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January 24, 1983 4410-83-L-0020

TMI Program Office Attn: Dr. B. J. Snyder, Director US Nuclear Regulatory Commission Washington, DC 20555

Dear Sire

Three Mile Island Nuclear Station, Unit 2 (TMI-2) Operating License No. DPR-73 Docket No. 50-320

Recovery System Description and Technical Evaluation Report Update

In accordance with your letter of February 4, 1962, attached is the annual update for the Interim Solid Waste Staging Facility (ISMSF) Technical Evaluation Report. In addition, a review of the Standby Pressure Control System, the Mini-Decay Heat Removal System, and the Fuel Pool Wasta Storage System System Descriptions indicate that no changes are necessary.

The need for and extent of revisions to the following System Descriptions and Technical Evaluation Reports is presently undergoing internal review and updates will be provided to the NRC as they become available:

- Auxiliary Building Emergency Liquid Cleanup System (EPICOR II) System Description
- Solid Radenste Staging Modules System Description
 Submerged Demineralizer System (SDS) System Description
- Submerged Demineralizer System Technical Evaluation Report

If you have any questions, please contact Mr. J. E. Larson of my staff.



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Attachment

CC: Mr. L. H. Barrett, Deputy Program Director - TMI Program Office

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ration is a subsidiary of the General Public Utilities Corporation

TECHNICAL EVALUATION REPORT

FOR

INTERIM SOLID WASTE STAGING FACILITY

FOR

GPU SERVICE CORPORATION

THREE HILE ISLAND - UNIT 2

(3233)

Bechtel Northern Corporation Bechtel Job 13587 Revision 4 July 1982

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1.1 General

The clasmy effort at Three Hile Island Unit 2 is expected to result in the generation of a significant quantity of low level (Note 1) solid or solidified redioactive waste. In addition, low level solid or solidified redioactive waste a slab being generated in Unit 1. Due to limitations on low level redioactive waste disposal sites and limited onsite staging capacity, an additional facility for the collection and tamporary staging of low level solid or solidified radioactive waste in needed.

The facility proposed to fulfill the need identified above is the Interim Solid Waste Staging Facility (ISWSF).

This Technical Evaluation Report (TER) demonstrates that the ISWSF has been designed and will be operated in such a manner as to provide assurance that:

- a. The health and safety of the public will be protected.
- Occupational exposures will be as low as reasonably achievable (ALARA).
- c. There will be no adverse impact on the environment.

1.2 Organization of Report

This report is organized in the format of a combined safety analysis and environments report. Following this introduction, a description of the design and operational considerations is presented. This is followed by a discussion of the safety and environmental issues associated with the facility. A comparison of the ISMSF design with the Proport concludes with the safety would be supported to the control of the safety and properly the proport concludes with the safety evaluation required by 10 CFR 50, paragraph 50.59, "Changes, the propert concludes with the safety evaluation required by 10 CFR 50, paragraph 50.59, "Changes, the property of the safety and the safety of the safety

1.3 Conclusion

The information provided in this report results in the following conclusions:

 The ISWSF fulfills the need for a facility in which to temporarily stage low level solid or solidified radioactive waste.

Note 1. As used herein the term "low level" refers to the dose rate on contact with the waste packages as defined in Table 2-1. The term gives no indication as to the isotopic or elemental content of the package.

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b. The operation of the facility is not an unreviewed safety question as defined in 10 GTR Part 50, paragraph 50.59. 2.0 FACILITY DESCRIPTION

2.1 Purpose of the Facility

The ISMSF is to be used for the staging of low level solid or solidified radioactive waste packages from both Units 1 and 2 prior to shipment offsite for disposal. The packages will be staged in the facility for up to 2 years.

2.2 Susmary Description

2.2.1 Location

As shown on Figure 2-1, the ISMS is located east of the Unit 2 turbine building and between the offsite transmission lines for Unit 2. It is surrounded by an outer fence which adds in restricting access to the area immediately surrounding the facility. One section of the butter fence is common to the switchyard fence, and another section is part of the site fence located on the island along the east channel of the river. Access to the area enclosed by the outer fence will be controlled by established plant procedures. The only activities occurring within this area will be those associated with the ISMST.

