP drill.

DRAFT REVIEW

Tech. Staff Supervisor \_\_\_\_\_ Date \_\_\_\_\_  
Department Head \_\_\_\_\_ Date \_\_\_\_\_  
J. Scholtzmeier \_\_\_\_\_ 3-2-83  
Originator \_\_\_\_\_ Date \_\_\_\_\_

FINAL APPROVAL

Ronald Brown \_\_\_\_\_ 3-2-83  
Dept. Head \_\_\_\_\_ Date \_\_\_\_\_  
C. T. H. \_\_\_\_\_ 3/3/83  
Tech. Staff Supervisor \_\_\_\_\_ Date \_\_\_\_\_  
L. Turner \_\_\_\_\_ 3/4/83  
Asst. Supt. \_\_\_\_\_ Admin \_\_\_\_\_ Date \_\_\_\_\_

AUTHORIZATION

V. S. Verbeke \_\_\_\_\_ 3/7/83  
Station Superintendent \_\_\_\_\_ Effective Date \_\_\_\_\_

INSTRUCTIONS FOR REVISION INSERTION

REMOVE

QEP 200-0 Rev. 11  
QEP 200-T1 Rev. 7  
QEP 200-T2 Rev. 1

INSERT

QEP 200-0 Rev. 12  
QEP 200-T1 Rev. 8  
QEP 200-T2 Rev. 2

REVISION RECEIPT FORM

Please sign and date below, and return this sheet to the Officer Supervisor - Quad Cities Station. Your Station Procedure copy number is 40.

Signature \_\_\_\_\_

Date \_\_\_\_\_

INDEX, II

EMERGENCY COMMITIONS

<u>200-0</u> Emergency Conditions	Rev. 12	03-07-83
<u>200-1</u> Classification of GSEP Conditions	Rev. 3	05-05-82
<u>200-2</u> Classification of an Incident Involving Hazardous Materials	Rev. 2	01-22-82
<u>200-T1</u> Quad-Cities Emergency Action Levels	Rev. 3	03-07-83
<u>200-T2</u> Emergency Action Levels - Procedure Cross Reference	Rev. 2	03-07-83
<u>200-T3</u> Hazardous Substances	Rev. 2	10-29-82

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1D/2J

QUAD-CITIES EMERGENCY ACTION LEVELS

CONDITION	UNUSUAL EVENT	ALERT	SITE EMERGENCY	GENERAL EMERGENCY
Class Descrip. n	Events in progress or have occurred which indicate a potential degradation of the level of safety of the plant.	Events in progress or have occurred which involved an actual or potential substantial degradation of the level of safety of the plant.	Events in progress or have occurred which involved actual or likely major failures of plant functions needed for protection of the public.	Events in progress or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity.
1. Aircraft crash or missiles from whatever source.	Impacted on-site	(1) Impacted on-site and equipment described in the Technical Specifications is affected such that it is operated in a degraded mode permitted by a Limiting Condition for Operation.  (2) Turbine failure with casing penetration.	Impacted on-site and equipment described in the Technical Specifications is degraded such that an immediate shutdown is required.	
2. Control Room Evacuation		Evacuation is anticipated or required with control established from local stations.	Evacuation is required and control is not established from local stations within 15 minutes.	

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MAR 07 1983

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In addition to the Unusual Event, Alert, Site Emergency, and General Emergency, a Transportation Accident class exists. A Transportation Accident condition shall exist if any vehicle transporting radioactive materials or nonradioactive hazardous materials from a generating station is involved in a situation which could possibly breach or has breached the integrity of a shipping container(s).

QUAD-CITIES EMERGENCY ACTION LEVELS

QEP 206-T1  
Revision 8

CONDITION	UNUSUAL EVENT	ALERT	SITE EMERGENCY	GENERAL EMERGENCY
3. Earthquake had occurred or is being experienced	Earthquake felt in-plant or detected on Station seismic instrumentation.	Equipment described in the Technical Specifications is affected such that it is operated in a degraded mode permitted by a Limiting Condition for Operation.	Equipment described in the Technical Specifications is degraded such that an immediate shutdown is required.	
4. Unplanned explosion.		On-site <u>and</u> equipment described in the Technical Specifications is affected such that it is operated in a degraded mode permitted by a Limiting Condition for Operation.	On-site <u>and</u> equipment described in the Technical Specifications is degraded such that an immediate shutdown is required.	
5. Fire.	Requiring off-site assistance.	Equipment described in the Technical Specifications is affected such that it is operated in a degraded mode permitted by a Limiting Condition for Operation.	Equipment described in the Technical Specifications is degraded such that an immediate shutdown is required.	
6. Flood	Mississippi River level > 588 ft. MSL.	Mississippi River level > 589 ft. MSL.		

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QUAD-CITIES EMERGENCY ACTION LEVELS

CONDITION	UNUSUAL EVENT	ALERT	SITE EMERGENCY	GENERAL EMERGENCY
7. Security threat	Security threat (event) which also poses a radiological threat, or has the potential for substantial degradation of the level of physical security at the station. (See generic GSEP Section 9.3.2.)	An ongoing security threat (event) of increasing severity, or a different threat, which involves actual or potential substantial degradation of the level of safety of the station from either the radiological or physical security view point.	Security threat (event) involving an imminent loss of physical control of the facility.	Security threat (event) involving a loss of physical control of the facility.
8. Tornado or severe winds being experienced.	(1) Tornado near facility. (a) Control Room informed by Load Dispatcher or (b) Control Room informed by station personnel who have made visual sighting or (c) Shift Supervisor informed by Weather Alert, or (2) Sustained winds of >80 mph.	(1) Tornado strikes facility. (2) Sustained winds of > 95 mph.	(1) Sustained winds of > 110 mph <u>and</u> both units <u>not</u> in cold shutdown.	

