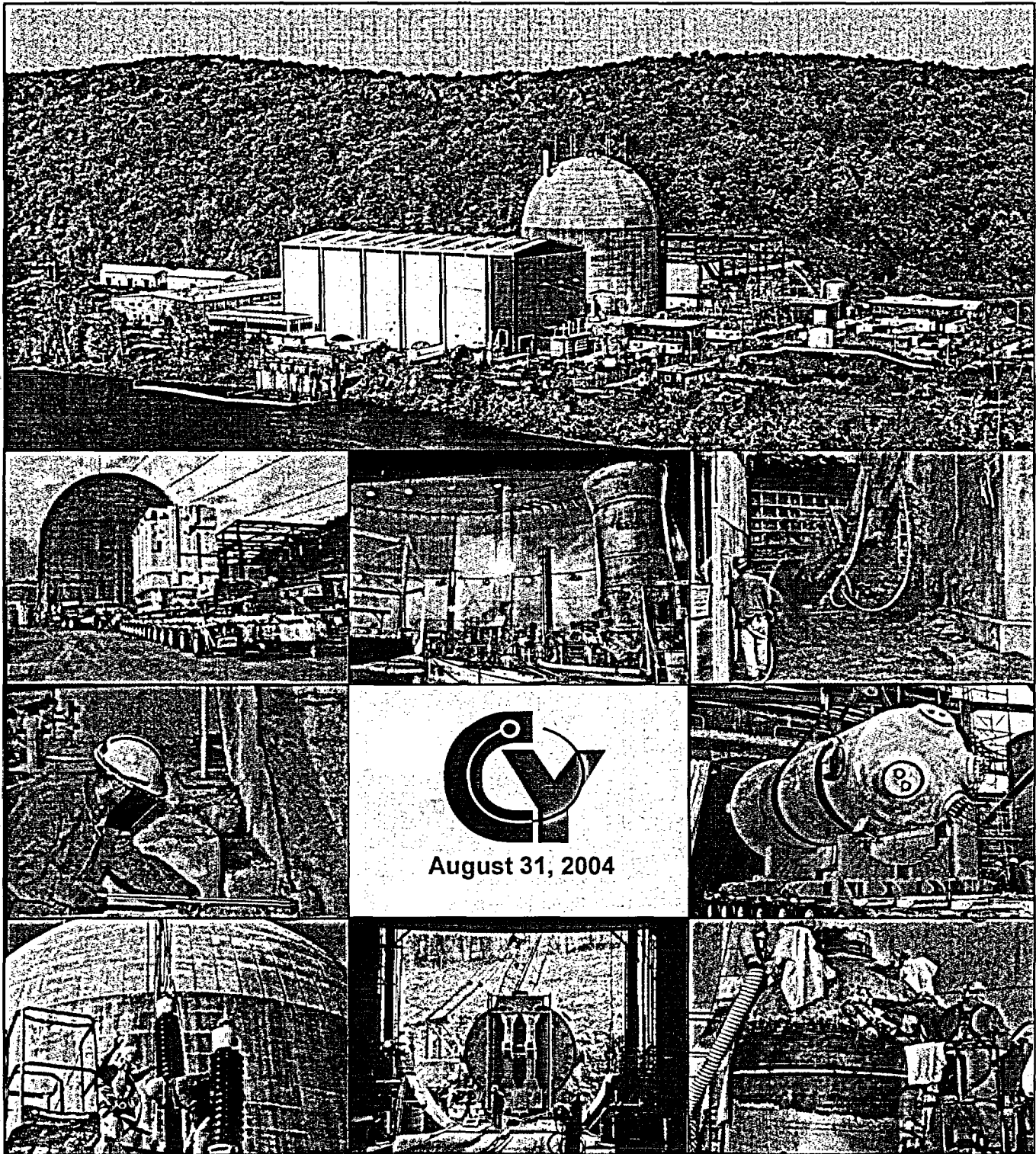


Connecticut Yankee Atomic Power Company

NRC Region I Briefing



NRC Region 1 Briefing

Tuesday, August 31, 2004, King of Prussia, PA

Connecticut Yankee Decommissioning Project Status

Overall

Started decommissioning self performance in June 2003

RPV disposed in Barnwell January 2004

Physical work scheduled to be completed fall 2006

License termination scheduled for summer 2007 via partial site releases

Project performing consistent with overall self-performance cost and schedule

2 GTCC and 13 Fuel canisters in storage at ISFSI

Self-performance work 36.50% complete (vs. forecast of 29.13%) as of July 31

T& M Headcount: Approx. 730 workers (near project peak)

Addressing non-compliance and supervisory oversight concerns

Industrial Safety

4.0 Million Hours since last LTA – More than 4 years

Six OSHA Recordables in 2004 (1.24.x/200,000 work hours as of 8/30) – including 3 in August

Track first aid cases as leading indicators - a mixture of causes including bee stings, cut, and bruises

Radiation Protection

2004 dose to date/ALARA estimate for work complete x 100 = 75% (8/14)

Year to date (8/14) actual exposure 55.96 PersonREM

Project to date (as of 8/14) 731 PersonREM

Currently anticipating completing decommissioning and fuel load with a dose of 830 PersonREM versus PSDAR estimate of 935

Expecting OI investigation on the High Rad. valve incident with MBI in July - CY Root Cause completed and provided to John Wray – Did not substantiate "willful" violation

Fuel Transfer

#	<u>Process Time (Days)</u>	<u>Dose (milliREM)</u>	<u>Heat Load (KW)</u>
GTCC -1	11	154	
GTCC-2	9	170	
Fuel-1	9	333	8.46
Fuel-2	9	309	8.47
Fuel-3	8	580	11.65
Fuel-4	8	241	8.46
Fuel-5	8	782	11.63
2 TFR Operation			
Fuel- 6	5	641	10.63
Fuel-7	6	616	11.43
Fuel-8	5	707	11.32
Fuel-9	6	769	11.65
Fuel-10	4	827	11.65
Fuel-11	5	896	11.74
Fuel-12	18	928	12.28
Fuel-13	8	1366	12.23

