October 27, 1998

LICENSEES: Saxton Nuclear Experimental Corporation (SNEC) and
GPU Nuclear Corporation (GPUN)

FACILITY: Saxton Nuclear Experimental Facility (SNEF)

SUBJECT: SUMMARY OF MEETING BETWEEN SNEC, GPUN, AND THE NRC STAFF

On October 5, 1998, representatives of the NRC staff met at NRC headquarters with representatives of SNEC and GPUN, the licensees for the SNEF. Enclosure one is a list of meeting attendees. Enclosure two is the briefing material provided by the licensees at the meeting.

The purpose of the meeting was to inform the staff of details associated with the large component removal program. The licensees are making final preparations for the removal of the reactor vessel (RV), pressurizer (PZR), and steam generator (SG) from the containment vessel (CV) and the shipment of these components by road and rail to South Carolina for final disposal. The RV and SG are scheduled to be removed from the CV the week of October 12, 1998, and the PZR is scheduled to be removed the week of October 19, 1998. Plans are to ship the SG and PZR from the site to a rail siding (about 28 miles by road) in Huntington, Pennsylvania on November 2, 1998, and the RV on November 3 - 4, 1998. The components are planned to be shipped by rail to the disposal site in South Carolina on November 16 - 19, 1998.

The licensees discussed the status of the facility and reviewed in detail the process for removal of the large components from the CV, the preparation of the components for shipment, and the shipment. The licensees described their public communications activities at Saxton including efforts to inform the public of proposed activities along the road route of the shipment and at the railroad siding in Huntington. A presentation was also given on radiation protection efforts related to the large component removal project.
A member of the public attending the meeting urged the NRC staff to monitor the large component removal program closely. The NRC will be present on site for major activities. The exact schedule will be determined by licensee activities and performance.

Docket No. 50-146

Enclosures: As stated

cc w/enclosures: See next page

Sincerely,
ORIGINAL SIGNED BY: TED MICHAELS for
Alexander Adams, Jr., Senior Project Manager
Non-Power Reactors and Decommissioning
Project Directorate
Division of Reactor Program Management
Office of Nuclear Reactor Regulation

CONTACT: Alexander Adams, Jr., NRR/PDND
415-1127

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NAME	EHylton		AAdams		SWeiss	
OFFICE	10/20/98		10/26/98		10/27/98	

OFFICIAL RECORD COPY DOCUMENT NAME: G:\SECY\ADAMS\146MEET1.SUM

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

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Sincerely,

Alexander S. Adams for

Alexander Adams, Jr., Senior Project Manager
Non-Power Reactors and Decommissioning
Project Directorate
Division of Reactor Program Management
Office of Nuclear Reactor Regulation

Docket No. 50-146
Enclosures: As stated
cc w/enclosures: See next page

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Mr. Larry Sather, Chairman
Huntingdon County Commissioners
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Baltimore District
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President Pro-Temp Senate of
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University Park, Pennsylvania 16802-2301

MEETING BETWEEN THE NRC STAFF AND SAXTON

October 5, 1998

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Al Freitag	Bechtel	301-228-6293
Ernest Fuller	Citizen	814-928-5416
Michael P. Murphy	PA, DEP/BRP	717-783-9734
Rob Sisk	Westinghouse Waltz Mill Site	724-722-5065
William Heysek	GPU Nuclear	717-948-8191
Rodger Granlund	Penn State	814-863-0902
James A. Fockler	Saxton Citizens T.F.	814-635-2083
Linda Perrett	Raytheon Nuclear	301-961-4894
Rick Edwards	Framatone Technologies	301-230-2100
Sylvia Morris	GPU Nuclear	814-635-3382
G.A. Kuehn	GPU Nuclear	717-948-8720
Thomas F. Dragoun	USNRC	610-337-5373
Seymour H. Weiss	USNRC	301-415-2170

Enclosure 1

GPU NUCLEAR

Enclosure 2

SNEC Large Component Removal Project

NRC Meeting

October 5, 1998

GPU NUCLEAR

SNEC Large Component Removal Project

- Agenda

  - Introduction - G. A. Kuehn
  - Overview of LCRP - R. Holmes
  - ALARA, Env.Monitoring, E-Plan - A. Paynter
  - Communications Plans - S. Morris

GPU NUCLEAR

SNEC Large Component Removal Project

- Introduction - G. A Kuehn
  - Safety is our first consideration
  - All in-scope work controlled by written procedures (50.59 reviews)
  - Independent oversight by various groups
    - NSA
    - QV
    - RSC
    - NSCC
    - GORB
    - Ind. Inspector
  - Use of readiness reviews

GPU NUCLEAR

SNEC Large Component Removal Project

- Current facility conditions
  - All nuclear fuel removed from the site
  - Phased decommissioning started in 1986
    - All structures except the Containment Vessel (CV) have been demolished
    - Characterization of the facility complete
    - Decommissioning Activities in Progress
    - Current Work to Support LCRP
    - Objective is license termination mid 2000

GPU NUCLEAR

SNEC Large Component Removal Project

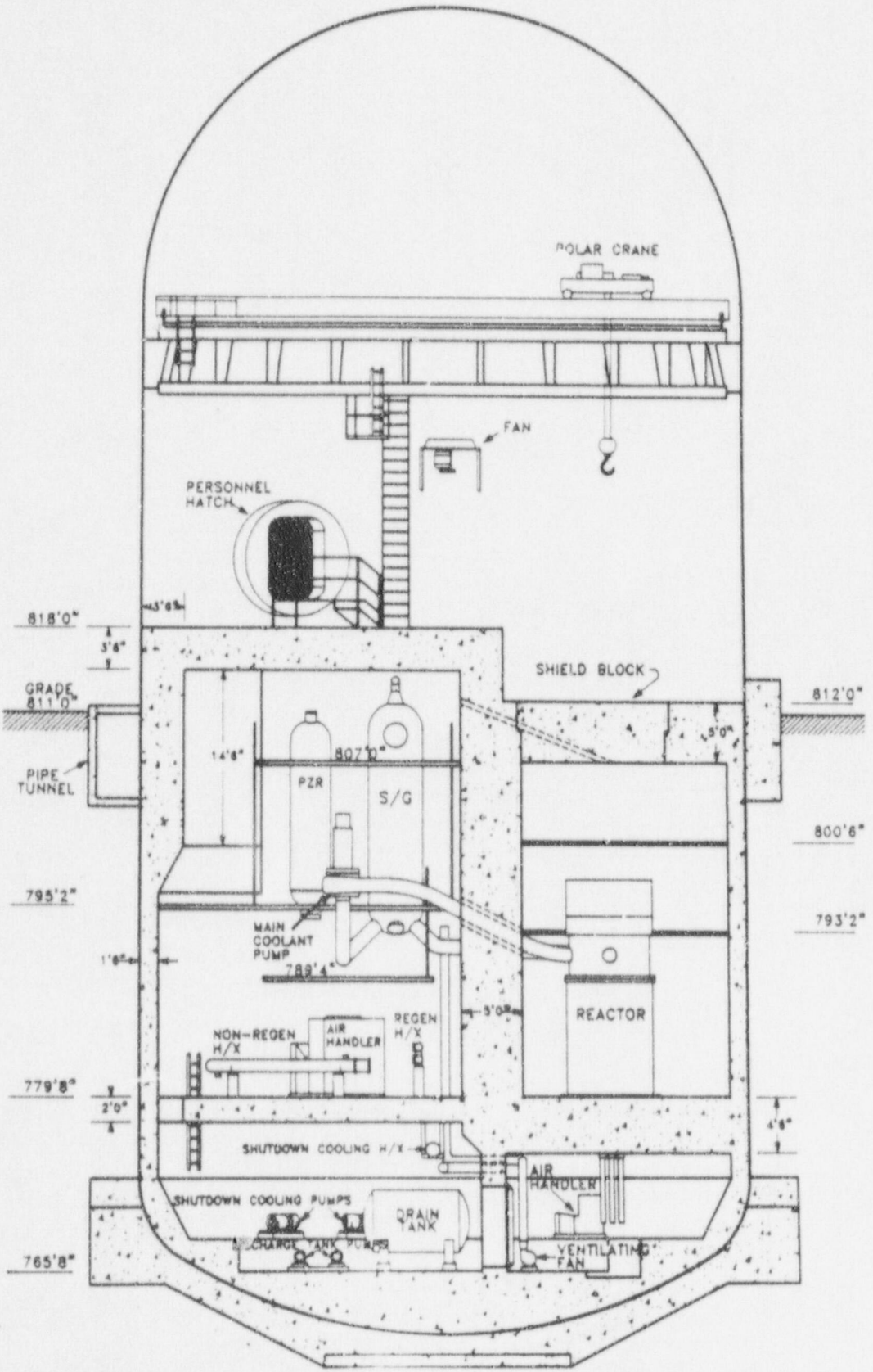
- Large Component Removal Project
  - Remove, prepare, ship and dispose of the three large NSSS components located in the CV
    - Reactor Vessel
    - Pressurizer
    - Steam Generator
  - All three components will be trucked to a rail siding and shipped by rail to the Chem Nuclear facility in Barnwell, SC for disposal
  - Ship November 1998

GPU NUCLEAR

SNEC Large Component Removal Project

- Raytheon - Prime contractor
  - Selected by competitive process
  - Evaluation criteria based on technical approach and experience
- Raytheon Team Members:
  - F. W. Hake, Inc.. - Rigging and Transportation
  - WMG, Inc.. - Waste Classification, Shielding Calcs, USDOT Exemption Prep

Figure 1-4



Containment Vessel, Sectional View
(Looking West)

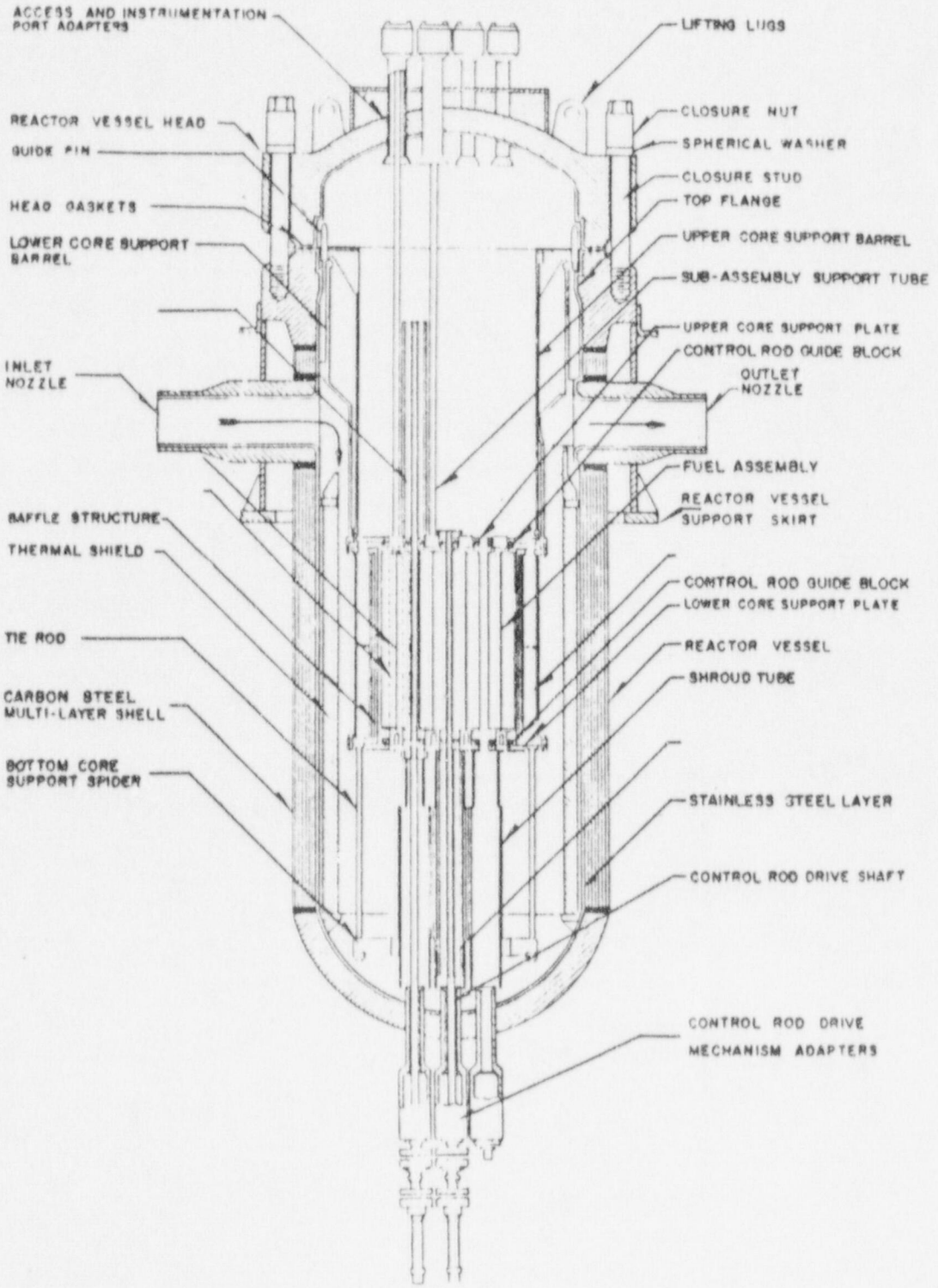
0 1 2 3 4 5
SCALE (FEET)