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QUAD-CITIES EMERGENCY ACTION LEVELS

QEP 200-T1  
Revision 8

CONDITION	UNUSUAL EVENT	ALERT	SITE EMERGENCY	GENERAL EMERGENCY
9. Toxic or uncontrolled flammable gas (Chlorine, Ammonia, Methane, etc.)	Uncontrolled release of toxic or uncontrolled flammable gas at life threatening levels near or on-site.	Uncontrolled release of toxic or uncontrolled flammable gas at life threatening levels within the protected area.	Uncontrolled release of toxic or uncontrolled flammable gas at life threatening levels within the vital areas.	
10. Loss of AC power.	Loss of all off-site power or loss of all Diesel Generators.	Loss of all off-site power <u>and</u> loss of all diesel generators for < 15 minutes.	Loss of all off-site power <u>and</u> loss of all diesel generators for > 15 minutes.	
11. Loss of DC power.	DC power sources as described in the Technical Specifications are degraded such that a Limiting Condition for Operation requires a shutdown.	Loss of both 125 VDC and 250 VDC battery < 15 minutes.	Loss of both 125 VDC and 250 VDC battery systems > 15 minutes.	

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MAR 07 1983  
J.C.S.R.

QUAD-CITIES EMERGENCY ACTION LEVELS

QEP 200-T1  
Revision 8

<u>CONDITION</u>	<u>UNUSUAL EVENT</u>	<u>ALERT</u>	<u>SITE EMERGENCY</u>	<u>GENERAL EMERGENCY</u>
12. Plant Shutdown Functions.		(1) Loss of <u>all</u> systems capable of maintaining cold shutdown. (2) Failure of the Reactor Protection System Instrumentation to initiate and complete a SCRAM which brings the reactor subcritical once a limiting safety system setting, as specified in the Technical Specifications, has been exceeded. (ATWS)	(1) Loss of <u>all</u> systems capable of maintaining hot shutdown or (2) A transient requiring operation of ECCS with failure to SCRAM.	
13. Other conditions or systems required by Technical Specifications (such as ECCS, fire protection system, etc.)	(1) Equipment described in the Technical Specifications is degraded such that a Limiting Condition for Operation requires a shutdown. (2) Loss of communications or instrumentation such that accident assessment or off-site dose assessment cannot be made.	(1) Equipment described in the Technical Specifications is degraded beyond the Limiting Conditions for Operation (as specified that require a shutdown). (2) Technical Specification Safety Limit exceeded. (3) Unplanned loss of most or all annunciators on either panel 901-3 (902-3) or or 901-5 (902-5) for greater than 30 minutes.	Unplanned loss of most or all annunciators on either panel 901-3(902-3) or 901-5(902-5) for greater than 30 minutes, and a plant transient has initiated or is in progress.	

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MAR 07 1983

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QUAD-CITIES EMERGENCY ACTION LEVELS

QEP 200-T1  
Revision 8

<u>CONDITION</u>	<u>UNUSUAL EVENT</u>	<u>ALERT</u>	<u>SITE EMERGENCY</u>	<u>GENERAL EMERGENCY</u>
14. Loss of Primary Coolant	(1) ECCS Initiation (not spurious). (2) Failure of a Primary System Safety or Relief Valve to close. (3) Total leakage rate to primary containment is greater than 25 gpm.	(1) A $\geq$ 50 gpm leakage rate increase as indicated by surveillance. (2) A main steam line break outside containment with automatic isolation. (FSAR section 14.2.3)	(1) A $\geq$ 500 gpm leakage rate increase as indicated by surveillance. (2) A main steam line break outside containment without the capability of effecting isolation. (3) Circumferential break of a reactor coolant recirculation line. (LOCA; FSAR Section 14.2.4.)	Imminent core melt.
15. Fuel Handling Accident. (Fuel Handlers report damage to irradiated fuel assemblies and Refuel Floor ARM reads 100 mr/hr.)		Standby gas treatment system operational and secondary containment isolation effective or capable of being effected. (Refueling accident; FSAR Section 14.2.2)	Standby gas treatment system <u>not</u> operational or secondary containment isolation incapable of being effected.	

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MAR 07 1983  
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QUAD-CITIES EMERGENCY ACTION LEVELS

