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 BYRAM, R.G. Pennsylvania Power & Light Co.
 RECIPIENT AFFILIATION
 MILLER, C.L. Project Directorate I-2

REV. 6/25/94 

SUBJECT: Forwards Rev 20 to "SSES Emergency Plan." Rev reflects changing primary emergency offsite dose projection model from STREAM to MIDAS (Meteorological Info & Dose Assessment Sys).

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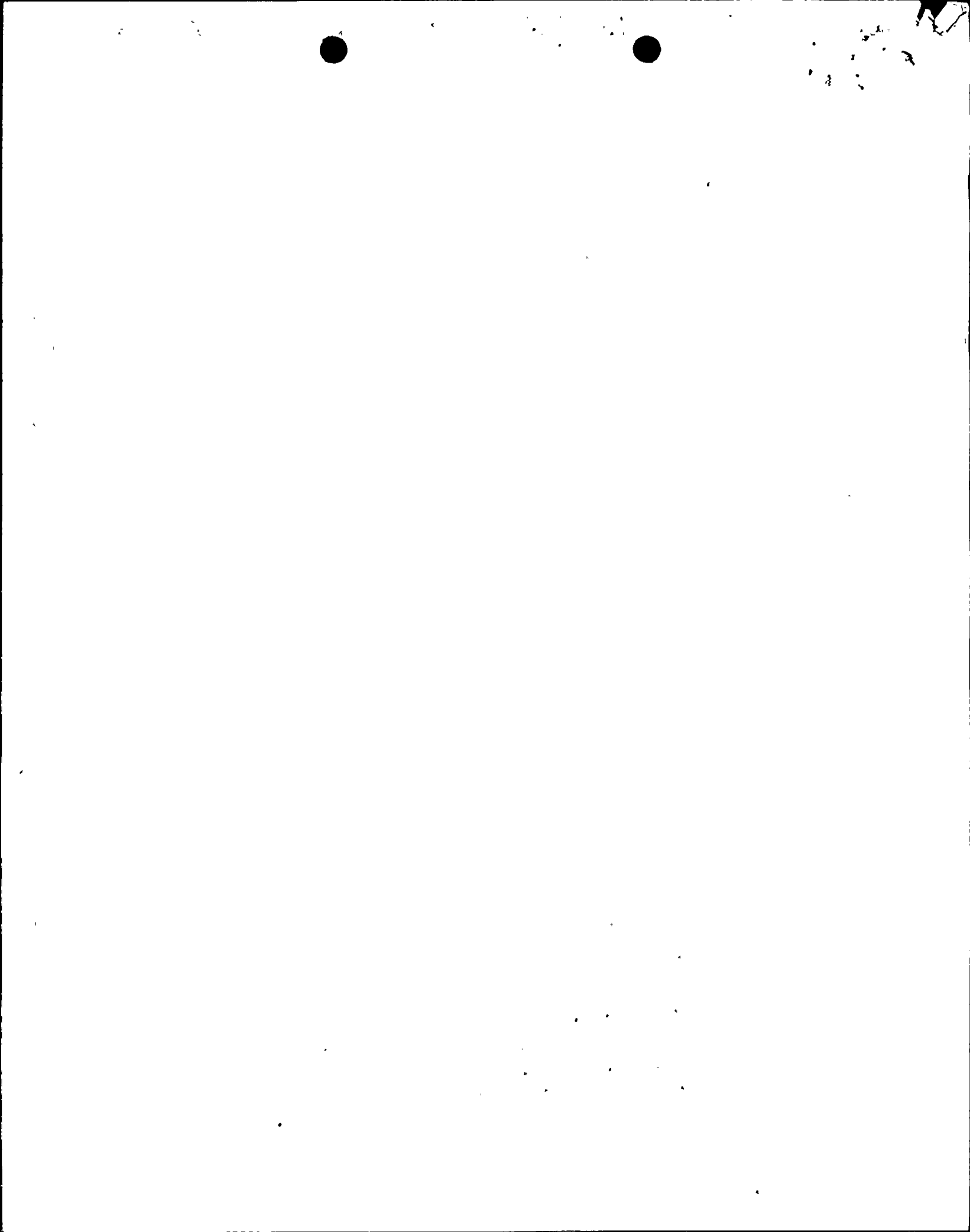
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DEC 17 1993