2.2.2 Design Basis

The ISWSF has no safety design basis.

ready access for material handling operations to ensure that operator exposures are as low as is reasonably achievable (ALARA). The facility is sized to accommodate the waste generated in 6 souths from Units I and 2. The monthly waste generation rates used in the design are given in Table 2-1.

The IBMSF is designed to conform with 10 CFR Part 20, paragraph 105(b)(2). This is accomplished by entablishing a restricted area around the facility, composed of the area inside the outer fence and a section of the adjacent extichyed enclosure. The facility is also designed to meet the requirements of 40 CFR Part 190 at the site boundary and berond.

2.2.3 Building Description

The ISWF, shown in Figure 2-2, is a non-seismic Category 1, concrete floor sish, covered by a prefebricated metal roof. Shielding partitions of grout-filled concrete masonry units are used to satisfy the dose rate criteris specified in Section 2.2.2. A roof is provided to minisise the volume of reinwater entering the facility which could potentially become contaminated and thus require monitoring and processing. The roof also allows unleading and loading of trucks during adverse weather conditions.

of the floor slab to centain any rainwater that may enter the building. The floor slab is oloped so that any water the building. The floor slab is aloped so that any water entering the facility will be directed toward one of the six sump provided. With the use of portable pumps, water collected in these sumps will be disposed of an accordance with established plant operation procedures. The sumps are provided with annually ectuated besters to facilitate disposal of collected uster during the winter.

The floor slab, sumps, and curb are epoxy coated for ease of decontamination, should the need arise. The steel columns and the roof framing have a protective finish. The shielding partition surfaces are painted with a sealer.

In addition to the outer fence surrounding the area around the ISWST, there is an 8-foot-high inner fence provided around the unwalled sections of the facility (see Figure 2-2).

With the exception of small quantities of electrical cable associated with electrical power and the in-plant paging system, all materials used in the construction of the facility are noncombutible.

2.2.4 General Arrangement

The ISWST consists of six basic areas: (1) loading/ unloading, (2) survey, (3) open staging, (4) Unit 1 shielded staging, (5) Unit 2 shielded staging, and (6) personnel monitoring/analysis. A discussion of these areas follows. The general arrangement of the facility is shown in Figure 2-2.

2.2.4.1 Loading/Unloading Area

The loading/unloading area consists of a truck bey, a ramp into the facility, and an area for the loading and unloading of a standard flatbed trailer or enclosed van by a standard forklift.

2.2.4.2 Survey Area

A survey area is provided to allow for radiation surveys of the waste packages prior to placing them on a truck for shipment off site. This area is separated from the truck bay and the open staging area by shield partitions.

2.2.4.3 Open Staging Area

The open staging area is separated from the survey area by a shield partition. For administrative purposes, it is divided into a section for Unit 1 wastes and a section for Unit 2 wastes. The Unit 1 and Unit 2 areas are fleatible and shown in Figure 2-2 for illustration. These areas may vary throughout the life of the facility. These sections are separated by a portable barrier consisting of stanchions connected by a chain. Access routes, or sisles, with gates at the entrance, ellow for the movement of the containers by a forhilft to the appropriate area.

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It should be noted that the segregation of wastes by unit is not required by federal regulations. Rather, it is solely for utility administrative purposes.

2.2.4.4 Shielded Staging Areas

Bilelded staging areas are provided in order to meet the dose rate limits specified in the design basis, Section 2.2.2. Separate shielded areas are provided in order to maintain separation between wates from each unit. Access to these areas is by mans of the sales identified in Section 2.2.4.3. Access will be controlled by edministrative procedures.

2.2.4.5 Personnel Monitoring/Analysis Area

The personnel monitoring/analysis ares is a small cubicle at the end of the loading/unloading ares. This area contains equipment for personnel monitoring and for the analysis of swipe samples of the waste packages.

2.3 Major Systems

The only systems provided for the operation of the IRMF are electrical power for lighting, receptacles, sump heaters, and the in-plant paging system. Home of these systems serve any safety-related function.