QEP 200-T1  
Revision 8

CONDITION	UNUSUAL EVENT	ALERT	SITE EMERGENCY	GENERAL EMERGENCY
16. Loss of fission product barriers.	Coolant activity sample $\geq 5$ $\mu\text{Ci}$ of I-131 dose equivalent per gram of water.	<p>A. <math>\geq 2 \times 10^2</math> R/hr primary containment activity, or</p> <p>B. Loss of 1 of the following 3 fission product barriers:</p> <p>(1) Cladding: grab sample <math>&gt; 300 \mu\text{Ci/cc}</math> equivalent of I-131. (Control Rod Drop Accident; FSAR Section 14.2.1)</p> <p>(2) Reactor coolant sys: <math>&gt; +2</math> psig drywell pressure &amp; <math>&lt; -59</math> inches vessel level.</p> <p>(3) Primary Containment:</p> <p>(a) <math>&gt; 56</math> psig containment pressure, or</p> <p>(b) <math>&gt; 281^\circ\text{F}</math> containment temperature.</p> <p>(c) Loss of primary containment integrity when required.</p>	<p>A. <math>\geq 4 \times 10^2</math> R/hr primary containment activity, or</p> <p>B. Loss of 2 of the following 3 fission product barriers:</p> <p>(1) Cladding: grab sample <math>&gt; 300 \mu\text{Ci/cc}</math> equivalent of I-131.</p> <p>(2) Reactor coolant sys: <math>&gt; +2</math> psig drywell pressure &amp; <math>&lt; -59</math> inches vessel level.</p> <p>(3) Primary Containment:</p> <p>(a) <math>&gt; 56</math> psig containment pressure, or</p> <p>(b) <math>&gt; 281^\circ\text{F}</math> containment temperature.</p> <p>(c) Loss of primary containment integrity when required.</p>	<p>A. <math>\geq 2 \times 10^3</math> R/hr primary containment activity, and imminent loss of primary containment, or</p> <p>B. Loss of 2 of the following 3 fission product barriers, with an imminent loss of the 3rd fission product barrier:</p> <p>(1) Cladding: grab sample <math>&gt; 300 \mu\text{Ci/cc}</math> equivalent of I-131.</p> <p>(2) Reactor coolant sys: <math>&gt; +2</math> psig drywell pressure &amp; <math>&lt; -59</math> inches vessel level.</p> <p>(3) Primary Containment:</p> <p>(a) <math>&gt; 56</math> psig containment pressure, or</p> <p>(b) <math>&gt; 281^\circ\text{F}</math> containment temperature.</p> <p>(c) Loss of primary containment integrity when required.</p>

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D.C. OSK

QUAD-CITIES EMERGENCY ACTION LEVELS

QEP 200-T1  
Revision 8

CONDITION	UNUSUAL EVENT	ALERT	SITE EMERGENCY	GENERAL EMERGENCY
17. Radio-activity Effluent release from the plant.	<p>A. Gaseous Effluents: Technical Specification instantaneous release limits exceeded as measured by effluent radiation monitoring and counting instrumentation.</p> <p>(1) Noble Gases -</p> <p>(a) Main Chimney: Unit 1 or Unit 2 (not both) Release rate <math>&gt; 2.1 \times 10^5 \mu\text{Ci/sec}</math> Ey</p> <p>Both Units 1 and 2 Release rate <math>&gt; 2.6 \times 10^5 \mu\text{Ci/sec}</math> Ey</p> <p>(b) Reactor Bldg Vent Stack: Release rate <math>&gt; 2.3 \times 10^4 \mu\text{Ci/sec}</math> 1.3Ey + E<math>\beta</math></p>	<p>A. Gaseous Effluents: Effluent release &gt; 10 times the Technical Specification instantaneous release limits as measured by radiation monitoring and counting instrumentation</p> <p>(1) Noble Gases -</p> <p>(a) Main Chimney: Unit 1 or Unit 2 (not both) Release rate <math>&gt; 21 \times 10^5 \mu\text{Ci/sec}</math> Ey</p> <p>Both Units 1 and 2 Release rate <math>&gt; 26 \times 10^5 \mu\text{Ci/sec}</math> Ey</p> <p>(b) Reactor Bldg Vent Stack: Release rate <math>&gt; 23 \times 10^4 \mu\text{Ci/sec}</math> 1.3Ey + E<math>\beta</math></p>	<p>A. Gaseous Effluent: Effluent monitors detect levels corresponding to &gt; 50 mR/hr (1.3 x 10<sup>7</sup> <math>\mu\text{Ci/sec}</math>) for 1/2 hour or &gt; 500 mR/hr (1.3 x 10<sup>8</sup> <math>\mu\text{Ci/sec}</math>) for 2 minutes at the site boundary. (Adverse Meteorology.)</p>	<p>A. Gaseous Effluent: Monitors detect levels corresponding to &gt; 1 rem/hr whole body at the site boundary. This condition exists when: Q/U &gt; 4.5 x 10<sup>7</sup> where Q = release rate in <math>\mu\text{Ci/sec}</math> U = mean wind speed in <u>mph</u> OR Q/U &gt; 1.0 x 10<sup>8</sup> where Q = release rate in <math>\mu\text{Ci/sec}</math> U = mean wind speed in <u>meters per second</u></p>

where: Ey = average gamma energy per disintegration (MeV/dis).

E $\beta$  = average beta energy per disintegration (MeV/dis).

These quantities are determined monthly and are prominently posted in the Control Room.

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MAR 07 1963

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QUAD-CITIES EMERGENCY ACTION LEVELS

QEP 200-T1  
Revision 8

CONDITION	UNUSUAL EVENT	ALERT	SITE EMERGENCY	GENERAL EMERGENCY
17. (Cont.)	(2) Iodine and Particulates - Summation of release rate for halogens and particulates with half-lives > 8 days: $7.3Q_v + 2.6Q_c > 10$	(2) Iodine and Particulates - Summation of release rate for halogens and particulates with half-lives > 8 days: $7.3Q_v + 2.6Q_c > 10^2$		

where:  $Q_v$  = release rate from the reactor  
building vent stack in  $\mu\text{Ci}/\text{sec}$ .  
 $Q_c$  = release rate from the main  
chimney in  $\mu\text{Ci}/\text{sec}$ .