GPU NUCLEAR

SNEC Large Component Removal Project

- All three components are small and robust compared with a commercial size PWR
- Reactor vessel
  - 5.7' x 18'
  - 5" thick shell
  - 304 SS clad
  - 62 tons

Figure 1-5



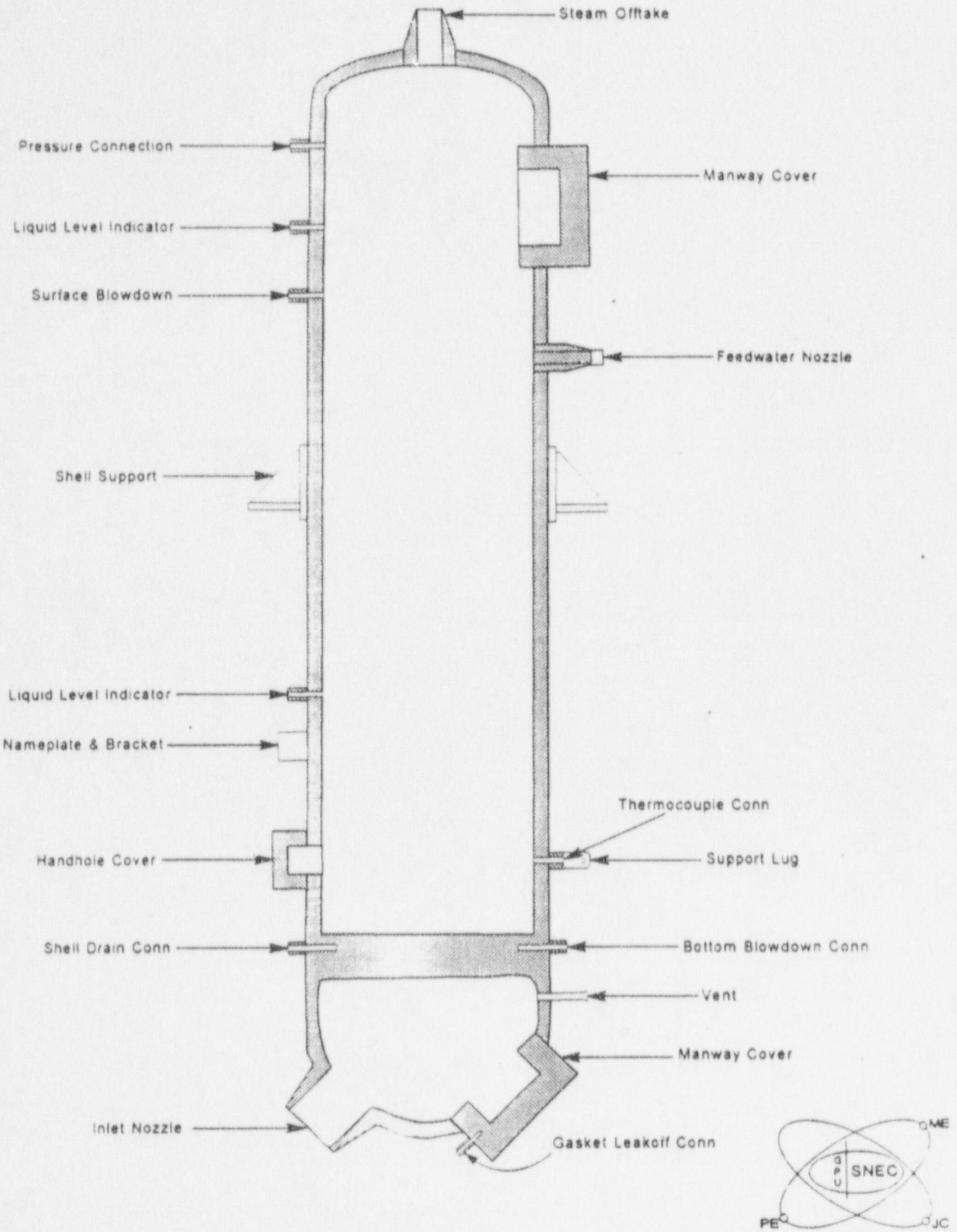
Re[illegible] Cross Section

GPU NUCLEAR

SNEC Large Component Removal Project

- All three components are small and robust compared with a commercial size PWR
  - Pressurizer
    - 4' x 18'
    - 3" thick shell w/ 304 SS clad
    - 12.5 tons
  - Steam Generator
    - 4" x 20"
    - 3" CS shell; lower head, tubes & tube sheet - 304SS
    - 27 tons

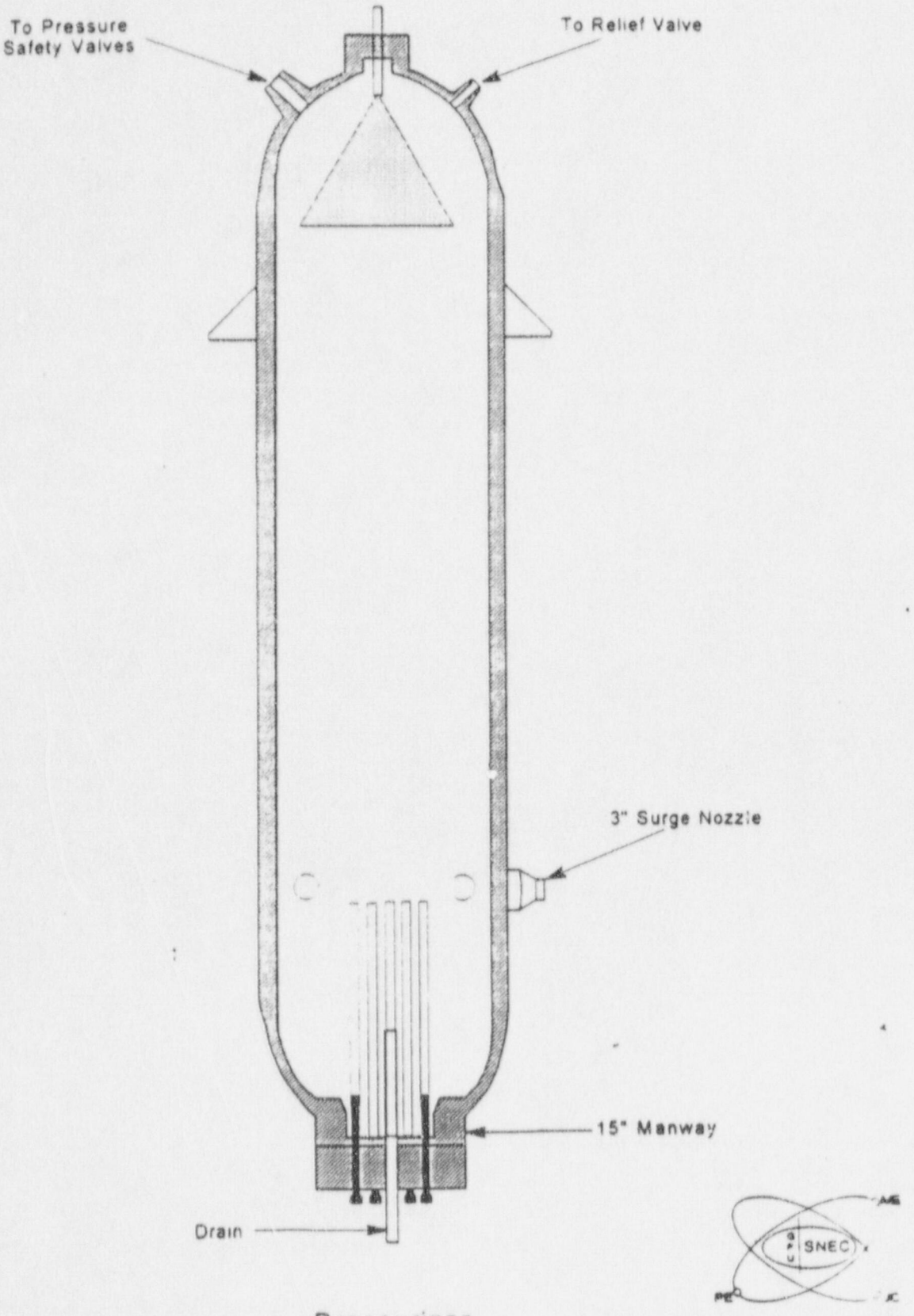
Figure 2.2-1



Steam Generator

NO SCALE

Figure 2.2-2



Pressurizer

NO SCALE

GPU NUCLEAR

SNEC Large Component Removal Project

- Waste classification
  - All three components are LSA
  - RPV
    - 1285 Curies
      - 1282 - Activation (62% Ni-63, 35% Co-60)
      - 3 - Loose internal (49% Ni-63, 24% Pu-241)
    - LSA III
    - Class C Stable (NRC accepted blending of LCGB under BTP)

GPU NUCLEAR

SNEC Large Component Removal Project

- Waste classification
  - Steam Generator
    - 1.06 Curies (44% Ni-63, 17% Co-60, 14% Cs-137, 14% Pu-241)
    - >Type A SCO-II
    - Class A Stable
  - Pressurizer
    - 0.755 Curies (70% Ni-63, 14% Co-60, 11% Pu-241)
    - >Type A SCO-II
    - Class A Stable

GPU NUCLEAR

SNEC Large Component Removal Project

- Regulatory Process
  - Ship all 3 vessels under 49 CFR 173 as IP-2 packages or equivalent
  - This avoids use of a "Type B" container for the RPV
    - $avings
    - Less time required for approval
    - More flexible
  - S/G & Pzr shipped under NRC GL 96-07