Robert G. Byram
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**THIS COVER LETTER WAS
INADVERTENTLY ISSUED
WITHOUT BEING DATED.
PLEASE REPLACE THE
PREVIOUSLY ISSUED PLA.**

Director of Nuclear Reactor Regulation
Attention: Mr. C. L. Miller, Project Director
Project Directorate I-2
Division of Reactor Projects
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

**SUSQUEHANNA STEAM ELECTRIC STATION
EMERGENCY PLAN REVISION NO. 20
PLA-4065** FILES R36, A17-13

Docket Nos. 50-387
and 50-388

Dear Mr. Miller:

Enclosed is Revision 20 to the Susquehanna Steam Electric Station Emergency Plan. In accordance with the requirements of 10CFR50.54q, the changes have been made without prior formal commission approval as they do not decrease the effectiveness of the plan; and the plan as changed, continues to satisfy the applicable requirements of Appendix E to 10CFR50.

Revision 20 reflects changing the primary emergency offsite dose projection model from STREAM to MIDAS (Meteorological Information and Dose Assessment System).

Should you have any questions regarding this submittal, call Mr. R.M. Peal at (717) 542-3233.

Very truly yours,



R. G. Byram

Enclosure

- cc: NRC Document Control Desk (original)
- NRC Region I
- Mr. G. S. Barber, NRC Sr. Resident Inspector - SSES
- Mr. R. J. Clark, NRC Sr. Project Manager - Rockville
- Mr. T. T. Martin, Administrator, Region I

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bcc: R. D. Kichline	A2-4
D. F. McGann	SSES
C. A. Myers	A2-4
R. M. Peal	SSES/EOF
W. F. Tabor	SSES/EOF
R. R. Wehry	SSES
W. W. Williams	A2-4
NRA Files	A2-4
NR Corres. Files	A6-2