B. Liquid effluents  
concentration of:  
(1) Gross beta activity  
(above background)  
in the discharge  
bay in excess of  
the Technical  
Specification  
Limit ( $> 1 \times 10^{-7}$   
 $\mu\text{Ci}/\text{ml}$ ) unless  
discharge is  
controlled on a  
radionuclide basis  
in accordance with  
Appendix B, Table II,  
Column 2 of 10 CFR 20  
and note 1 thereto.

B. Liquid effluents:  
(1) Concentration of  
gross beta activity  
in the discharge  
bay > 10 times the  
Technical Specifi-  
cation Limit  
( $> 1 \times 10^{-6}$   $\mu\text{Ci}/\text{ml}$ )  
unless discharge is  
controlled on a  
radionuclide basis  
in accordance with  
Appendix B, Table II  
Column 2 of 10 CFR  
20 and note 1 thereto.  
OR  
(2) Estimated activity  
of liquid release  
> 40 Curies but  
< 2000 Curies.

B. Liquid effluents:  
Estimated activity  
of liquid release  
is > 2000 Ci but  
 $\leq 20,000$  Ci.

B. Liquid effluents:  
Estimated activity  
of liquid release  
is >  $2.4 \times 10^4$  ci.

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MAR 07 1953

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QUAD-CITIES EMERGENCY ACTION LEVELS

QEP 200-T1  
Revision 8

CONDITION	UNUSUAL EVENT	ALERT	SITE EMERGENCY	GENERAL EMERGENCY
18. Personnel Injury	Transportation of radioactivity contaminated injured person to hospital.			
19. Hazardous Materials	As a direct result of hazardous materials a person is killed or hospitalized or estimated property damage exceeds \$50,000.	(1) Warrants precautionary activation of the TSC and placing the EOF and other key emergency personnel on standby.  (2) ARM readings(s) indicate a severe degradation in the control of radioactive material.	Warrants activation of emergency centers and monitoring teams, or a precautionary notification to the public near the site.	
20. Any other conditions of equivalent magnitude to the criteria used to define the accident as determined by Station Director <sup>*</sup>	Warrants increased awareness on the part of the state and/or local off-site officials.			Imminent core melt.

APPROVED

MAR 07 1983

O.C.O.S.K

- \* Other emergency conditions that require an emergency response are those involving:
- Incident reporting per 10 CFR 50.72.
  - Hazardous material incident reporting per P.A. 79-1442.
  - Oil discharges to waterways per the SPCC Plan.
  - Security contingency events per the Station Security Plan.

The Station Director may, at his discretion, categorize the above situations as GSEP emergencies, depending upon the seriousness of the situation. (Refer to Section 9.3 of the generic plan for additional information.)

EMERGENCY ACTION LEVELS -  
PROCEDURE CROSS REFERENCE

QEP 200-T2  
Revision 2  
February 1983

ID/4S

CONDITIONS	PROCEDURES
Aircraft Crash or Missiles Impacted	QGA-12,20
Control Room Evacuation	QOA 010-5
Earthquake	QEP 340-1
Unplanned Explosion	QEP 340-5; QAP 1900-6, 1900-S1
Fire	QEP 340-5; QOA 4100-1, 4100-2; QAP 1170-3
Flood	QOA 010-4
Security Threat	Consult QSP procedure manual
Tornado or Severe Winds	QEP 340-2
Toxic Gas	QOA 010-5, 5750-13
Loss of AC Power	QGA-12, 20; QOA 6100-1, 6100-2, 6400-1, 6400-2, 6500-1, 6500-2, 6500-3, 6500-4, 6500-5, 6500-6, 6600-1, 6600-2, 6600-4, 6700-4, 6700-5, 6700-6, 6800-1, 6800-2, 7000-1, 5600-4, 5600-5
Loss of DC Power	QOA 6900-1, 6900-2, 6900-3
ATWS/Plant Shutdown Functions	QEP 340-3; QGA-17, 19; QOA 300-5, 1000-2, 4400-1
Technical Specification LCO Exceeding	Consult Tech Spec. Refer to QOS outage sheets and surveillance procedures.
LOCA	QEP 330-7, 330-8; QGA-1, T1; QOA 201-1, 201-5, 201-6, 1000-4, 1300-6, 1400-1, 2300-1, 201-7, 201-9, 3200-2
RV or SV Fail to Close	QOA 201-2, 201-3
MS Line Break Outside DW	QEP 330-6, 330-7; QGA-3; QOA 201-1, 1700-6
Fuel Handling Accident	QEP 330-6, 330-7; QOA 7500-1; QAP 1170-7

APPROVED  
MAR 07 1983  
1000000

<u>CONDITIONS</u>	<u>PROCEDURES</u>
Containment High Radiation	QEP 330-7, 330-8; QGA-1; QOA 201-6
Reactor Coolant High Activity	QOA 400-1, 1700-6
High Primary Containment Pressure	QGA-1; QOA 1600-1, 201-7
Gaseous Effluent Release	QEP 330-2, 330-4, 330-5, 330-9, 330-T2, 330-T4, 330-T5, 350-T1, 350-T2, 550-T1, 550-T2, 550-T3; QOA 1700-3, 1700-4
Liquid Effluent Release	QEP 330-2, 330-4, 330-T3
Personnel Injury	QEP 370-1, 370-2, 550-1; QAP 1170-5
Hazardous Materials	QEP 200-2
Transportation Accident	QEP 310-1
Overexposure	QEP 330-1, 350-T1, 350-T2, 360-4, 360-5, 360-S1, 360-T5, 360-T6, 360-T7, 360-T8, 370-2, 610-1, 610-T1, 620-1, 620-2
Oil Spill	QEP 340-4
Evacuation	QEP 360-1, 360-2, 360-3, 360-T1, 360-T2, 360-T3, 360-T4
Loss of Containment	QOA 1600-2

APPROVED  
DATE 07/10/88  
D.C.O.S.R.