GPU NUCLEAR

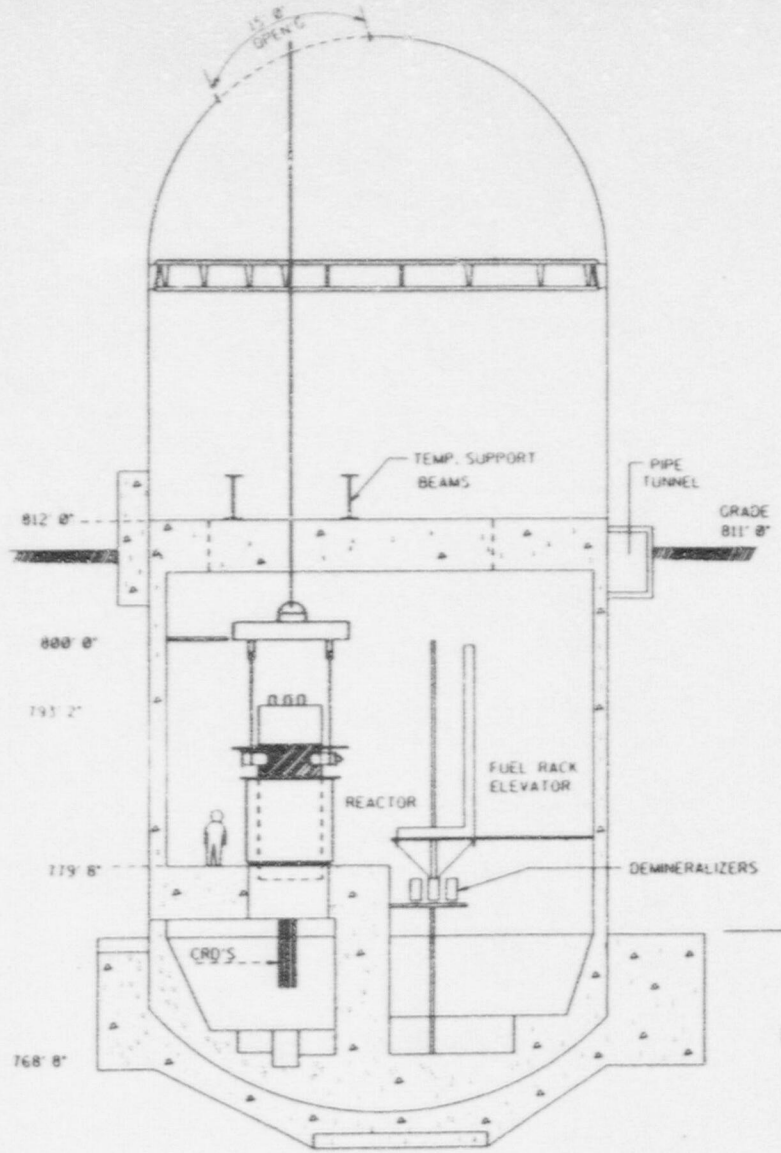
SNEC Large Component Removal Project

- Regulatory Process
  - Submitted an exemption request to USDOT:
    - Exemption Requests per 49CFR107.105
      - One for RPV, one for S/G & Pzr.
    - Transportation System Description
    - Transportation Plan
    - Emergency Response Plan (HASP)
    - Characterization Reports
    - One Foot Drop Calcs.

GPU NUCLEAR

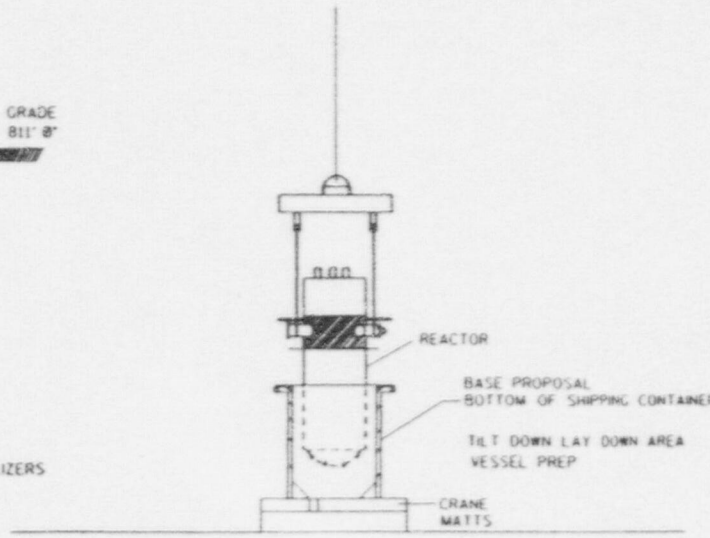
SNEC Large Component Removal Project

- Reactor Vessel Package
  - Prepare the Vessel
    - Cut and weld all penetrations
    - Grout the RPV internals
    - Fix external contamination
  - Place RPV inside shipping cannister
  - Grout the entire package
  - Ship as IP-2 Package under USDOT 49 CFR 173



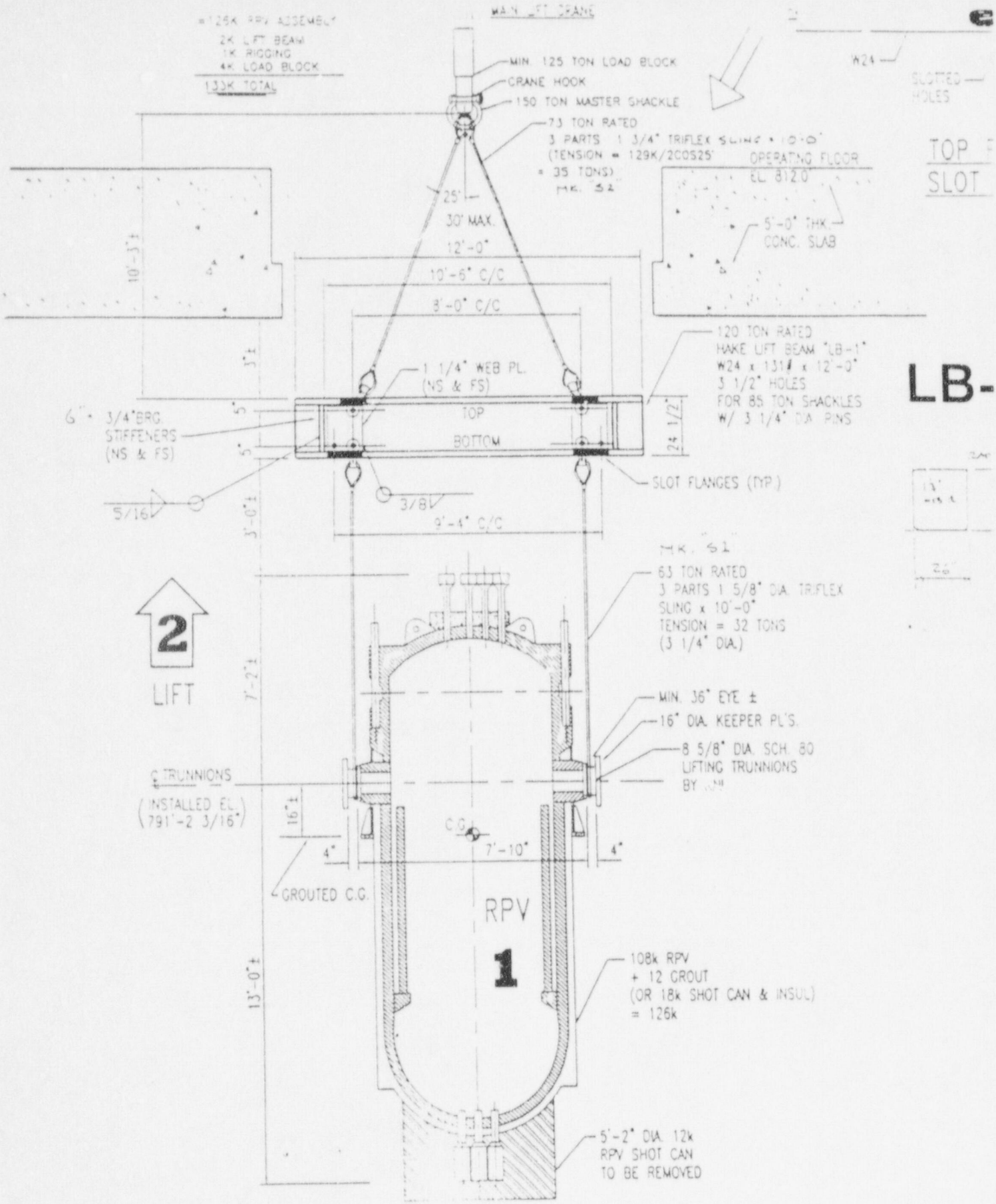
CONTAINMENT VESSEL
SECTIONAL VIEW

LOWER CONTAINER SET



RAYTHEON ENGINEERS & CONSTRUCTORS, INC.
ENGINEERING DEPARTMENT
Philadelphia, PA

SKETCH-5



INITIAL [illegible] DETAIL

NAL FROM CV   220 Ton MOBILE TRUCK CRANE
city = 154,000 lbs for 34.0 ft. Radius @ 85% of tipping / 360° Rated with 130 ft.
al lattice boom & full 90 kip Ctrwt. with Outriggers fully extended at 23'-0"
elevation = 134 ft. ±   Drift = 30 ft. ±   (Hk. 2 block dist. = 7.5 ft.)

....	= 128,000 lbs	(Grouted or with Shotcan.)	
slings ...	= 2,000 lbs		
....	= 2,000 lbs		
k	= 4,000 lbs		
AD	= 134,000 LBS.	= 87% of Crane Chart Capacity	

FETY FACTOR = 154.0k / (0.85) (134k) = 1.35 at 34 ft. radius

RPV CONTAINER TILT-DOWN
CRANE "A"   220 Ton MOBILE TRUCK CRANE
acity = 255,000 lbs for 26.0 ft. Radius @ 85% of tipping / 360° Rated with 130 ft.
al lattice boom & full 90 kip Ctrwt. with Outriggers fully extended at 23'-0"
elevation = 137 ft. ±   Drift = 80 ft. ±   (Hk. 2 block dist. = 7.5 ft.)

V Cont'r	= 213,000 lbs	(Grouted)	
& slings ...	= 2,000 lbs		
....	= 2,000 lbs		
ck	= 4,000 lbs		
AD	= 221,000 LBS.	= 87% of Crane Chart Capacity	

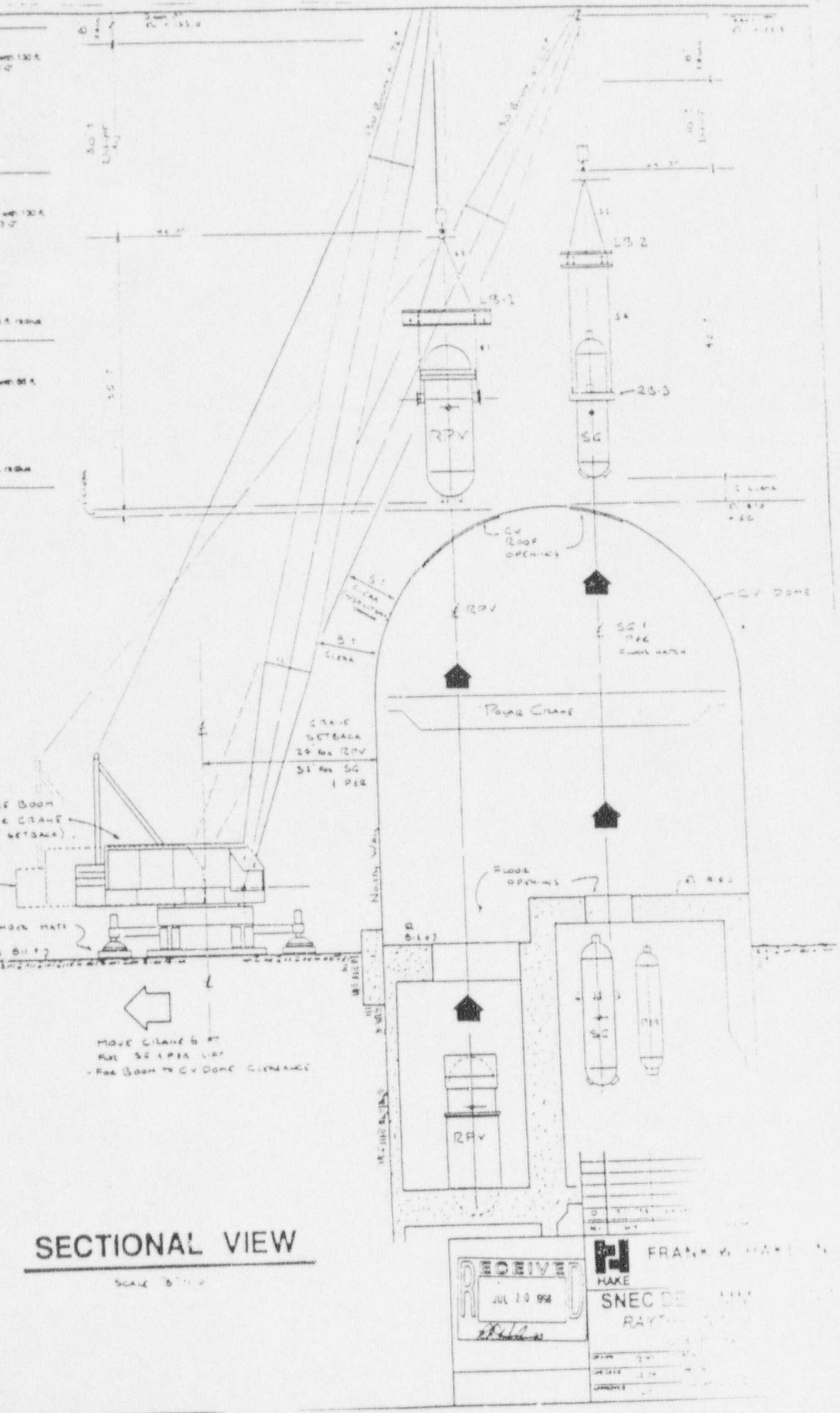
CRANE "A" SAFETY FACTOR = 255.0k / (0.85) (221k) = 1.35 at 26 ft. radius