Fuel-12 – Two week delay because of heavy haul trailer issues

Fuel-13 – Total processing time (24 days) delayed because of heavy haul trailer and spent fuel chemistry issues; TSC req'd forced air cooling due to significant amount of failed fuel (4 DFC's) – Higher dose due to extended time, higher heat rate and dose from vacuum drying skid

Addressing heavy haul trailer issues

Addressing spent fuel pool chemistry challenges

- Installed in-pool water box or cofferdam
- Additional in-pool demineralizers being installed

Water discovered in the bottom of empty VCCs:

- Removing water from VCC prior to loading
- Considering weep-hole installation for those already on the pad

Decommissioning/ Building Removal Preparations

Containment

- All reactor cooling system piping removed
- Cutting out Neutron Shield Tank: half of about 172 pieces to be cut this week
- Hydrolyzed residual heat removal line (results very good < DCGL of .1mR)

Buildings demolished

- Emergency diesel generator building
- Old HP facility
- Primary ventilation stack

Demolition underway

- Turbine hall
- Waste disposal building

Waste Management

19.5 million lbs of waste shipped as of 7/31– 7% of 266 million lbs of waste (excluding large components and trash) to be shipped

Contracts with Envirocare, RACE and Permafix for D+D wastes

Need US Ecology in Idaho as disposal option for PCB contaminated low level radioactive waste (NRC approval req'd)

Clean concrete being disposed in Connecticut

License Termination

Groundwater source term removal

- Ground water level in vicinity of contaminated soil reduced with de-watering wells
- Strontium level trending down – Please see attached graphs
- Structure and contaminated soil removal continues
- Conducting bed rock FSS test
- Contaminated soil excavation to be completed this fall
- Backfill with clean soil winter 2005
- Spring 2005: De-watering wells turned off, ground water levels return to normal, 18 month monitoring begins