STATION PROCEDURE REVISION COVER SHEET

ID/LX

Revision Description This revision changes "Information Center" to "EOF" to reflect operation of new EOF.

<u>QEP</u> Chapter	<u>460-1</u> Procedure
<u>D. Jessen</u> Originator	<u>3</u> Revision

This procedure is required to be implemented prior to March 21, 1983  
because of \_\_\_\_\_  
Date

DRAFT REVIEW

FINAL APPROVAL

_____	_____
Tech. Staff Supervisor	Date
_____	_____
Department Head	Date
<u>[Signature]</u>	<u>3-2-83</u>
Originator	Date

<u>[Signature]</u>	<u>3-3-83</u>
Dept. Head <u>Rad Chem</u>	Date
<u>G. Tait</u>	<u>3/4/83</u>
Tech. Staff Supervisor	Date
<u>L. Gerner</u>	<u>3/3/83</u>
Asst. Supt. <u>Admin</u>	Date

AUTHORIZATION

<u>[Signature]</u>	<u>3/7/83</u>
Station Superintendent	Effective Date

INSTRUCTIONS FOR REVISION INSERTION

REMOVE

INSERT

QEP 460-0 Rev. 2  
QEP 460-1 Rev. 2

QEP 460-0 Rev.  
QEP 460-1 Rev. 3

REVISION RECEIPT FORM

Please sign and date below, and return this sheet to the Officer Supervisor - Quad Cities Station. Your Station Procedure copy number is 40.

Signature \_\_\_\_\_

Date \_\_\_\_\_

REMOVED  
NOV 6 1981



ID/3G,3H

EMERGENCY OPERATIONS FACILITY

460-0

Emergency Operations Facility

Rev. 3

03-07-83

460-1

Emergency Operations Facility Set-Up

Rev. 3

03-07-83

460-T1

Procedure Deleted

Rev. 2

12-15-82

APPROVED  
MAR 07 1983  
O.C.O.S.H

EMERGENCY OPERATIONS  
FACILITY SET-UP

QEP 460-1  
Revision 3  
February 1983

ID/4X

A. PURPOSE

The purpose of this procedure is to aid the environs staff personnel in setting up the Emergency Operations Facility for initial use during an emergency.

B. REFERENCES

1. QEP 550-T4, Emergency Operations Facility Supplies.
2. QEP 440-1, Emergency Communications Facilities.

C. PREREQUISITES

1. The Emergency Operations Facility will be initiated when deemed necessary by the Station Director.
2. Upon the decision to initiate the EOF, the Environs Director will instruct the Environs Staff to set up the EOF to accommodate the Environs Staff's needs. The Environs Staff will immediately relocate to the EOF.
3. The Environs Director will instruct the Environs Field Teams to gather the appropriate supplies for Field Team duties, relocate to the EOF, and await further instructions.

D. PRECAUTIONS

1. This procedure is meant as a guide to the Environs Staff and may be deviated from upon approval of the Environs Director or the Rad-Chem Director.
2. A key for the EOF may be obtained from the Shift Engineer.

E. LIMITATIONS AND ACTIONS

1. None.

APPROVED  
MAR 07 1983  
O.C.O.S.R.

F. PROCEDURE

1. Upon relocation to the EOF, communications with the TSC should be verified using the yellow phone. A regular telephone may be used, if the yellow phone is not functioning.
2. After verifying communications with the TSC, set up the GSEP radio by connecting it with the appropriate phone jack and plugging it into an outlet. Verify that the radio is in the "SCRAMBLE" mode, and test communications by contacting the TSC. At this time, the Environs Director may relocate to the EOF.
3. Upon arrival of the Environs Teams at the EOF, test communications with their portable radios in the "SCRAMBLE" mode. Notify the TSC that the Environs Teams are ready to be dispatched.
4. Instruct one of the field teams to travel toward Iowa on a route dictated by the wind direction.
5. Tape one film dosimeter and one zeroed pencil dosimeter outside the EOF, above the main doors. Verify presence of sampling supplies and dosimetry as described in QEP 550-T4.
6. Conduct periodic dose rate and contamination surveys in the EOF and immediately surrounding area as deemed necessary by the Environs Director.
7. Assist the Environs Director as necessary.