No radiation monitors are provided in the facility. This is because the facility is a radiological controlled area. Access is controlled at the outer fence and in the switchyard, where dose rates could exceed allowable limits for an ".restricted area.

2.4 Material Handling Operations

2.4.1 Description of Packages

The packages to be staged in the ISWSF are of several types. These are described below.

Four 55-gallon drums of compacted trash and/or solidified radiac waste will be placed on 4-foot by 4-foot pallets. Depending on the weight of each drum, they may be banded together.

A single 50-cubic-foot liner of solidified evaporator bottoms will be placed on a 4-foot by 4-foot pallet. The dimensions of the liner are 4 feet in dimenter and 4 feet high.

There will also be metal LSA boxes containing compacted trash satisfying the requirements of 10 CFR Part 71. The dimensions of the LSA boxes are 4 feet x 4 feet x 7 feet. These boxes will arrive at the facility with a spacer between each box to allow a forklift to readily lift the box.

All waste packages received in the ISMEF will be completely propered for shigment. All counting, swiping, decontamination, and weighing will be done prior to the transfer of the packages to the ISMEF. Provisions have been included in the design of the ISMEF to allow additional counting and swipings in the ISMEF.

2.4.2 Unloading and Stacking of the Packages

The packages of waste will arrive at the ISMST on either a standard flatbed trailer or in an enclosed van. Upon arriving at the facility, the webicle containing the waste will be parked in the truck bey located in the loading/unloading area. At this point a 3,000-pound to 5,000-pound capacity forbliff will unload the packages and transport them to the proper area of the facility.

Upon arriving at the proper location within the facility, the packages will be stacked. The pallets and boxes will be stacked no more than three high, which is consistent with current GPUSC practice. In general, the pallets will be stacked in a staggered manner. The LSA boxes will be stacked one on another with spacers.

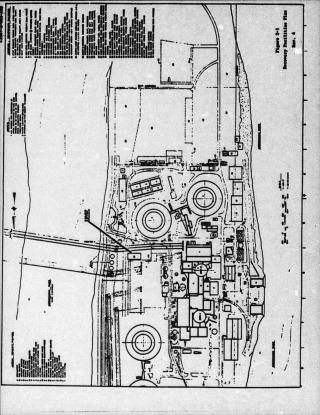
The required lift height of approximately 10 feet is well within the 16-foot lifting height of the forklift. The capability of the pallets to carry the load has been checked for the design basis arrangement and has been found acceptable. The pallets are of four stringer design, with solid planking top and bottom.

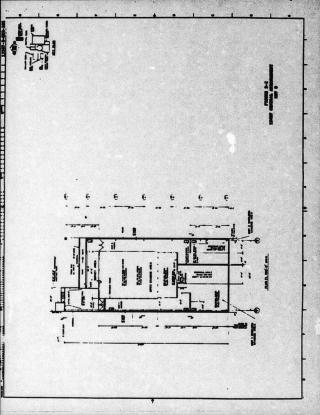
2.4.3 Removal of Packages

When a package is removed for shipment, the reverse of the procedure described in the previous section will be followed.

TABLE 2-1
DESIGN STORAGE REQUIREMENTS

Unit	Quantity (per month)	Container/ Trash Type	Rediction Level
1	37	55 gal drum/compacted trash	up to 50 mrem/hr
1	19	55 gal drum/compacted trash	50 to 100 mrem/hr
1	15	55 gal drum/compacted trash	100 to 200 ares/hr
1	4	55 gal drum/compacted trash	200 - 400 mrsm/hr
1	1	4'x4'x7' box/compacted trash	up to 200 mrem/hr
1	10	50 ft ³ liners/solidified evaporator bottoms	200 - 500 arem/hr
2	9	55 gal drum/solidified radiac waste	up to 100 arem/hr
2	16	55 gal drum/compacted trash	0 to 1 mrem/hr
2	6	55 gal drum/compacted trash	1 to 2 mrem/hr
2	11	55 gal drym/compacted trash	2 to 5 mrem/hr
2	9	55 gal drum/compacted trash	5 - 20 mrem/hr
2	5	55 gal drum/compacted trash	20 - 100 mrem/hr
2	2	55 gal drum/compacted trash	100 - 500 mrem/hr
2	1	55 gal drum/compacted trash	500 - 1000 mrem/hr
2	1	55 gal drum/compacted trash	1000 - 2000 mrem/hr
2	2	4'x4'x7' LSA boxes	0 - 1 mrem/hr
2	2	4'x4'x7' LSA boxes	1 - 2 mrem/hr
2	3	4'x4'x7' LSA boxes	2 - 10 mren/hr
2	3	4'x4'x7' LSA boxes	10 - 20 ares/hr
2	3	4'x4'x7' LSA boxes	20 - 100 mrem/hr
2	1	4'x4'x7' LSA boxes	100 - 200 mrem/hr