RPV CONTAINER TILT-DOWN
RANE "B"   100 Ton ALL TERRAIN MOBILE HYDRO CRANE
acity = 86,000 lbs for 22.0 ft. Radius @ 85% of tipping / 360° Rated with 86 ft.
t Ctrwt. with Outriggers fully extended

V Cont'r	= 70,000 lbs	(Max. Tail = 31% of 213 kips)	
& slings ...	= 1,000 lbs		
ck	= 2,000 lbs		
AD	= 73,000 LBS.	= 80% of Crane Chart Capacity	

RANE "B" SAFETY FACTOR = 86.0k / (0.85) (73.0k) = 1.50 at 22 ft. radius

AKE
CONTAINER
DOWN
AT 22 MAX
RADIUS)



Y   220 Ton MOBILE TRUCK CRANE
= for 65.0 ft. Radius @ 85% of tipping / 360° Rated with 130 ft.
& full 90 kip Ctrwt. with Outriggers fully extended at 23'-0"
5 ft. ±   Drift = 80 ft. ±   (Hk. 2 block dist. = 7.5 ft.)

78,000 lbs (Grouted)
2,000 lbs
2,500 lbs
4,000 lbs
83,500 LBS. = 83% of Crane Chart Capacity

R = 70.5k / (0.85) (85.5k) = 1.28 at 63 ft. radius

SECTIONAL VIEW

SCALE 3/16"=1'-0"

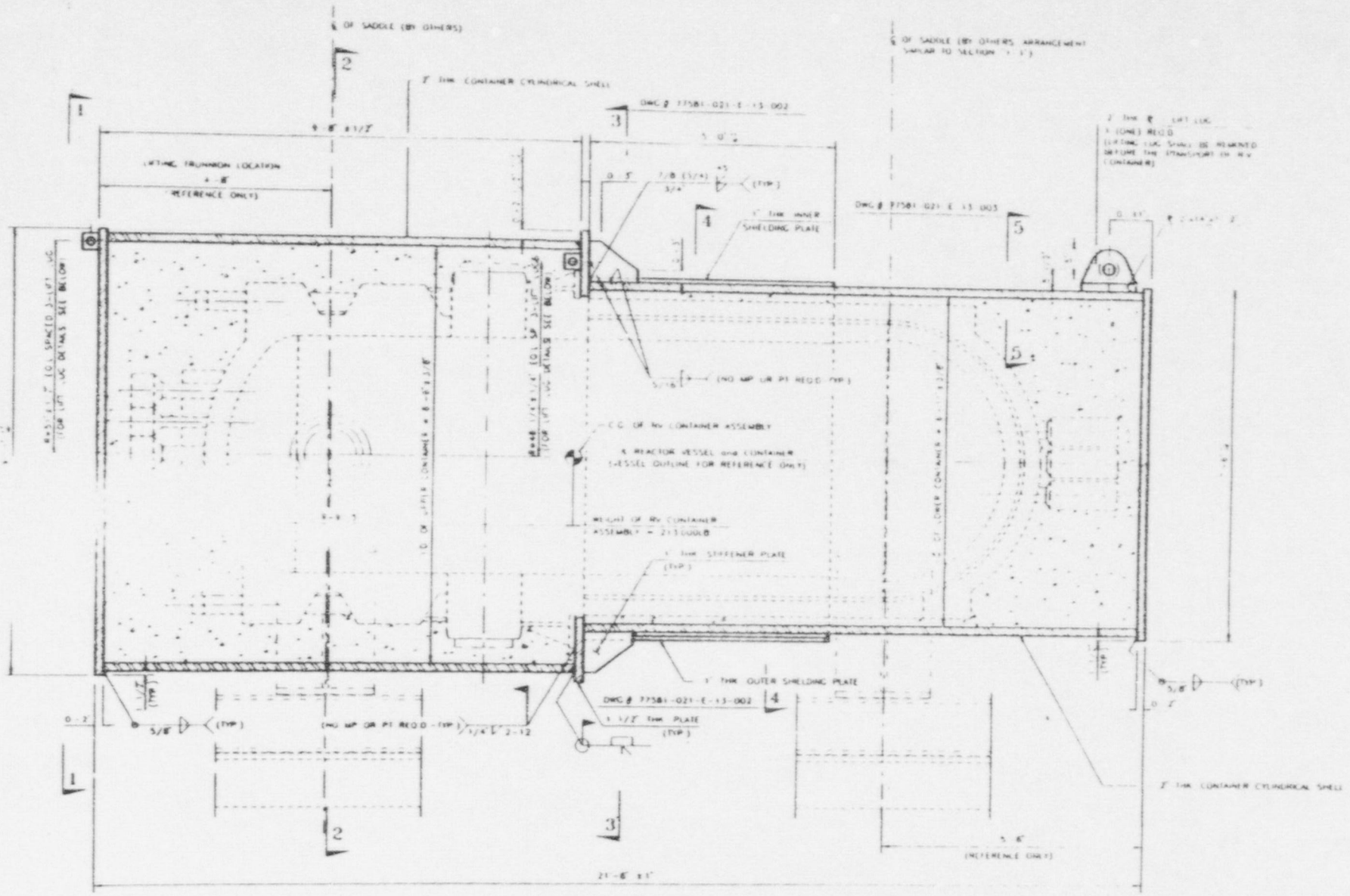


FIGURE 1

REACTOR VESSEL CONTAINER

GPU NUCLEAR

SNEC Large Component Removal Project

- Steam Generator/Pressurizer
  - Prepare the Vessels
    - Remove nozzles and weld penetrations
    - Grout both Vessels
    - Fix external contamination
  - Ship under USDOT 49 CFR 173
  - Equivalent safety to IP-2
  - NRC Generic Letter 96 - 07

GPU NUCLEAR

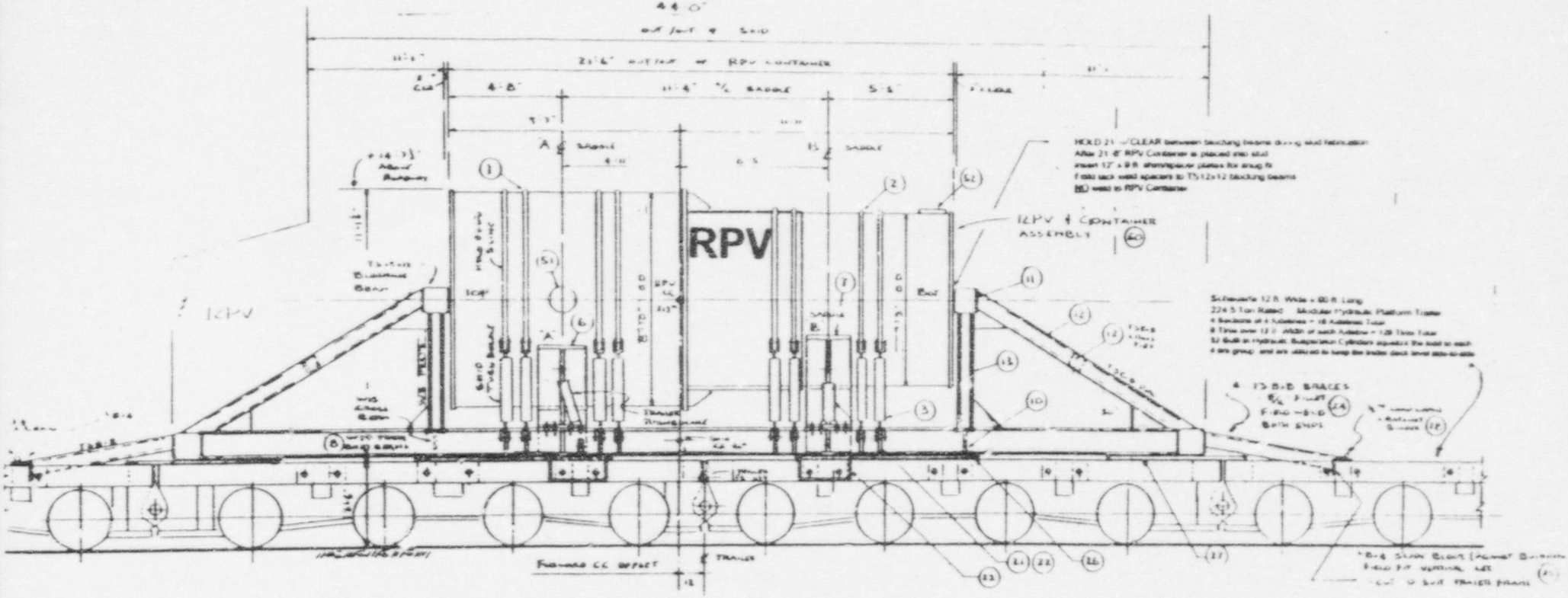
SNEC Large Component Removal Project

- Transportation safety features
  - Road transport:
    - Dry run
    - Speed limited to 5 MPH
    - Transporter conservatively sized to reduce wheel loading
    - Transporter length spreads load out on bridges.
    - Backup tractor will travel with move
    - Transportation Plan

GPU NUCLEAR

SNEC Large Component Removal Project

- Methods of transport to rail siding
  - -- Reactor vessel:
    - Heavy duty transporter with 19 axles
    - Transporter will have a total length of 130 ft.
    - Max. shipping dimension of package 21.5'x11'x11'
    - Package weight 240,000 lbs.



RPV - ROAD TRANSPORT TIEDOWN

FIGURE 4

GPU NUCLEAR

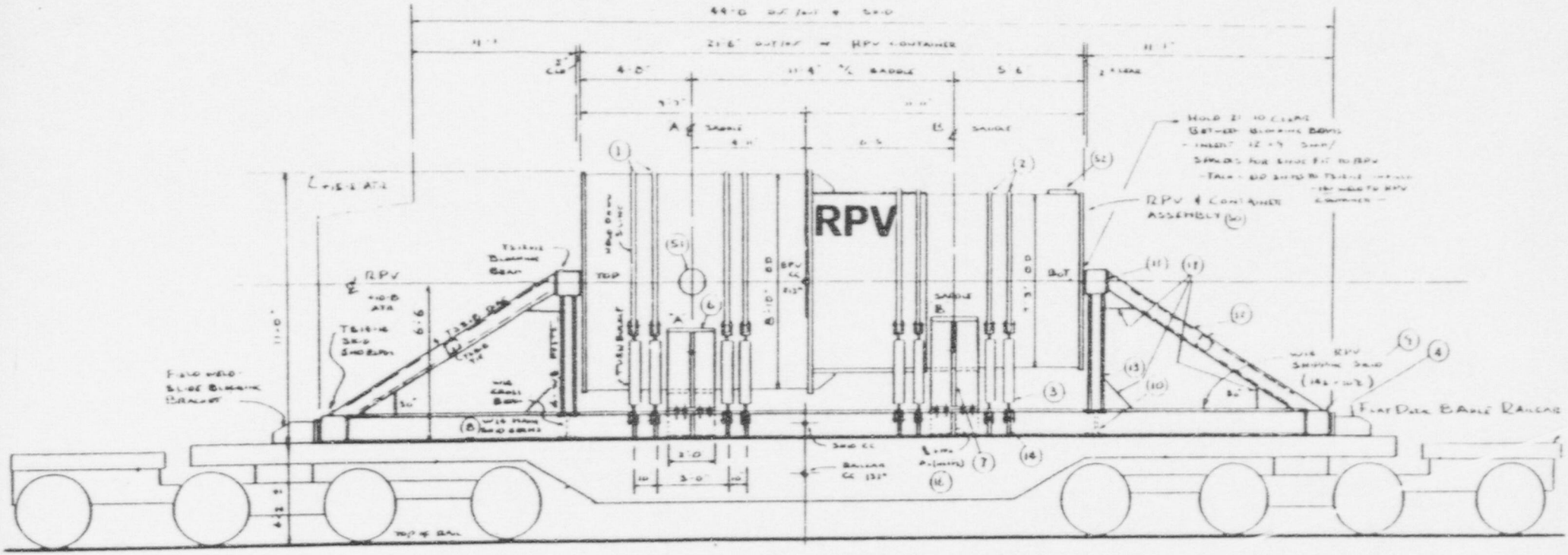
SNEC Large Component Removal Project

- Methods of transport to rail siding
  - Steam Generator & Pressurizer:
    - Heavy duty tractor trailer with 8 axles
    - Maximum package size 21'x9'x9'Steam Generator/Pressurizer
    - Steam Generator Estimated Weight 70,000 lbs.
    - Pressurizer Estimated Weight 40,000 lbs.