G. CHECKLISTS

1. None.

H. TECHNICAL SPECIFICATION REFERENCES

1. None.

APPROVED  
MAR 07 1953  
D.C.O.S.R

STATION PROCEDURE REVISION COVER SHEET

ID/LX

Revision Description This revision  
changes the name and  
address of the person  
to be sent agreement  
letters to reflect the  
change in hospitals to Moline Public

<u>QEP</u> Chapter	<u>510-T1</u> Procedure
<u>D. Jesser</u> Originator	<u>3</u> Revision

This procedure is required to be implemented prior to March 21, 1983  
Date  
because of change in hospitals

DRAFT REVIEW

Tech. Staff Supervisor	Date
Department Head	Date
<u>[Signature]</u> Originator	<u>3-2-83</u> Date

FINAL APPROVAL

<u>[Signature]</u> Dept. Head <u>Ad Chem</u>	<u>3-3-83</u> Date
<u>G. Tiet</u> Tech. Staff Supervisor	<u>3/4/83</u> Date
<u>L. Gerner</u> Asst. Supt. <u>Admin</u>	<u>3/3/83</u> Date

AUTHORIZATION

<u>[Signature]</u> Station Superintendent	<u>3/7/83</u> Effective Date
--	---------------------------------

INSTRUCTIONS FOR REVISION INSERTION

REMOVE

QEP 510-0 Rev. 4  
QEP 510-T1 Rev. 2

INSERT

QEP 510-0 Rev. 5  
QEP 510-T1 Rev. 3

REVISION RECEIPT FORM

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Quad Cities Station. Your Station Procedure copy number is 40.

Signature \_\_\_\_\_

Date \_\_\_\_\_

7:21 PM NOV 6 1981

ID/2A,2B

ADMINISTRATIVE

<u>510-0</u> Administrative	Rev. 5	03-07-83
<u>510-1</u> Document Control and Review	Rev. 2	01-26-81
<u>510-2</u> Off-Site Agency Support	Rev. 1	12-17-80
<u>510-T1</u> Agencies to be Sent Agreement Letters	Rev. 3	03-07-83
<u>510-T2</u> Suggested Text for Off-Site Agency Agreement Letters	Rev. 1	12-17-80

APPROVED  
MAR 07 1983  
Q.C.O.S.R.

AGENCIES TO BE SENT  
AGREEMENT LETTERS

ID/3I

Dr. Phillip Gustafson  
Illinois Department of Nuclear Safety  
1035 Outer Park Drive  
Springfield, IL 62706  
217-546-8100

Mr. Robert H. Bauer  
United States Department of Energy  
Chicago Operations Office  
9800 South Cass Avenue  
Argonne, IL 60439  
312-972-2000

Captain Jack Keleher  
District #7 - Commander  
Illinois State Police  
1510 - 46th Avenue  
Rock Island, IL 61201  
309-755-0428

Mr. Terry Steiger  
Emergency Operations Manager  
U.S. Army Corps of Engineers  
Rock Island District  
Clock Tower Building  
Rock Island, IL 61201  
309-788-6361

Mr. E. Erie Jones  
Director  
State of Illinois Emergency Services  
and Disaster Agency  
110 East Adams Street  
Springfield, IL 62706  
217-782-4268

Chief Leroy Schipper  
Albany Fire Department  
Albany, IL 61230  
309-887-4451

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Civil Defense  
City of East Moline  
915 Sixteenth Street  
East Moline, IL 61244  
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Mr. Mark E. Barnes, Director  
Clinton County Office of Civil  
Defense and Disaster Services  
Clinton County City Law Enforcement  
Center  
Clinton, IA 52732  
319-242-5712

Mr. H. L. Whitfield, Director  
Scott County - Municipal Civil  
Defense and Disaster Services  
Agency  
Scott County Court House  
Davenport, IA 52801  
319-326-8663

Mr. L. L. Kimmel  
Whiteside County Sheriff  
Law Enforcement Center  
Morrison, IL 61270  
815-772-4044

Lieutenant Harry Weiss  
Iowa State Patrol Post #12  
3112 East Kimberly Road  
Davenport, IA 52807  
319-359-0388

Mr. Gordy Powell  
Rock Island County Sheriff  
P.O. Box 306  
Rock Island, IL 61201  
309-794-1230

APPROVED  
MAR 07 1983  
Q.C.O.S.R.

Mr. Tyler Schoenhern  
Moline Public Hospital  
635 Tenth Avenue  
Moline, IL 61265

Mr. Harlan Poel  
Fire Chief  
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309-654-2194

Mr. Leon Gibson  
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309-523-3151

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Iowa-Illinois Gas and Electric  
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206 East Second Street  
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Iowa Office of Disaster Services  
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Room A-29  
DesMoines, IA 50319  
515-281-3231

Mr. Thomas Linneman  
Radiation Management Corporation  
3508 Market Street  
Philadelphia, PA 19104  
215-243-2948

Mr. John Murray  
Murray and Trettal  
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Northfield, IL 60093  
312-273-5600

Mr. Leo Huebner  
Hazelton Environmental Sciences  
1500 Frontage Road  
Northbrook, IL 60062  
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Ms. Jeanine Mac Donald  
R.S. Landauer, Jr. and Company  
Glenwood Science Park  
Glenwood, IL 60425  
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Mr. Gary E. Larson  
Illini Hospital Ambulance Service  
801 - 13th Avenue  
Silvis, IL 61282  
309-792-9363

Commanding Officer  
U.S. Coast Guard Marine Safety Office  
Minneapolis / St. Paul  
P.O. Box 3574  
St. Paul, Minnesota 55165  
612-725-7452

APPROVED  
MAR 07 1983  
Q. C. O. S. R

ID/1X

Revision Description This revision changes the name and address of person to be sent training invitations to reflect the change in hospitals to Malina Public.