3.0 TECHNICAL EVALUATION

This section summarizes the licensing issues which were considered in the design of the ISMMT. These issues deal with the expected performance of the facility during sormal operation and various design basis events.

3.1 Licensing Issues

The licensing issues associated with the operation of

the ISWSF are:

- Demonstrating compliance with 40 CFR Part 190 with respect to offsite doses.
- Demonstrating compliance with 10 CFR Part 20 with respect to ensite dose limits.
- c. Demonstrating that the design basis events for the facility have been properly considered. The design basis events for this facility are high winds, OME, fire, and flooding.
- Demonstrating compliance with the principles of ALARA.

Each of these issues is addressed in the following

sections.

Dose Assessment

The ISWNF is designed so that during normal operation (1) the requirements of 40 CFR Part 190 are met at the site boundary and beyond, and (2) the dose rates at the boundary of the restricted areas conform to 10 CFR, Part 20, paragraph 105 (b)(2). This paragraph requires that the radiation levels in unrestricted areas be such that if an individual were continuously present in the area for seven consecutive days, he would not receive a dose in acress of 100 millirem (0.6 mrem/hr). The consequences of design basis events have been evaluated to assure that public use of areas beyond the exclusion areas is not interrupted or restricted.

This section presents the analyses that demonstrate the above objectives are met.

3.2.1

Off Site

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3.2.1.1 Normal Operation

The total annual offsite dose from the site to any individual is limited to 25 mrem by 40 CFR Part 190. The nearest site boundary for the ISWSF is the mormal high water mark on the east bank of the island. As applied to the site boundary, the 40 CFR Part 190 limits equate to a 0.3 smm/hr does rate based on a 67 hr/ye occupacy (Note 2) with an 80 percent contribution factor (80 percent of the total 25 smm). As explained in Section 3.2.2 the does rute at the feace inside the site boundary, and approximately 240 feet from the IEME, in ablew 0.6 smm/hr. The does rate at the site boundary at the normal high water line of the freew will be much less lim the 0.3 smm/hr ellowship, due to the shielding effect of the flood protection dibs.

In addition to satisfying 40 CFR Part 190 at the site boundary an analysis was performed to determine the dose resulting from the IBMF at the nearest residence. The dose at the nearest residence, located approximately 1550 feet EME of the facility, was determined to be 13 mrsn/y.

A general purpose game ray scattering code was used to determine the annual dose from direct and scattered radiation at the scattering the scattering program," described in Los Alamos Scientific Laboratory publication LA 5176, dated Jume 1973.

The calculation of the dose rate at the mearest residence included the following considerations:

- a. The ISWSF was assumed to contain the waste generated in six months at the monthly generation rates given in Table 2-1.
- b. The predominant radionuclide encountered in the Unit 2 containment, Cesium-137, was assumed to be the source of radiation in all waste packages.
- c. The factor of 0.7 specified in Regulatory Guide 1.109, Revision 1, was used to account for shielding and occupancy characteristics at the nearest residence.

3.2.1.2 Design Basis Events

Design basis events considered were high winds, an operating basis earthquake, a fire, and flooding.