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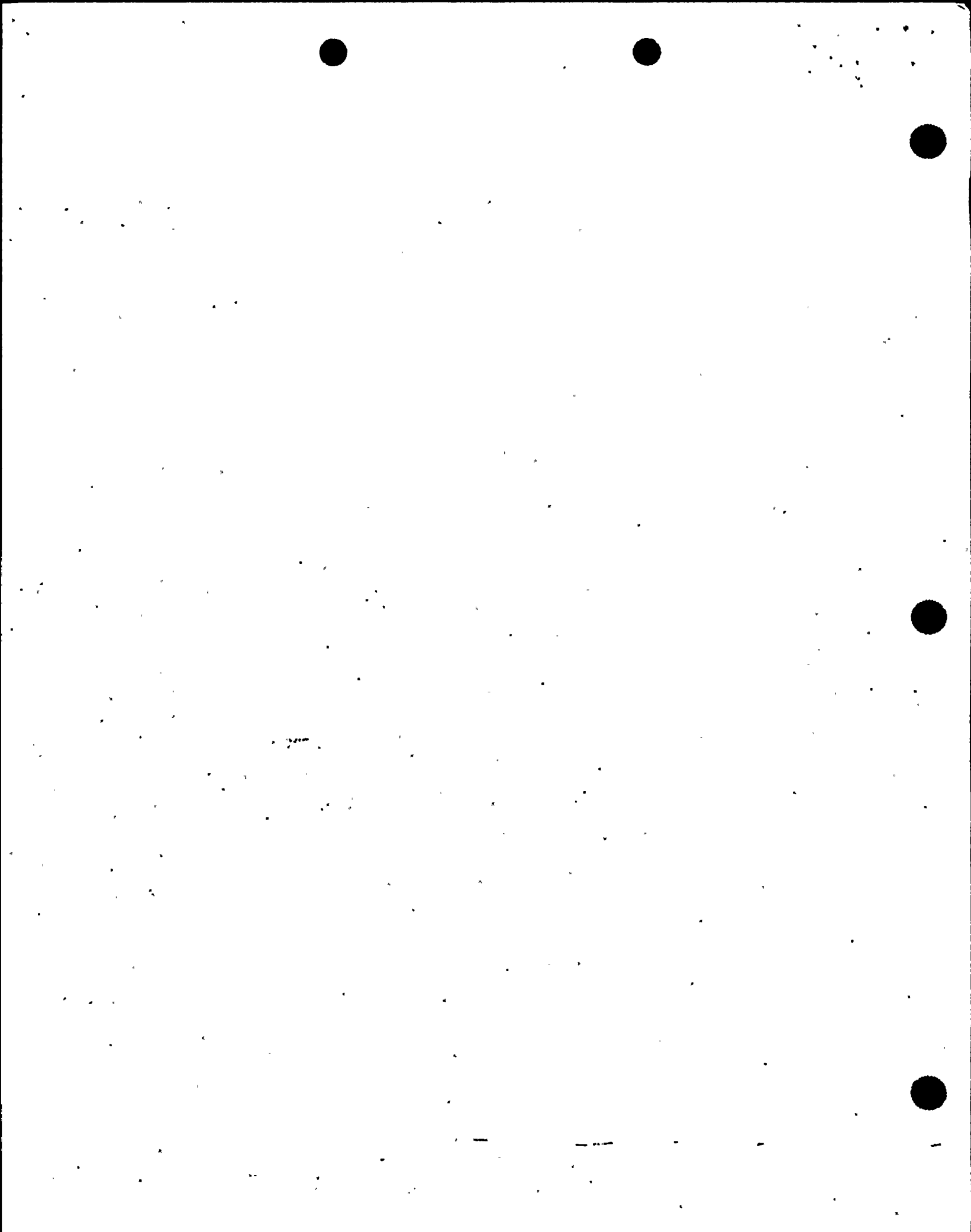
Additional General Criteria

- Only volunteers are given planned emergency exposure.
- Attached tables provide information concerning acute and delayed health effects.
- Whenever practical, consideration is given to dividing exposure among as many personnel as possible.
- Potassium Iodide utilization for iodide prophylaxis requires the approval of the Emergency Director or the Recovery Manager in consultation with the Radiation Protection Coordinator or the Radiation Support Manager and medical consultants, if available. It is recommended that potassium iodide only be administered in situations where potential exposure of the thyroid is anticipated to exceed 25 rem.
- All reasonable measures must be taken to control contamination and internal exposure.
- Persons performing emergency activities should be familiar with exposure consequences.
- Women capable of reproduction should not take part in these actions.
- Retrospective doses are evaluated on an individual case basis.
- To the extent reasonable, persons with high lifetime cumulative radiation exposure should not take part in these actions.
- As in the case of normal occupational exposure, doses received under emergency conditions should be maintained as low as reasonably achievable.

Health Effects Associated with Whole Body Absorbed Doses Received Within a Few Hours^a