LTP

- Met with NRC on August 17 to discuss amendment (activated concrete/leach rate of H₃)
- Biennial LTP update scheduled to be submitted to NRC on September 2
- Good support from Region 1 and ORISE on FSS

Expecting DEP response on site closure under RSRs in September (RCRA IAW QAPP, Rad. IAW RSR's at 19mR and GW IAW RSR's at EPA's MCL's)

Submitted State closure plan (LTP) in August

Continuing RCRA RFI, sediment/soil sample (22 AOCs require closure)

Submitted proposed tech spec change to deal with elimination of control room after fuel transfer

Awaiting NRC response on Phase 1 area (non-impacted) license termination request

NRC Region 1 provides effective regulatory status information at CDAC meetings

Efforts to address procedure noncompliance issues

Issues identified in low-threshold condition report program

Each CR addressed by management review team (perceived non-compliances require MRT review w/in 3 days for immediate CA)

Work stopped to address two condition reports involving work in Locked High Radiation and Radiation Area – Contractor not allowed to return to work until major causal issues addressed

Conducting assessments by outside experts of FSS, Licensing, Engineering, and Radiation Protection and QPD heightened attention to CR closures and development of Work Instructions

Improving quality of work instructions in work orders and ensuring that they are available and clear for field personnel

Clarifying safety expectations in new safety manual

Reinforced expectations with site supervisors and workers in several meetings – Key message: safety and procedure compliance are not to be compromised to meet schedule

Expect managers and supervisors to spend time in field observing and supporting work

Improvement with infield supervision by new labor contractor – S&W/Shaw

Rolled out new disciplinary action program for all on site workers

Accountability at the management level for departmental performance relative to non-conformances and corrective action

SCHEDULE LOOK AHEAD

ON-GOING DEMOLITION PROJECTS:

Waste Disposal Building-	Scheduled finish 2 September.
Diesel Generator Building and slab-	Scheduled finish 13 September.
Administration Building-	Scheduled finish 14 September.
Containment Commodity Removal-	Scheduled finish 13 October.
Tank Farm soil removal-	Scheduled finish 17 November
Turbine Pedestal-	Scheduled finish 13 December.

UP COMING DEMOLITION PROJECTS:

Primary Auxiliary Building	Scheduled start 24 September.
South end Service Building demolition-	Scheduled start 10 November.
Containment interior wall demolition-	Scheduled start 16 November.
North end Service Building demolition-	Scheduled start 7 January 05.

FUEL TRANSFER CAMPAIGN:

13 Fuel and 2 GTCC Canisters transferred to ISFSI.

14th Fuel Canister in process

26 additional Fuel Canisters and 1 GTCC scheduled for loading by 26 February 2005.

FINAL SITE SURVEY ACTIVITIES:

Containment Concrete/subsurface sample plan-	On going
Central Peninsula Area	Scheduled start 13 Sept
Embedded RHR line in Mat	Scheduled start 18 October
PAB Bedrock ISOCS Assessment	Scheduled start 30 November
Perform Surface Scan PAB/WDB/HP areas	Scheduled start 29 December
Collect Soil Samples in PAB/WDB/HP areas	Scheduled start 4 January 05
Perform Surface Scan for Service Building-	Scheduled start 6 January 05

NRC ITEMS:

Letter of Intent Concerning Release of Non-Impacted Area for the License

Exemption Request from 20 day limit for Investigation of LLRW shipments not received
by the Recipient