3.2.1.2.1 High Winds

From the THI-2 FRAN the design wind velocity, based on the 100-year recurrence interval, is 80 miles per hour at 30 feet above grade. A review of the waste packages in the 18MS resulted in the determination that the only waste packages that may move when subjected to the design basis wind were the drums of compacted trans located in the open staging areas. It was determined that a single 35-gallon drum weighing less than 250 pounds might move under design wind conditions.

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Note 2. Regulatory Guide 1.109, Rev. 1, Table E-5 Page 40--Recommended values for the maximum exposed individual in lieu of site-specific data.

Host draws are expected to weigh more than 250 pounds. As noted in the "Recovery Quarterly Progress Report for the Period Ending September 30, 1980," the average weight of 55-gallon drums containing compacted trash is 315 pounds. It was determined that drums weighing less than 250 pounds can be strapped together in groups of four, so that their total weight is greater than 600 pounds, thus preventing their movement under high wind conditions.

Administrative procedures will be written to assure that drums will be heavy enough to prevent their movement by design wind forces.

Although the movement of drums in the unshielded portions of the ISWSF will be precluded as noted above, an analysis of the radiological consequences of high wind conditions was made. The resulting maximum dose to the public from the postulated sirborne release was less than 0.01 arem for the inhalation pathway. The following considerations were made in this analysis:

- All drums containing compacted trash in the unshielded portions of the ISWSF were assumed to be damaged by the high wind forces.
- The predominant radionuclide encountered in the Unit 2 containment, Cesium 137, was assumed to be the source of radiation in all waste packages. Approximately 12 curies of Cesium 137 are estimated to be contained in the drums of compacted trash in the unshielded portion of the ISWSF. Since Strontium 90 is also present in the containment, the drums were assumed to contain an additional 1.2 curies of strontium.
- A release fraction of 10-4 of the contents of the damaged drums was assumed based on extrapolation of data presented in "Environmental Survey of Transportation of Radioactive Materials to and from Muclear Power Plants," December 1972.
- The release was assumed to occur over a one-hour period.
- An atmospheric dilution factor of 2.4 x 10-8 sec/m3 was used, based on an 80 mile per hour wind and a distance of 1150 feet from the ISWSF to the mearest boundary of the exclusion area. Stability Class D conditions were assumed with no credit taken for building wake effect.

3.2.1.2.2 Operating Basis Earthquake (ORE)

In the event of an OBE, the ISWSF may collapse; however, the radioactive waste packages would remain in the general area of the facility. The resulting maximum dose to the public from a postulated

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airborne release would be less than 0.03 mrem for the inhalation pathway. The following considerations were made in this analysis:

- All drums containing compacted trash and all LEA boxes in the facility were considered as a potential source of an airborne release.
- The estimated content of these drums and boxes was 81 and 8.1 curies of Cesium 137 and Strontium 90, respectively.
- A release fraction of 10⁻⁶ of the contents of the drums and bones was assumed, based on the data presented in "Ravironmental Survey of Transportation of Radioactive Haterials to and from Buclear Power Plants." December 1972.
- The atmospheric dilution factor of 8.1 x 10⁻⁴ sec/m² was used, based on a Stability Class F, 1 m/sec wind speed, and 1150 feet to the searest boundary of the exclusion area. Ho credit was taken for the building wake effect.

3.2.1.2.3 Fire

radioactive material. This is based on having all the radioactive material in his is based on having all the radioactive material in sealed metal containers or fixed in place such that radio-nuclides cannot become afroorms. In addition, the amount of combustible material, the wooden pallets and small amounts of electrical cable, exposed to an ignition source is insufficient to burn through a container. Also, based on available information regarding the contents of the waster parkages, spontaneous combustion within a container will not occur.

3.2.1.2.4 Flooding

The Three Hile Island site is protected against a design flood of 1,100,000 cfs flow in the Susquehanns River. This protection is furnished by the site dike, which has a minimum elevation of 904 feet along the southern end of the island. In the event of a design flood, which is equivalent to a river level of approximately 300.5 feet, the drainage culvert gate at the southeast dike will close, isolating the site storm drain system from the river. Consequently, the TMI site design flood will have no adverse impact on the ISMF.