QEP  
Chapter

520-T1  
Procedure

D. Jessen  
Originator

3  
Revision

This procedure is required to be implemented prior to March 21, 1983 Date  
because of change in hospitals

DRAFT REVIEW

FINAL APPROVAL

Tech. Staff Supervisor \_\_\_\_\_ Date \_\_\_\_\_  
Department Head \_\_\_\_\_ Date \_\_\_\_\_  
[Signature] 3-2-83  
Originator \_\_\_\_\_ Date \_\_\_\_\_

[Signature] 3-3-83  
Dept. Head [Signature] Date \_\_\_\_\_  
G. [Signature] 3/4/83  
Tech. Staff Supervisor \_\_\_\_\_ Date \_\_\_\_\_  
L. [Signature] 3/3/83  
Asst. Supt. [Signature] Date \_\_\_\_\_

AUTHORIZATION

[Signature] 3/7/83  
Station Superintendent \_\_\_\_\_ Effective Date \_\_\_\_\_

INSTRUCTIONS FOR REVISION INSERTION

REMOVE

QEP 520-0 Rev. 6  
QEP 520-T1 Rev. 2

INSERT

QEP 520-0 Rev. 7  
QEP 520-T1 Rev. 3

REVISION RECEIPT FORM

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Date \_\_\_\_\_

APPROVED  
NOV 6 1983



ID/2C,2D

TRAINING

<u>520-0</u> Training	Rev. 7	03-07-83
<u>520-1</u> Training Procedure	Rev. 3	08-19-82
<u>520-2</u> Training for Off-Site Support Agencies	Rev. 2	08-10-81
<u>520-S1</u> Procedure Deleted	Rev. 2	08-19-82
<u>520-T1</u> Agencies to be Sent Training Invitations	Rev. 3	03-07-83
<u>520-T2</u> Suggested Text for Off-Site Agency Meeting and Training Invitation Letter	Rev. 1	12-17-80
<u>520-T3</u> Suggested Text for Off-Site Agency Meeting Invitation Letter	Rev. 1	12-17-80
<u>520-T4</u> Suggested Text for Off-Site Agency Training Invitation Letter	Rev. 1	12-17-80
<u>520-T5</u> QEP Training Requirements for GSEP Directors and Alternates	Rev. 1	08-19-82

APPROVED  
MAR 07 1983  
Q.C.O.S.R.

AGENCIES TO BE SENT  
TRAINING INVITATIONS

QEP 520-T1  
Revision 3  
February 1983

ID/3H

Dr. Phillip Gustafson  
Illinois Department of Nuclear Safety  
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District #7 - Commander  
Illinois State Police  
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Emergency Operations Planner  
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Chief Leroy Schipper  
Albany Fire Department  
Albany, IL 61230  
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APPROVED  
MAR 07 1983  
Q.C.O.S.R.

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Commanding Officer  
U.S. Coast Guard Marine Safety Office  
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Iowa Office of Disaster Services  
Hoover State Office Building  
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Des Moines, IA 50319  
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Glenwood, IL 60425  
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Radiation Management Corporation  
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Mr. Paul Sereg  
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Mr. James G. Keppler  
Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region III  
799 Roosevelt Road  
Glen Ellyn, IL 60137  
312-932-2500

APPROVED  
MAR 07 1983  
Q.C.O.S.R.

STATION PROCEDURE REVISION COVER SHEET

ID/LX

Revision Description This revision  
removes the EOE on a  
film cassette location  
and adds a sign  
off

<u>QEP</u> Chapter	<u>550-T3</u> Procedure
<u>D. Jensen</u> Originator	<u>2</u> Revision

This procedure is required to be implemented prior to \_\_\_\_\_ Date  
because of \_\_\_\_\_

DRAFT REVIEW

Tech. Staff Supervisor	Date
Department Head	Date
<u>[Signature]</u> Originator	<u>2-17-83</u> Date

FINAL APPROVAL

<u>[Signature]</u> Dept. Head	<u>2-19-83</u> Date
<u>G. Witt</u> Tech. Staff Supervisor	<u>2/22/83</u> Date
<u>J. Herwer</u> Asst. Supt. Admin	<u>2/22/83</u> Date

AUTHORIZATION

<u>[Signature]</u> Station Superintendent	<u>2/24/83</u> Effective Date
--	----------------------------------

INSTRUCTIONS FOR REVISION INSERTION

REMOVE

QEP 550-0 REV 9  
QEP 550-T3 REV 1

INSERT

QEP 550-0 REV 10  
QEP 550-T3 REV 2

REVISION RECEIPT FORM

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Quad Cities Station. Your Station Procedure copy number is 40.

Signature \_\_\_\_\_ Date \_\_\_\_\_

-1-(final)

APPROVED

NOV 6 1981

Q.C.O.S.R.

ID/2E:2E

EMERGENCY EQUIPMENT  
AND SUPPLIES

<u>550-0</u> Emergency Equipment and Supplies	Rev. 10	03-04-83
<u>550-1</u> First Aid and Decontamination Facilities	Rev. 2	08-01-80
<u>550-2</u> Inventory of Emergency Equipment	Rev. 2	01-07-82
<u>550-T1</u> Environ Sampling Supplies	Rev. 4	01-07-82
<u>550-T2</u> Operational Support Center Emergency Supplies Cabinet	Rev. 4	01-07-82
<u>550-T3</u> Emergency Situation Film Dosimeters	Rev. 2	02-24-83
<u>550-T4</u> Emergency Operation Facility Supplies	Rev. 2	12-15-82
<u>550-T5</u> Technical Support Center Supplies	Rev. 1	01-07-82
<u>550-T6</u> Moline Public Hospital Radiation Emergency Area Supplies and Equipment	Rev. 2	03-04-83

APPROVED  
MAR 04 1983  
Q.C.O.S.R.