GPU NUCLEAR

SNEC Large Component Removal Project

- Transportation safety features
  - Rail transport:
    - Rail car loading 60% of rated capacity
    - Dedicated train with GPUN riders and escorts to assure proper handling
    - Shipment aspects will be in accordance with a Transportation Plan which meets all applicable requirements, agreed to by GPUN & the railroads



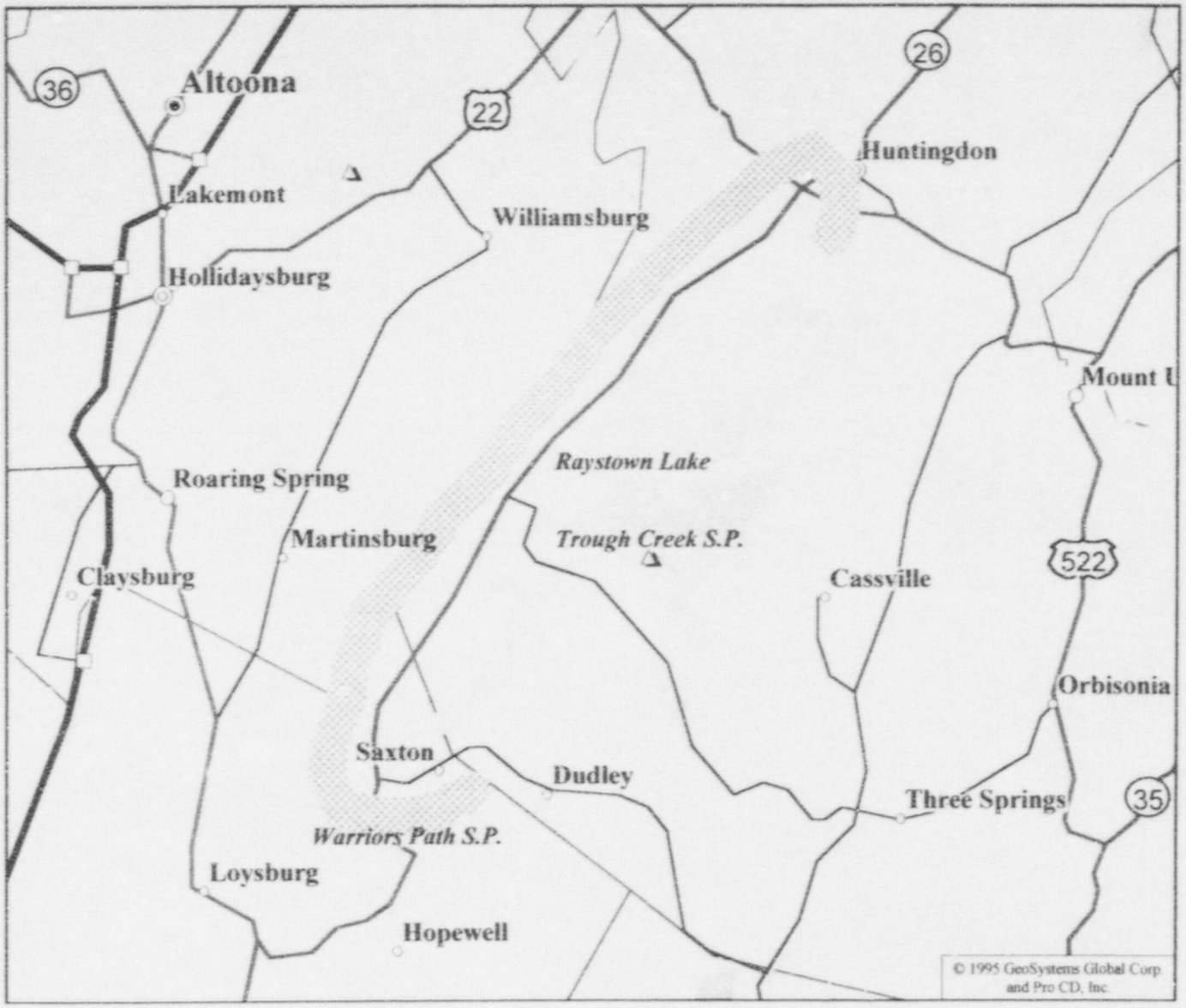
RPV - RAIL SHIPPING SKID & TIEDOWN

FIGURE 7

GPU NUCLEAR

SNEC Large Component Removal Project

- Routing:
  - Exit SNEC site on to Rt. 913 east through Saxton
  - Right on to state Rt. 26 north
  - Rt. 26 north to Huntingdon, PA.
  - Right onto Ridge Rd. rail siding is 1/2 mile on right.
  - The route is twenty eight miles.



Populated Area
Military Land
Park
County Boundary
Water
Minor Road
Secondary Road
Primary Road
Interchange
Point of Interest

GPU NUCLEAR

SNEC Large Component Removal Project

- Route selection:
  - Only one long-span bridge along route, and the bridge is relatively new.
  - There are no steep grades along route
  - There are no sharp corners along route
  - Rail siding has been used for heavy loads in excess of 100 tons
  - There are ample staging areas along route

GPU NUCLEAR

SNEC Large Component Removal Project

Transportation to Barnwell by rail

Conrail:

- Shipment will be by Conrail from Huntingdon, PA to Hagerstown, MD

CSX:

- Shipment will be by CSX from Hagerstown, MD to Barnwell, SC

GPU NUCLEAR

SNEC Large Component Removal Project

- Project Status:
  - Regulatory
    - USNRC concurs with treatment of waste classification issues
      - DWM on lower core guide blocks
      - Transportation on LSA and monolithic structure
    - USDOT indicates exemption issuance is imminent

GPU NUCLEAR

SNEC Large Component Removal Project

- Project Status:
  - PennDOT
    - Route review complete
    - Preliminary review of permits complete
    - Rt. 913 bridge review complete
      - Pre & Post inspection required
      - GPUN will verify

GPU NUCLEAR

SNEC Large Component Removal Project

- Project Status:
  - All penetrations have been cut
  - All penetration welding complete
  - Internal grouting complete
  - Decon of S/G & Pzr in progress
  - Preparation for CV hole cuts underway
  - Rail siding improvements underway
  - Rigging equipment onsite

GPU NUCLEAR

SNEC Large Component Removal Project

- Remaining work:
  - Cut CV holes
    - No airborne generating work when open, vent system running - NRC SER & EA accommodate
    - Temp closure provided
  - Remove RPV shot shield
  - Lift RPV w/ 220 ton crane to intermediate position in CV

GPU NUCLEAR

SNEC Large Component Removal Project

- Remaining work:
  - Prep site roads & bridge
  - Decon/Encapsulate RPV
  - Lift RPV from CV w/ 220 ton crane & load RPV into lower half of cannister
  - Install upper half of cannister - weld
  - Grout cannister

GPU NUCLEAR

SNEC Large Component Removal Project

- Remaining work:
  - Load RPV package onto transporter
  - Transfer RPV package from truck to railcar
  - Paint S/G & Pzr
  - Lift S/G & Pzr from CV w/ 220 ton crane
  - Load S/G & Pzr onto transporter
  - Transfer S/G & Pzr from trucks to railcars

GPU NUCLEAR

SNEC Large Component Removal Project

- Team Approach:
  - Raytheon integrated key personnel
    - Rad Eng and Safety/Rad Protection
    - Project Superintendent
    - Decommissioning Supervisor
    - QC Inspector seconded to GPUN
- QA:
  - Working under SNEC Facility QA Plan
  - Applicable portions of the OQA Plan

GPU NUCLEAR

SNEC Large Component Removal Project

- Safety and ALARA come first:
  - Pre-job briefings
  - ALARA reviews
  - Work controlled by SWIs (written procedures w/ 50.59 reviews)
  - GPUN maintains total control of radiation protection activities
  - Training in unique aspects of SNEC alpha situation

GPU NUCLEAR

SNEC Large Component Removal Project

- Safety and ALARA come first:
  - Transportation Plan (TP) controls all aspects of the truck and rail transport
  - HASP (E-Plan) specifies rad & non-rad safety
  - Driver and train crew briefings
  - Railroads approve TP
  - Advance copies of briefing materials provided to the railroads

GPU NUCLEAR

SNEC Large Component Removal Project

- Schedule:
  - Cut CV holes w/o - Oct.. 12
  - Rig S/G out of CV - w/o Oct.. 12
  - Rig RPV out of CV into canister - w/o Oct.. 12
  - Rig Pzr out of CV - w/o Oct.. 19
  - Ship S/G & Pzr to rail siding - Nov.. 2
  - Ship RPV to rail siding - Nov.. 3 - 4
  - Secure loads to rail cars - Nov.. 3 - 12
  - Train departs - Nov.. 16
  - Train arrives - Nov.. 19

GPU NUCLEAR

SNEC LCRP COMMUNICATIONS PLAN

Public Communications Activities

Sylvia Morris

NRC Meeting 10-5-98

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SNEC LCRP COMMUNICATIONS PLAN

- GPU Nuclear Communications Objective
- Provide Accurate Information on the Shipments of the LCRP
  - Community, Government Officials, Media and Neighbors along the 27-mile route
- Provide Citizens Task Force information

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SNEC LCRP COMMUNICATIONS PLAN

- Communication efforts in the Saxton and Huntingdon areas:
  - Community Relations
  - Local Government Officials
  - Education
  - Media

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SNEC LCRP Communications Plan

- Community Relations Program for the Saxton and Huntingdon
- Saxton Citizens Task Force (CTF)
  - Monthly Public Meetings
  - Provides Input to GPU Nuclear
  - Vehicle for Community Concerns

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SNEC LCRP COMMUNICATIONS PLAN

- Saxton Citizens Task Force
  - Official Advisory Group for Bedford/Huntingdon County Commissioners
  - Open Houses
  - Independent Inspector

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SNEC LCRP COMMUNICATIONS PLAN

- Keeping Public Informed
  - Quarterly Newsletter, "Community Update"
  - Speaking Engagements
  - Public Meetings (Fire halls) Along the Route
  - Meet with County Emergency Coordinators
  - Meet with Pa. State Police in Huntingdon
  - General Public/Media Information Packets

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SNEC LCRP COMMUNICATIONS PLAN

- Communications w/Rail Siding Neighbors
  - Met with Neighbors March, 1998
  - Met with Two Businesses (Fleming Foods and U. S. Sports)
  - Sharing of Radiation/Environmental Monitoring Results
  - Work with County Emergency Coordinators

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SNEC LCRP COMMUNICATIONS PLAN

- Local Government Officials
  - Pa. State Rep. Larry Sather (Huntingdon County)
  - Pa. State Rep. Richard Hess (Bedford County), Legislative Aide Jim Kieffer
  - State Senator Robert Jubelier Office
  - Huntingdon/Bedford County Commissioners
  - Smithfield/Liberty Township Supervisors

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SNEC LCRP COMMUNICATIONS PLAN

- Educational Efforts
  - Poster Contest for SNEC Logo held at Saxton/Liberty Elementary School
  - Contribution to Tussey Mountain High School for Book Covers
  - Senior Physics Class Attend Citizens Task Force Meetings
  - Reuter-Stokes Monitoring Equipment Located at High School.