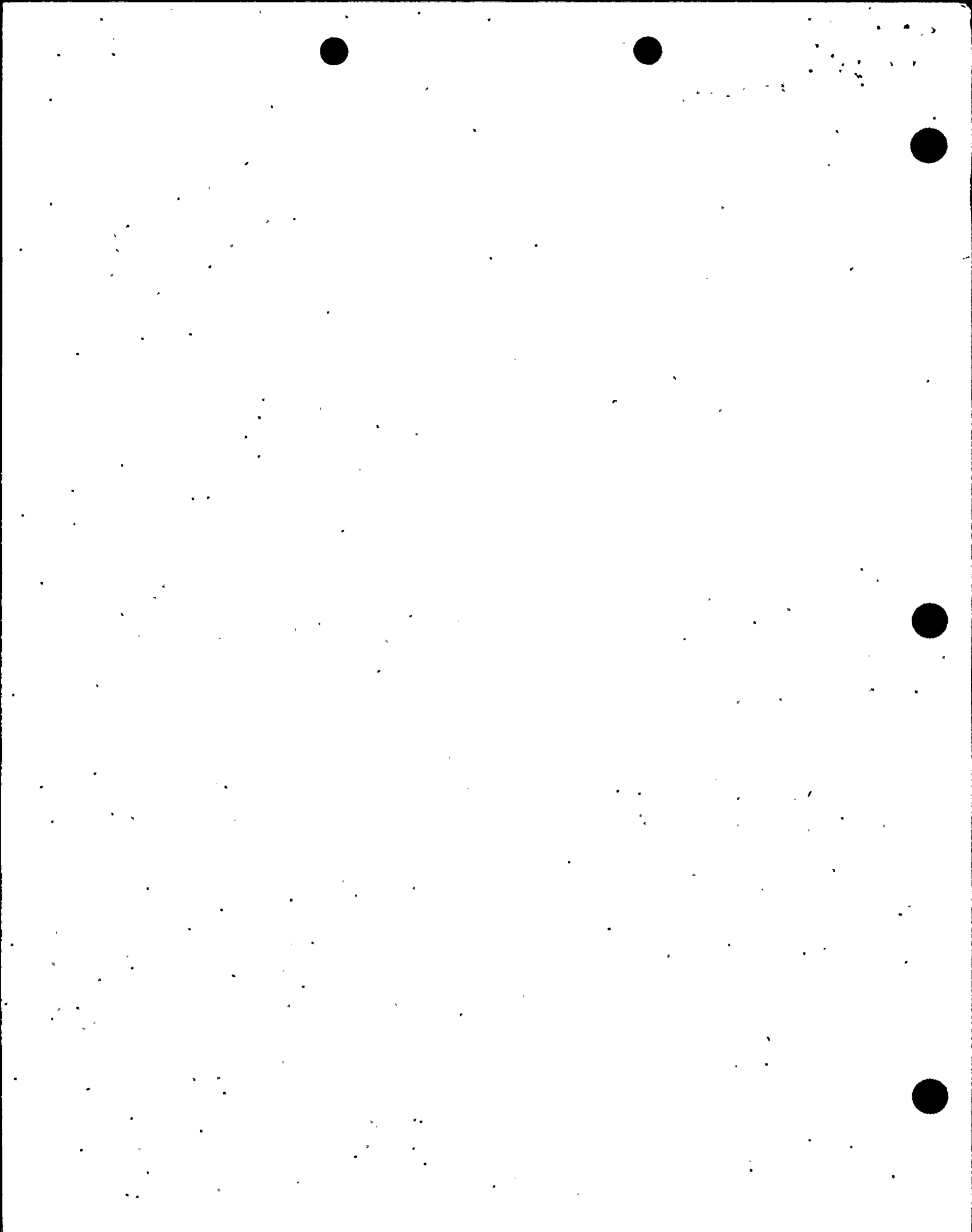
Whole Body Absorbed Dose (rad)	Early Fatalities ^b (percent)	Whole Body Absorbed Dose (rad)	Prodromal Effects ^c (percent affected)
140	5	50	2
200	15	100	15
300	50	150	50
400	85	200	85
460	95	250	98

- ^a Risks will be lower for protracted exposure periods.
- ^b Supportive medical treatment may increase the dose at which these frequencies occur by approximately 50 percent.
- ^c Forewarning symptoms of more serious health effects associated with large doses of radiation.



Approximate Cancer Risk to Average Individuals from 25 Rem Effective Dose Equivalent Delivered Promptly

Age at Exposure (years)	Approximate Risk of Premature Death (deaths per 1,000 persons exposed)	Average Years of Life Lost if Premature Death Occurs (years)
20 to 30	9.1	24
30 to 40	7.2	19
40 to 50	5.3	15
50 to 60	3.5	11



SUSQUEHANNA STEAM ELECTRIC STATION

EMERGENCY PLAN, REVISION 20

REMOVE AND INSERT INSTRUCTIONS

REMOVE

INSERT

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Title Page, Revision 20

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List of Effective Pages,
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Section 1.0, DEFINITIONS
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