Tech Spec Amendment for Admin Changes

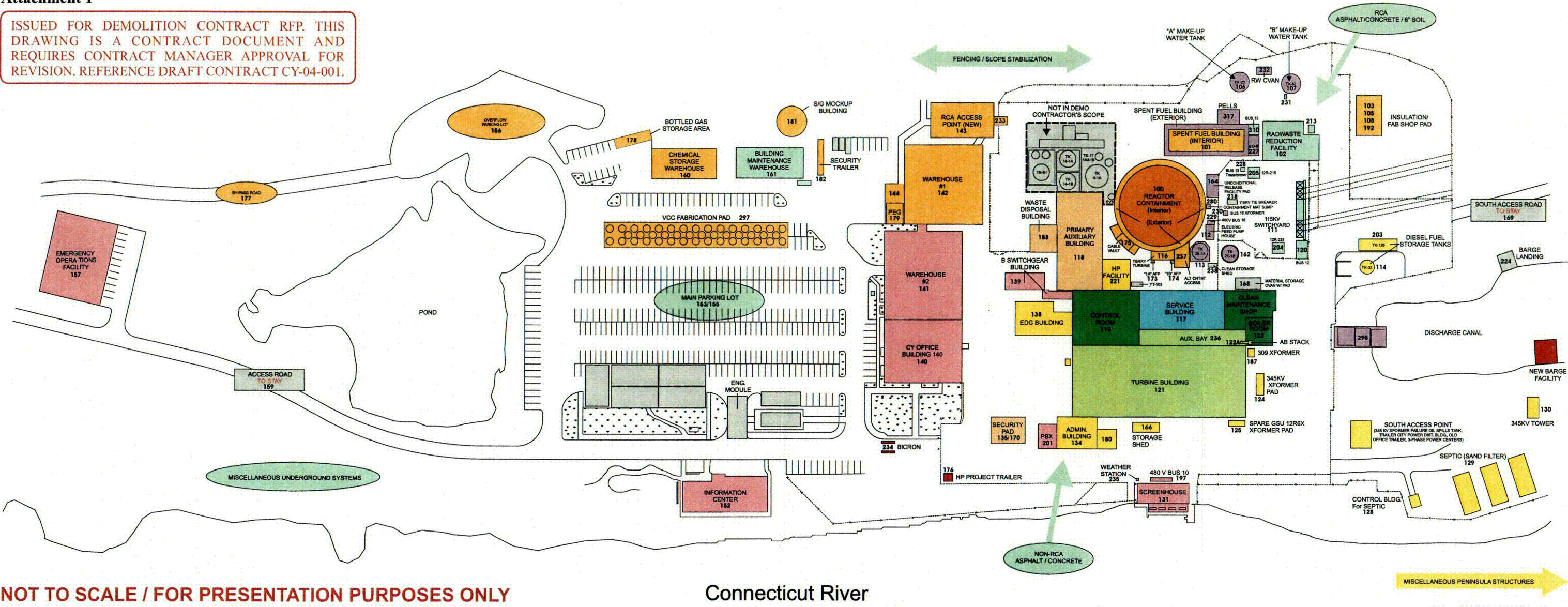
Tech Spec Amendment for related to the Unloaded Spent Fuel Pool

Response to Commission Orders due 7 September.

Request for Approval of Proposed Procedures in Accordance with 10 CFR 20.2002
(15 September submittal)

Exhibit D
Attachment 1

ISSUED FOR DEMOLITION CONTRACT RFP. THIS
DRAWING IS A CONTRACT DOCUMENT AND
REQUIRES CONTRACT MANAGER APPROVAL FOR
REVISION. REFERENCE DRAFT CONTRACT CY-04-001.