In the event of a probable maximum flood (PMF), the river flow rate will slowly increase to the calculated maximum of 1,625,000 cfs. As the river level increases it will overtop the south dike. The water level on the island will then rise to a maximum PMF flood beight of 300.5 feet. As noted in Figure 2.4-7 of the TMI-2 FMAR, an advance warning of at least 36 hours will precede the arrival of FMF.

The ISMST is not protected against the PMS; therefore, the ISMST will be immediated in the very unlikely event a PMS occurs. The following discussion addresses the possible offsite releases of redisactive materials that could result from subsergence of redisactive waste drums and boxes.

Since the waste packages are scaled and ready for offsite shipment, they will resist user intrusion. Should the waste packages lesh, releases would be minimal due to the absence of a driving force for release secret for diffusion of radionacides in water. Therefore, in light of the extremely low probability of occurrence of the PMF (recurrence interval greater than 100 years) and the expected maintal leakage into the waste packages, the design of the ISMMF regarding flooding is considered to be adequated.

3.2.2 On Site

The dose rates outside the restricted areas surrounding the ISVSF were calculated to ensure that the values are less than the 0.6 eres/hr in accordance with 10 CFR Part 20. This was dose by calculating the game dose rates from a planar source to a point at a given distance from the source.

The major assumptions made in the performance of this analysis were:

- a. The only contributing isotope was Cesium-137.
- All waste packages were at the maximum contact dose rate given in Table 2-1.
 - c. The facility was assumed to contain the waste generated in six months, based on the generation rates given in Table 2-1.

The resulting dose at the outer fence surresseding the ISWSF and outside the switchyard enclosure is calculated to be less than 0.6 sures/hr. These dose rates have been determined to be less than 0.6 men/hr based on the information presented in Table 2-1. In order to allow for deviations from this list, a redistion survey will be performed whenever the quantity or arrangement of packages in the ISMSF is significantly altered to ensure that the dose rate at any given point outside the restricted area does not exceed 0.6 mem/hr.

3.3 ' Occupational Exposures

Use of the ISWS will result in occupational radiation exposure to personnel. The operational and maintenance activities to be performed in the facility have been evaluated to determine the length of time workers will be exposed to a radiation environment. This information has been combined with expected radiation fields in the ISWS to arrive at a projected annual exposure of from 17 to 22 mear-wen for this facility. Of this exposure, approximately 80 percent is attributable to radioactive wester originating in Unit 1.

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3.3.1 Design Features

Several design provisions have been included in the ISWSF to minimize occupational exposures. These provisions include segregation of waste with higher radiation levels from those with lower radiation levels, use of shielding, and other provisions as noted below.

The arrangement of the ISWSF allows containers to be stored in the low radiation (unshielded) sections of the facility without entering the higher radiation (shielded) sections. The shield wall between the truck loading/unloading area reduces the dose rate in this area from the material in storage.

A roof has been provided for the facility to minimize the intrusion of rain water which must be collected and sampled prior to disposal. The sumps have been designed so that the shielded areas need not be entered to pump the sumps.

Location of the forklift truck aisles on the outside of the facility rather than using a single central aisle results in a lower radiation field at the aisle.

3.3.2 Man-Rem Estimate

The duration of activities occurring in the ISWSF was estimated by considering the number of radioactive waste packages to be placed in the facility. Factors considered in the analysis of time spent in the radiation area included the following:

- a. 55-gallon drums are handled by an unshielded forklift in groups of four drums on a single pallet. The drums are stored on the pallet.
- b. LSA boxes and the 50 ft3 containers are handled one at a time by the forklift.
- c. The speed of the forklift was assumed to be three miles per hour except when maneuvering to pick up or store a load.
- d. Approximately one-half the time the forklift is in operation it is not carrying a load. This accounts for the return trip to or from the loading/unloading area to the staging areas to pick up another load.
- e. Two forklift breakdowns per year in the radiation areas were assumed.
- f. Allowances for time spent in the radiation area by other than the forklift operator were made to account for the shipment vehicle driver, health physics technician, and a laborer to assist the forklift operator.

g. An allowance has been made for relocating containers within the facility.