EMERGENCY SITUATION  
FILM DOSIMETERS

QEP 550-T3  
Revision 2  
January 1983

ID/4R

Emergency film dosimeters shall be stored in green\* holders in the stations' guardhouse and the two environs team lockers in the guardhouse. This film will be distributed to personnel according to recommendations of the Rad-Chem Director. Film used for environs monitoring will be distributed to locations according to recommendations of the environs director. Quantities of film are as follows:

LOCATION	# OF FILM
Guardhouse**	70
Environs Locker #1	12
Environs Locker #2	12

\* Green holders for emergency film in the environs lockers will not be available as of the revision date of this procedure.

\*\* In case of an evacuation of station personnel, the emergency film will be transferred to the applicable access control point for the station.

NAME \_\_\_\_\_

DATE \_\_\_\_\_

APPROVED  
FEB 24 1983  
Q.C.O.S.M

STATION PROCEDURE REVISION COVER SHEET

ID/LX

Revision Description This revision  
changes "Jane Lamb Memorial  
Hospital" to "Moline Public  
Hospital" and deletes  
some equipment items.

QEP  
Chapter

550-76  
Procedure

D. Jessen  
Originator

2  
Revision

This procedure is required to be implemented prior to March 15, 1983  
because of new hospital Date

DRAFT REVIEW

Tech. Staff Supervisor \_\_\_\_\_ Date \_\_\_\_\_

Department Head \_\_\_\_\_ Date \_\_\_\_\_

Originator [Signature] 3-2-83  
Date

FINAL APPROVAL

[Signature] 3/3/83  
Dept. Head \_\_\_\_\_ Date

G. F. [Signature] 3/7/83  
Tech. Staff Supervisor \_\_\_\_\_ Date

L. Herwer 3/3/83  
Asst. Supt. Admin \_\_\_\_\_ Date

AUTHORIZATION

[Signature] 3/4/83  
Station Superintendent \_\_\_\_\_ Effective Date

INSTRUCTIONS FOR REVISION INSERTION

REMOVE

INSERT

QEP 550-T5 Rev. 1

QEP 550-T6 Rev. 2

REVISION RECEIPT FORM

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Quad Cities Station. Your Station Procedure copy number is 40.

Signature \_\_\_\_\_

Date \_\_\_\_\_

APPROVED  
NOV 6 1983

ID/4H

MOLINE PUBLIC HOSPITAL  
 RADIATION EMERGENCY AREA  
 SUPPLIES AND EQUIPMENT

QEP 550-T6  
 Revision 2  
 February 1983

The following equipment and supplies will be stored at the Moline Public Hospital in the Radiation Emergency Area. This equipment and supplies are to be used in conjunction with the decontamination and treatment of radioactively contaminated patients at Moline Public Hospital. If discrepancies are found, a Health Physicist should be notified. A quarterly inventory shall be performed.

## Requirements for Radiation Emergency Area:

DESCRIPTION	QUANTITY
Count Rate Meter (PRM-4A or equivalent) with HP-210 probe.	1
"Cutie Pie" Ion Chamber	1
Spare Probe for HP-210	1
Self-reading Dosimeters, 0-200 mR 0-1R	10 4
Film Badges	10
Finger Ring Badges	6
Dosimeter Charger	1
Batteries, 9 V Transistor	4
1.5 V D-cell	5
15 V Photo/Electronic	1
1.5 V "AA"	2
Protective Clothing:	
Gowns, disposable	20
Gloves, surgical sterile	50
non-sterile	2 boxes
Plastic Aprons	10
Shoe Covers, disposable	1 box
Face Masks	1 box
Head Covers	10
Sheets, barrier, disposable	3
Basic Pack II	1
Towels, disposable	3 packages

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DESCRIPTION	QUANTITY
Pre-cut Labels	500
Shield, mobile, lead glass	1
Decontamination kit	1
Sample Taking Kit	1
Step-Off Pads	7
Radioactive Truck Placards	4
Signs:	
"Caution Radioactive Material"	2
"High Radioactivity Area Signs"	2
"High Radiation Area"	2
"Radioactive Material"	3
"Airborne Radioactivity Area"	2
"Radiation Area - Radioactive Material"	2
Decontamination Table Top	1
Water Receptacle, 30 gallon	1
Lead Container	1
Trash Can (for contaminated articles)	1
Radiation Accident Posters	1
Showerhead and Retractable Hose	1
Kraft Paper or Pyrokare	1 roll
Respirator, 1/2 mask	9
Radiation Warning Rope	50 ft.
Herculite, (sized as per REA procedures)	1 each
Radiation Tags:	
"Caution Radioactive Material"	20
"Unconditional Release"	20

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DESCRIPTION	QUANTITY
Radiation Stickers:	
"Caution Radioactive Material"	20
"Contaminated Clothing"	20
"Caution Radiation Area"	20
Plastic Bags:	
small	20
medium	20
large	20
Cotton Balls	1 box
Manual: "Decontamination of an Injured and Contaminated Patient"	1

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