NOT TO SCALE / FOR PRESENTATION PURPOSES ONLY

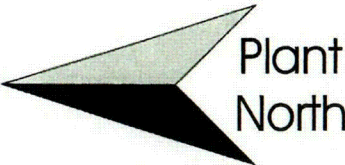
Connecticut River

* Dates Represent Structure Availability for Turnover to Demolition Contractor

March 29, 2004 Rev. 4

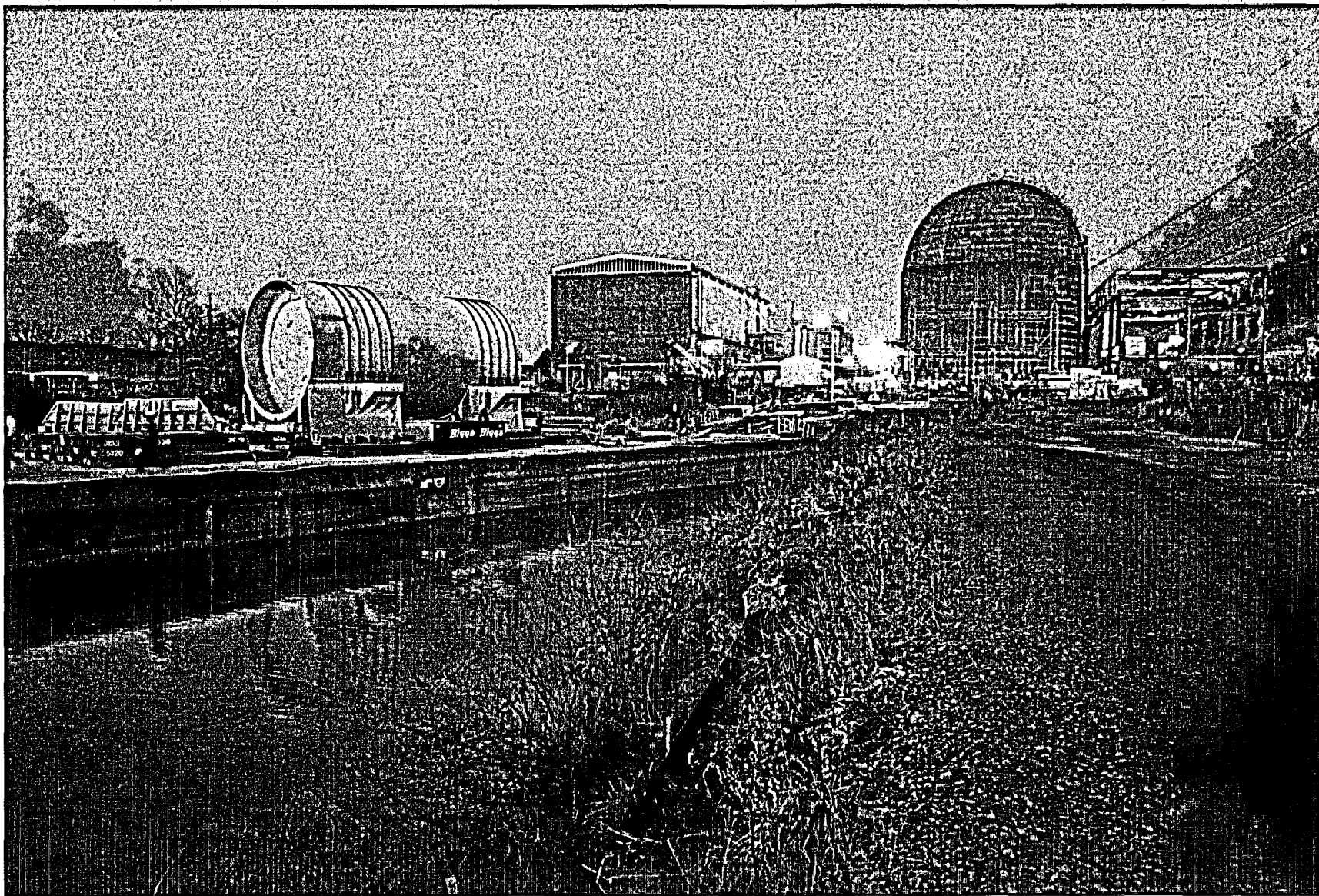
Yetter/DemoRFP/Exhibit D Attachment 1.cdr

	APRIL 2004		OCTOBER 2004		DECEMBER 2005
	JUNE 2004		JANUARY 2005		APRIL 2006
	JULY 2004		SEPTEMBER 2005		NOVEMBER 2006
	SEPTEMBER 2004		NOVEMBER 2005		NOT IN SCOPE