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SNEC LCRP COMMUNICATIONS PLAN

- Media Outreach Program
  - Coverage from Local Newspapers
    - Pittsburgh Post Gazette
  - Coverage from Local TV Stations
  - Posters in Businesses Along the 27 mile Route to Huntingdon,Pa. (public mtgs.)
  - Informational Packets
  - Promotional Giveaways
  - Press Releases

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SNEC LCRP COMMUNICATIONS PROGRAM

- **SNEC COMMUNICATIONS LCRP EMERGENCYRESPONSE PROCEDURE**
  - Coordinate Media Contact with TMI Public Information Duty Officer in the Event of a Waste Shipping Accident
  - Advance Courtesy Notifications sent to Governors' Designees in Each State on Rail Route
  - GPUN Personnel Will Escort Rail Shipment

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SNEC Large Component Removal Project

- Radiological Controls/Safety:
  - GPU Nuclear / Raytheon Team
    - GPU Nuclear is the lead with on-site assistance from Raytheon
    - Rad Engineering
    - Radiological Controls (GRCS/RCT)
    - Environmental Controls
    - Safety
    - E-plan Support

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SNEC Large Component Removal Project

- Current Radiological Conditions:
  - Reactor Vessel (RV) Dose Rates
    - Max contact: 5 R/hr (small area)
    - 270° Band: 2.5 - 3.0 R/hr
    - General area: 50 - 350 mr/hr
    - Head general area: 5-15 mr/hr

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SNEC Large Component Removal Project

- Current Radiological Conditions:
  - Steam Generator Dose Rates
    - Bowl:
      - Max contact: 30 mr/hr
      - General area: 15 mr/hr
    - Other:
      - Max Contact: 3.0 mr/hr
      - General area: 0.2 - 2.0 mr/hr general area

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SNEC Large Component Removal Project

- Current Radiological Conditions:
  - Pressurizer
    - Max contact: 3.0 mr/hr
    - General area: 0.2 - 1.0 mr/hr

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SNEC Large Component Removal Project

- ALARA:
  - General Practices/Programmatic:
    - Remote tooling
    - Temporary shielding
    - Pre-job briefs
    - Alpha control program requirements
    - ALARA Reviews
    - Radiation Work Permits (RWP)

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SNEC Large Component Removal Project

- ALARA:
  - Reactor Storage Well Controls
    - Access Controls
    - Portable HEPA Ventilation
    - Temporary Shielding
  - Primary Compartment Controls
    - Access controls
    - Portable HEPA ventilation
    - Temporary Shielding

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SNEC Large Component Removal Project

- ALARA:
  - Pipe cutting
    - Use of special cutting equipment/contractor
    - Red system contamination controls

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SNEC Large Component Removal Project

- ALARA:
  - Grouting
    - Remote operation
    - In-side the Containment Vessel (CV)
    - Use of HEPAs

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SNEC Large Component Removal Project

- ALARA: (RV Preps)
  - Closures
    - Nozzle Shielding
  - CRDM Removal
    - Pin and cut
  - Steel Shot Removal
    - From below
  - Encapsulate
    - Spray paint

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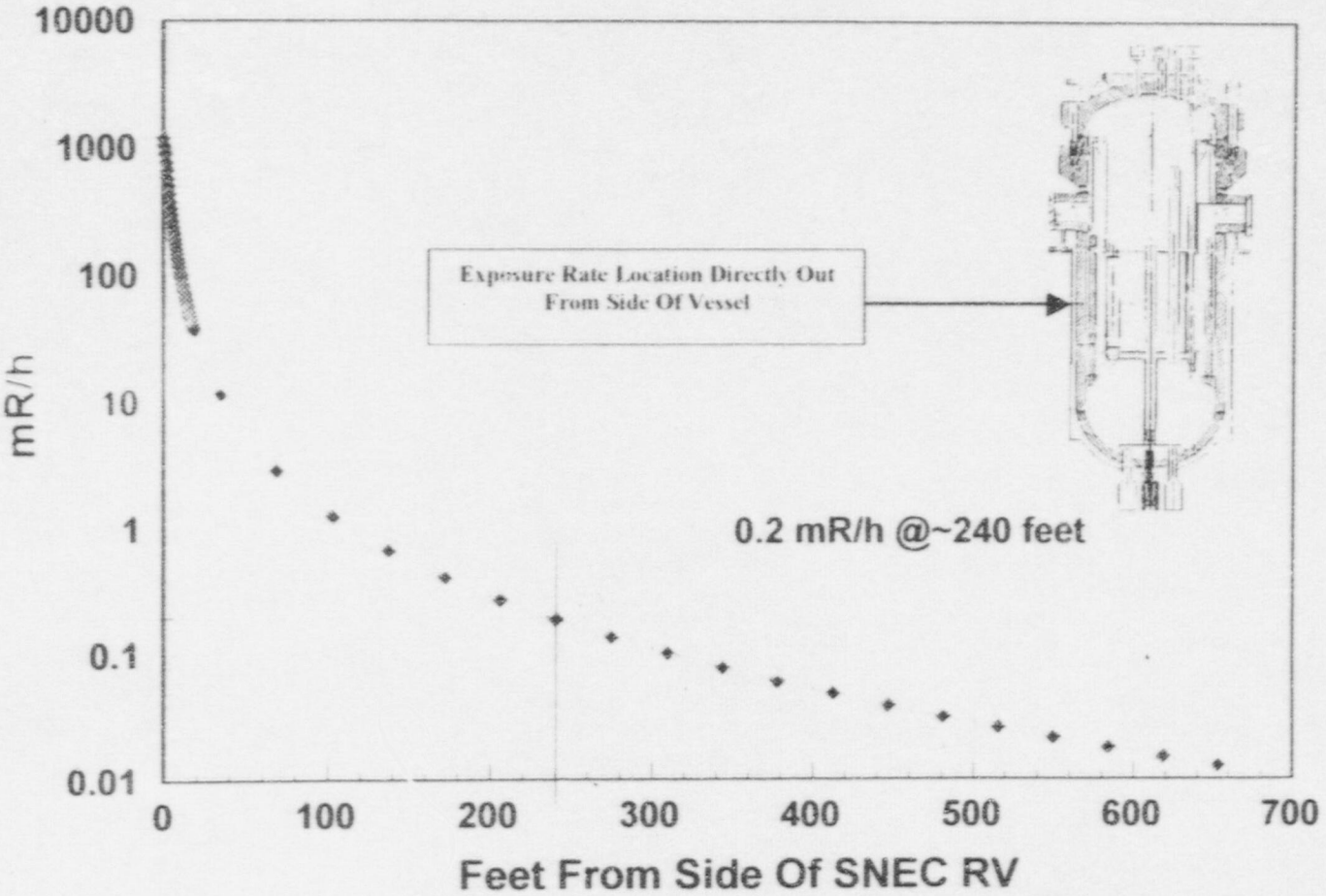
SNEC Large Component Removal Project

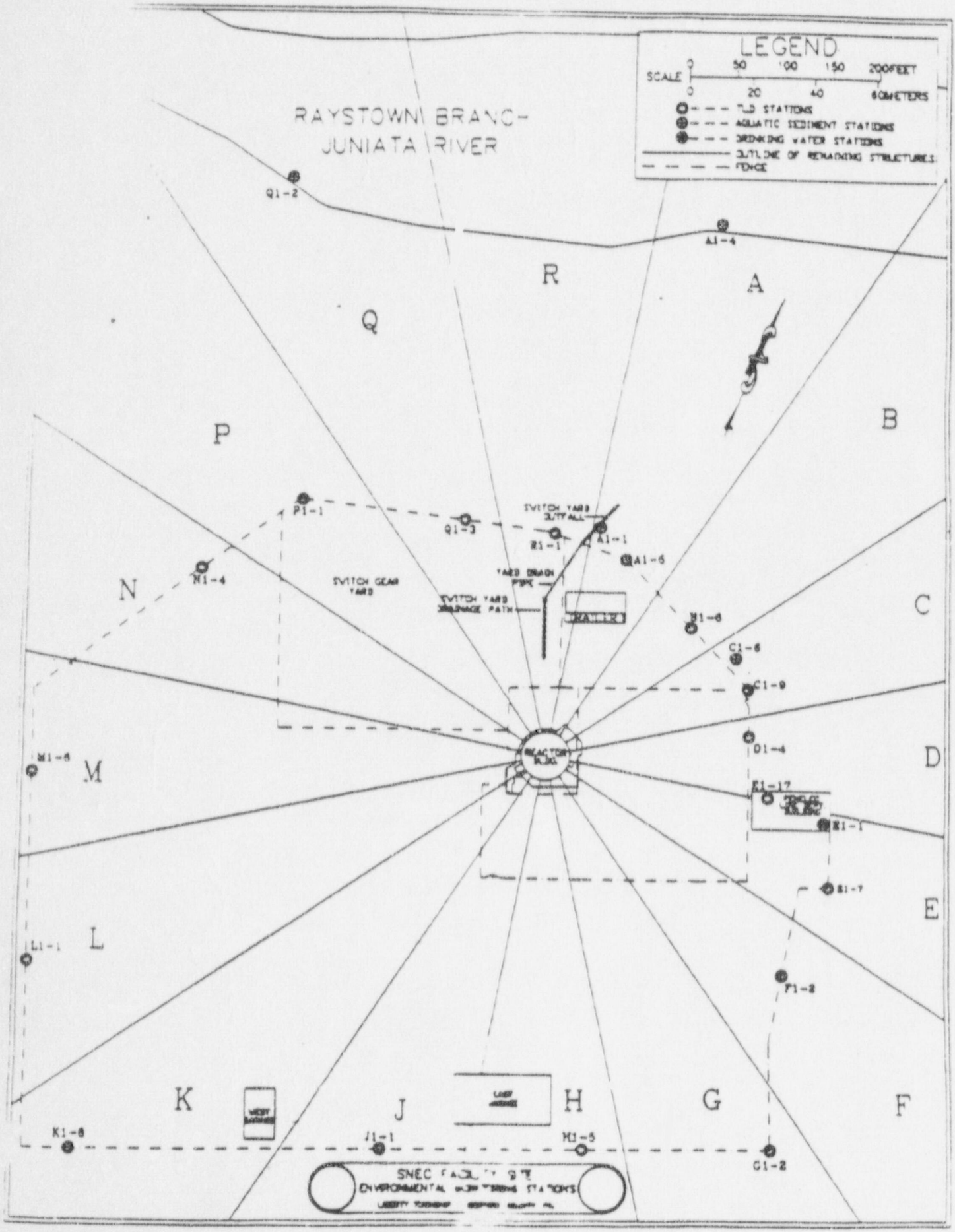
- ALARA:
  - Removal/loading
    - Site access controls
    - Remote canister welding

SNEC RV - No Support Can

(with Grout @ 0.4 g/cc)



SNEC Facility Area Map



Projected Exposure Rate From SNEC RV

(In Shipping Canister Results Are Based On External TLD Measurements)