The radiation fields in which the activities in the IBWN occurred were estimated using the number of radioactive west packages in the facility, and the dose rate of each package. Factors considered in the determination of the radiation fields included the following:

- a. The LSA boxes were assumed to be planar sources, with the dose calculated on a perpendicular to the plane at the desired distance.
- For cylindrical containers, the source was modeled as an infinite cylinder and only cylindrical spreading was assumed.
- c. No credit was assumed for the shielding effect of the content of one container on an adjacent container except in the case of solidified waste in 50 ft³ liners.
- d. The ISWSF was assumed to contain a six-month inventory of containers at all times.

The area radiation levels calculated for the various areas in the ISWSF are given in Table 3-1.

The man-rem susessment combined the radiation fields described above with each of the handling, maintenance, and whicle survey activities. The evolutions evaluated included transit of a loaded webicle from Unit 1 or Unit 2 to the ISMST, placing the containers storage, removing the containers from storage to the shipment webicle at a later point in time, and a health physics survey of the shipment webicle.

Assuming that the man-rem exposures from the ISWSF activities control the number of workers required to conduct material handling operations, the following approximate number of personnel would be required for the operation of this facility during the year:

Function	Number of Workers	Dose per Worker
Health Physics Technicisms	.1	.5 res
Forklift Operators	4	4 rem (mex.)
All other functions (laborers, truck drivers, maintenance personnel)	l equivalent worker	5 rem total

TABLE 3-1

AREA RADIATION LEVELS WITH SIX HOWTHS DESIGN BASIS INVENTORY

Area	Redistion Level (area/hr)
Survey Area	0.5
Open Staging Area	
Unit 2 LSA boxes	60
Unit 2 drums	180
Unit 1 drums	180
Shielded Staging Area	
Unit 1	1600
Unit 2	1170

COMPARISON WITH PROGRAMMATIC ENVIRONMENTAL IMPACT STATEMENT (PRIS)

Section 9.2.1.1 of the FBIS describes a facility for the temporary storage of certain low level radioactive wastes. The contents of the facility are given in Table 4-1. The radiation levels at the fence aurrounding the facility will be less than 0.6 area/hr. This facility is judged in Section 9.5.1.2 of the FBIS to have negligible surionmental exposures to the general population.

There are some minor differences between the ISWSY described in this report and the facility described in the FRIS. These differences are primarily in the number of containers to be stored in the ISWSY. Table 4-1 contains the design basis contents of the ISWSY. Table 4-1 contains the design basis contents of the ISWSY. However, as shown in this report, the ISWSY will result in mealiatible environmental genousures to the seneral population.

TABLE 4-1

CONTENTS OF STAGING PACILITY

5.0 BAFETY EVALUATION

10 CFR 50, paragraph 50.59, "Changes, Tests, and Experiments," permits the holder of an operating license to make changes to the facility provided the change does not involve a modification of the plant technical specifications and the change is determined not to be an unreviewed safety question. As summarized below, the operation of the IBMSF nother requires a modification to the plant technical specifications nor is it deemed to be an unreviewed safety question as defined in 10 CFR 50, paragraph 50.59.

5.1 Technical Specifications

There are no Recovery Technical Specifications regarding the storage of solid or solidified radioactive wate. The proposed change does not require any additional technical specifications in order to satisfy the licensing basis of the plant. Therefore, the operation of the ISWSF does not require changes to the existing technical specifications.

5.2 Unreviewed Safety Question

The operation of the ISWSF will not increase the probability of occurrence or the consequences of an accident or malfunction of equipment important to safety previously evaluated in the safety analysis report. This is based on the location of the facility being such that there is no interface with existing safety-related equipment or structures.

The possibility of an accident or malfunction of a different type than any evaluated previously in the safety analysis report will not be created by the operation of the ISMST. This is due to the passive nature of the facility and the fact that all the radio-active waste is in either a solid/solidified or fixed form.

As stated in Section 5.1, the operation of the ISWSF will not result in a reduction in the margin of safety as defined in the basis for any technical specification.

Based on the above, the operation of the ISWSF is deemed not to be an unreviewed safety question as defined in 10 CFR 50, paragraph 50.59.