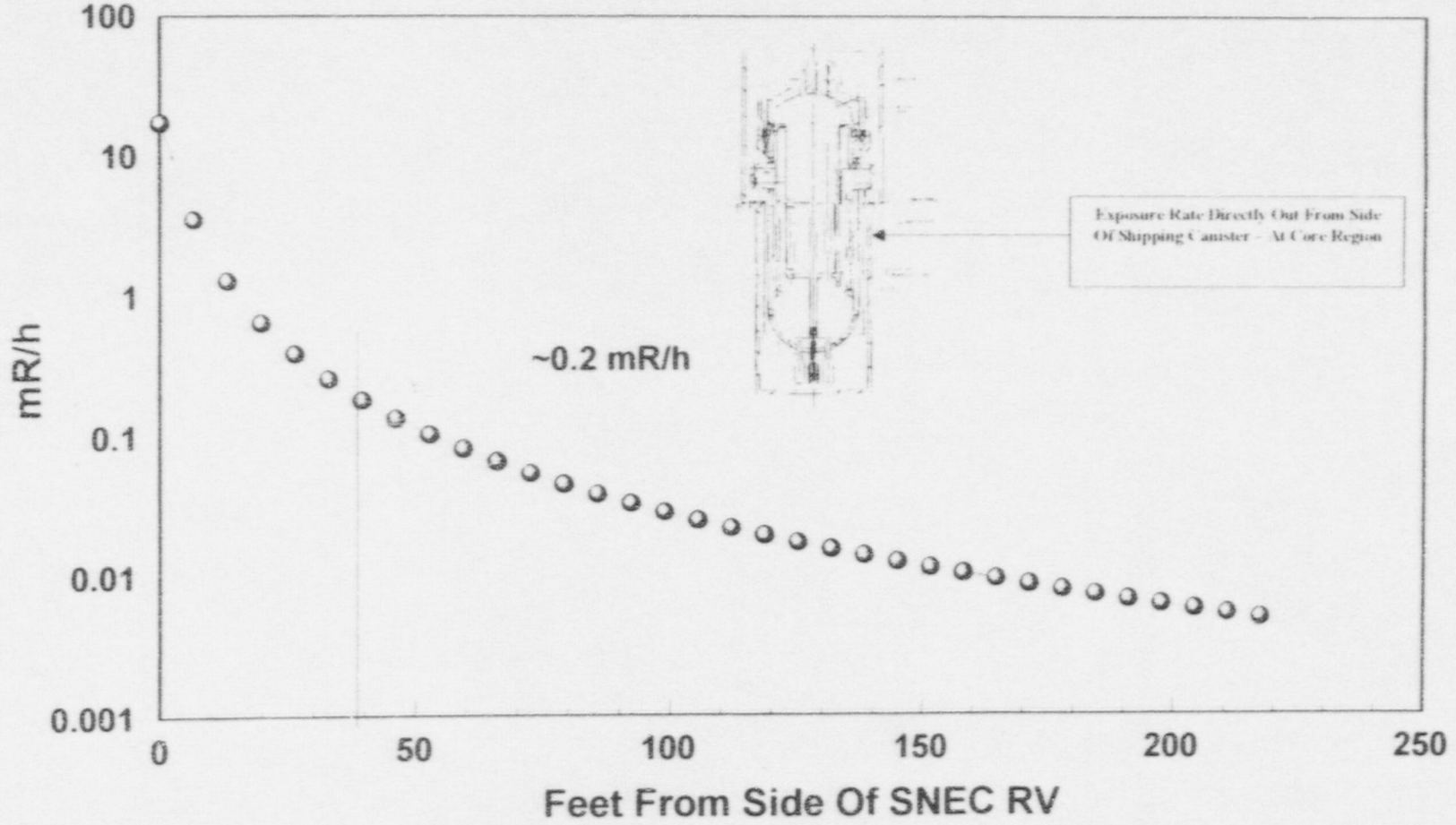
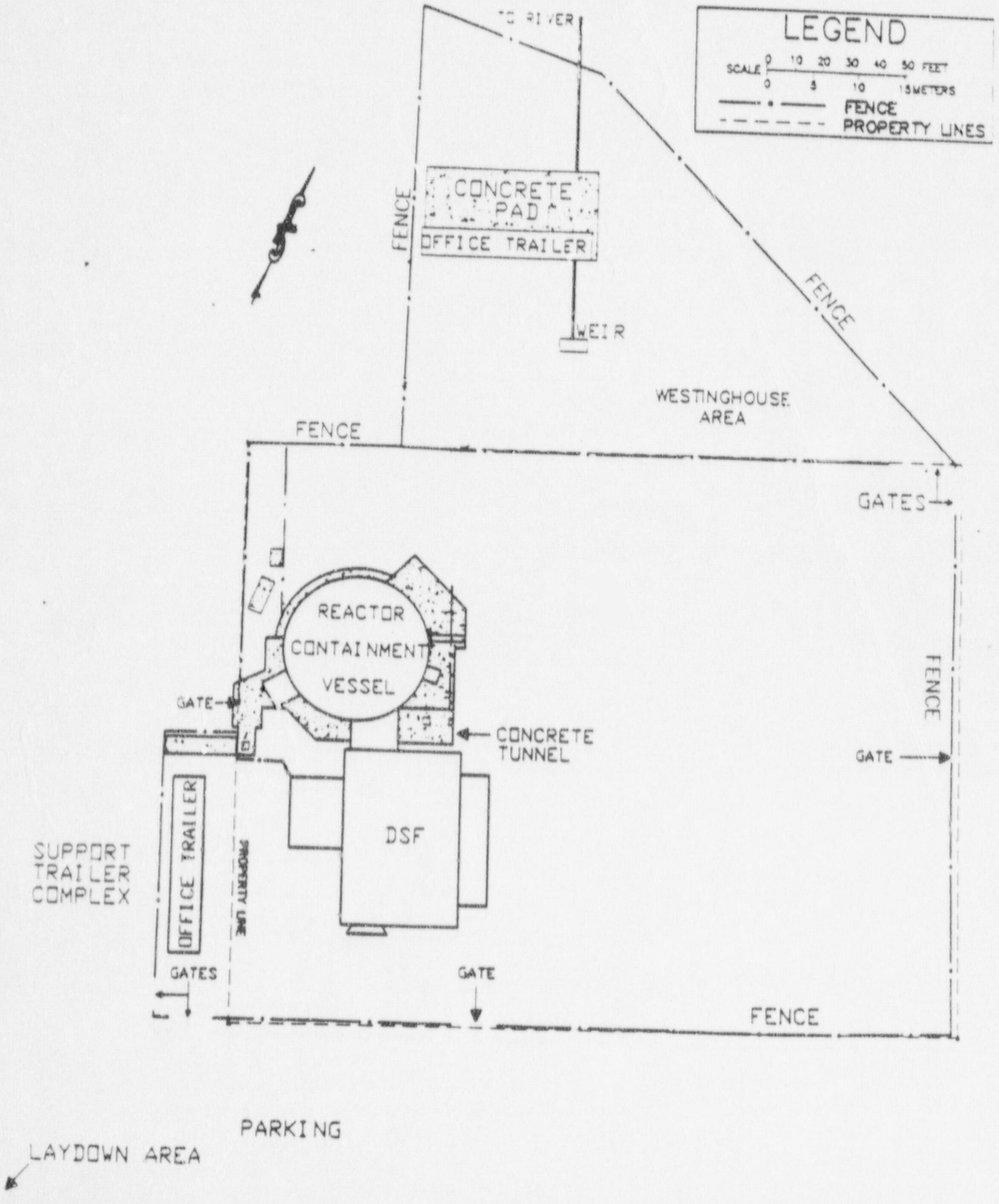
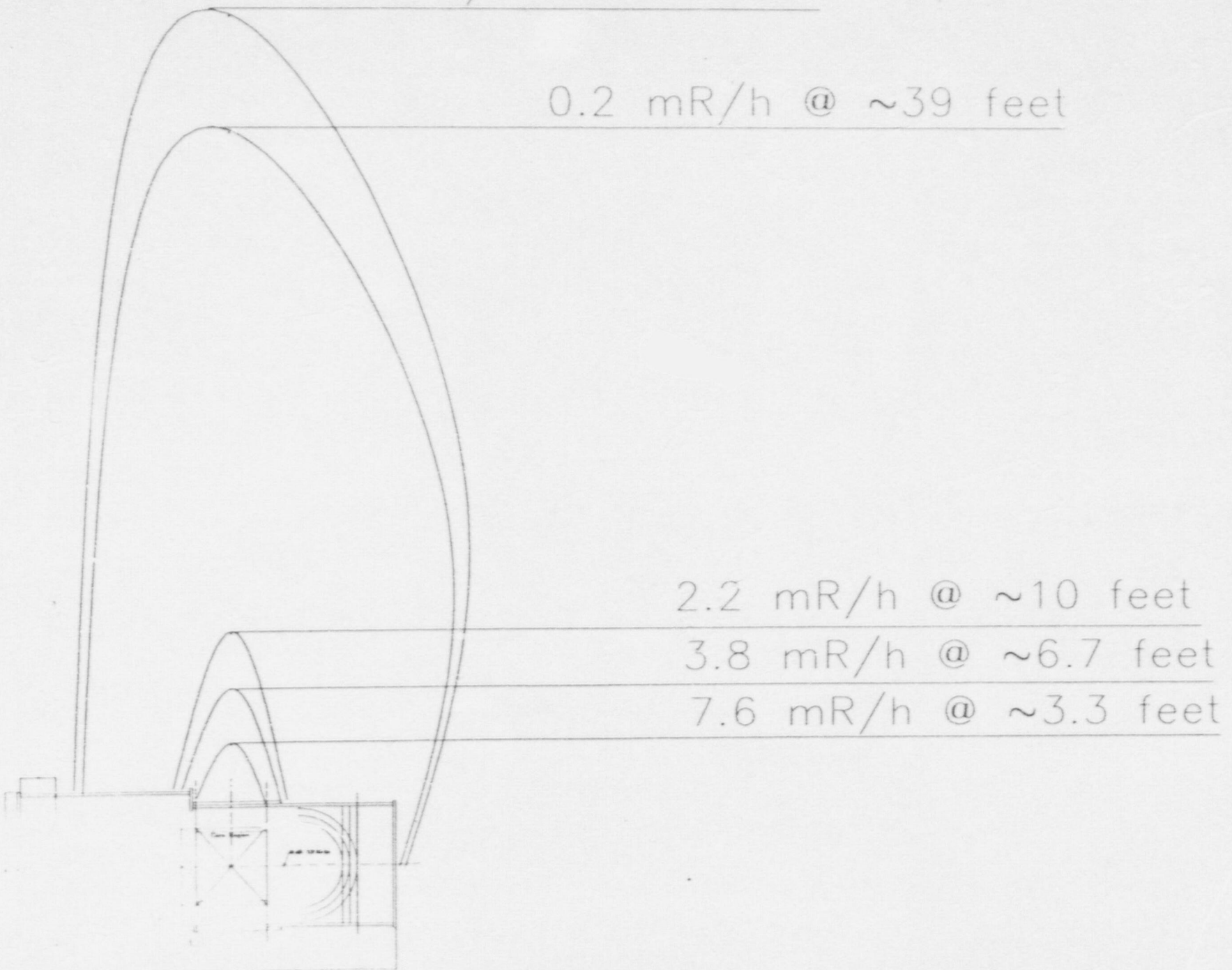


Figure 1-1

SNEC FACILITY SITE LAYOUT



Estimated Exposure Rate Profile – SNEC RV



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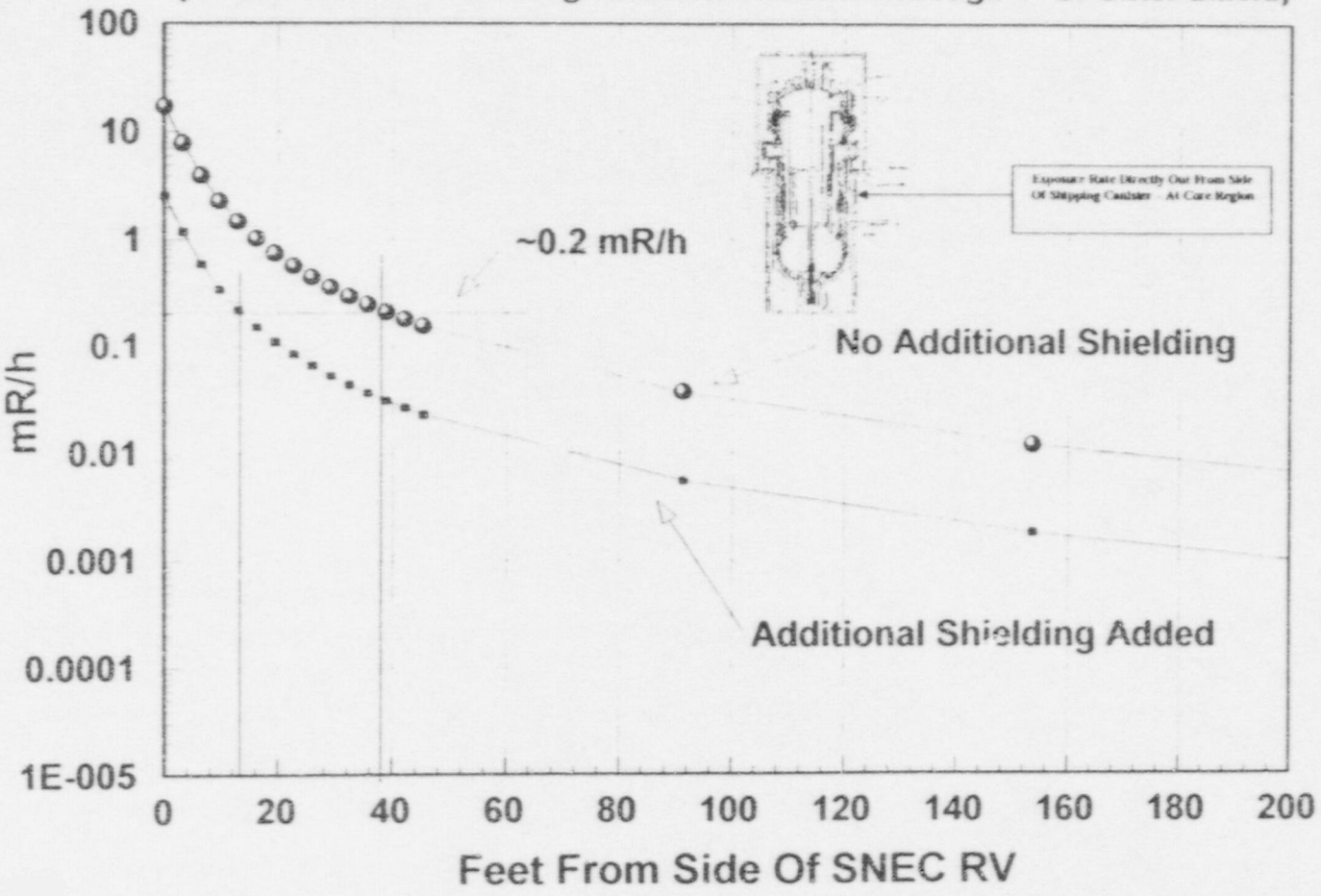
SNEC Large Component Removal Project

- ALARA:
  - Rail Site
    - 24/7 Rad Con Tech Coverage
    - Access controls
    - Temporary shielding
      - Concrete barriers (6 inches)
      - Lead blankets (3 layers)
    - Radiological monitoring program

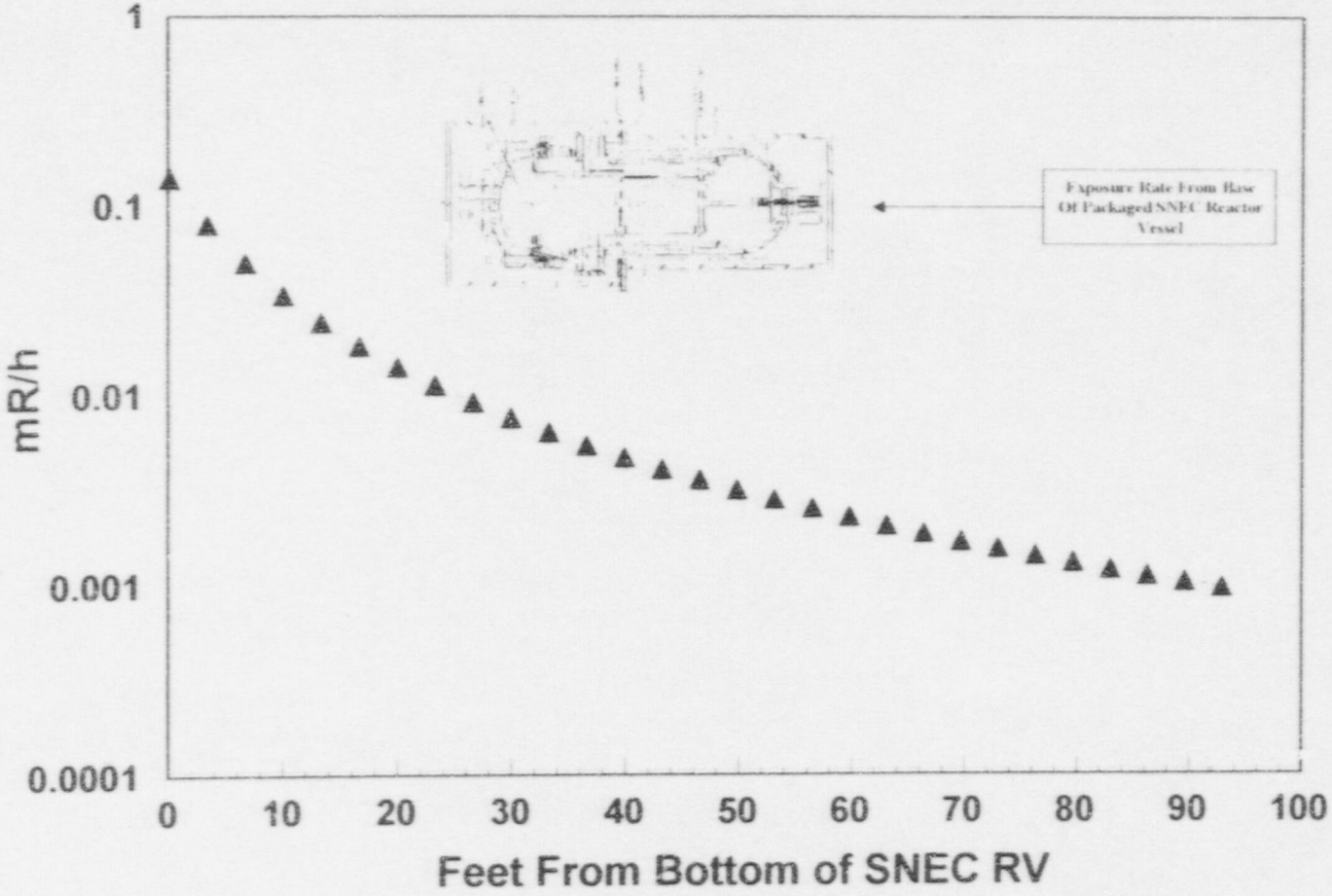
Projected Exposure Rate For "In-Shipping Canister" SNEC Reactor Vessel

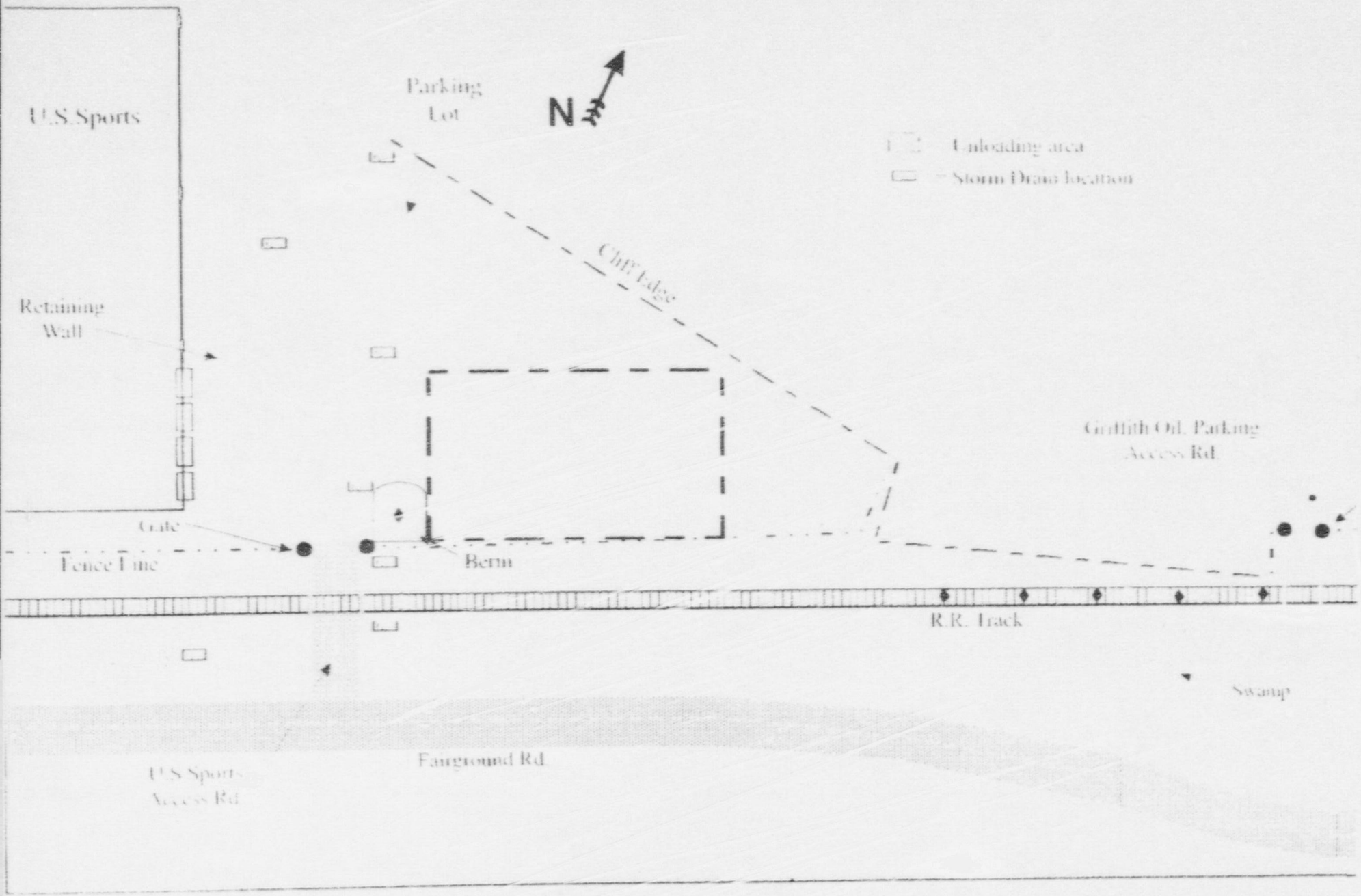
(Results Are Based On High Side TLD Results Through 4" Of Outer Shield)



NOTE: Additional Shielding Composed of 3 Lead Blankets & one 6" Concrete Barrier

In Shipping Canister Exposure Rate From Bottom of SNEC RV




U.S. Sports
Parking Lot
N
Unloading area
Storm Drain location
Cliff Edge
Retaining Wall
Griffith Oil Parking Access Rd.
Gate
Fence Line
Berm
R.R. Track
Swamp
Fairground Rd.
U.S. Sports Access Rd.

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SNEC Large Component Removal Project

- Environmental/Radiological Monitoring:
  - Rail Site
    - TLD Monitoring stations
    - Rad surveys
    - Soil sampling
    - Interface with neighbors
    - Preparation for differences in Radiation Instrumentation

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SNEC Large Component Removal Project

- Radiological Monitoring:
  - Truck Transportation
    - Fixed TLDs
    - Driver monitoring
    - Rad Con Tech escort
    - Periodic rad surveys

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SNEC Large Component Removal Project

- Radiological Monitoring:
  - Rail Transportation
    - Fixed TLDs
    - Crew monitoring
    - Crew briefing
    - Rad Con escort
    - Periodic and Special Surveys

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SNEC Large Component Removal Project

- Emergency Preps:
  - GPU Nuclear escorts
    - Multi-talented
    - Communications
  - Emergency Response Kit
    - Immediate action type equipment

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SNEC Large Component Removal Project

- Emergency Preps:
  - Health and Safety Plan
    - Developed with Duke Engineering Services Support (Yankee Rowe)
    - Detailed information
  - Nuclear Plant assist
    - Assist from near by plants

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SNEC Large Component Removal Project

- Radiological and Safety Summary:
  - Good Team (GPU Nuclear/Raytheon)
  - Manageable Radiological Conditions
  - Strong Programs