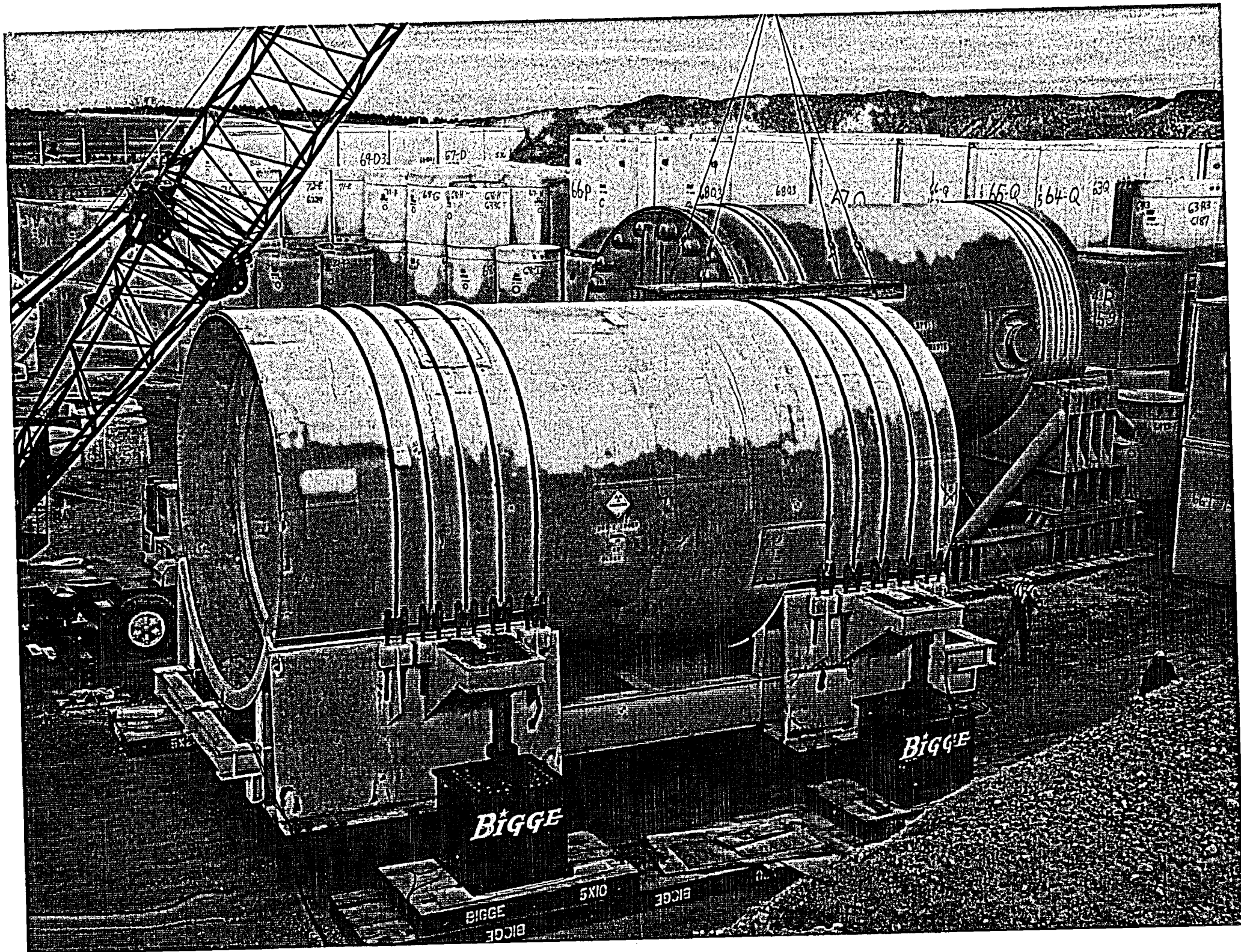


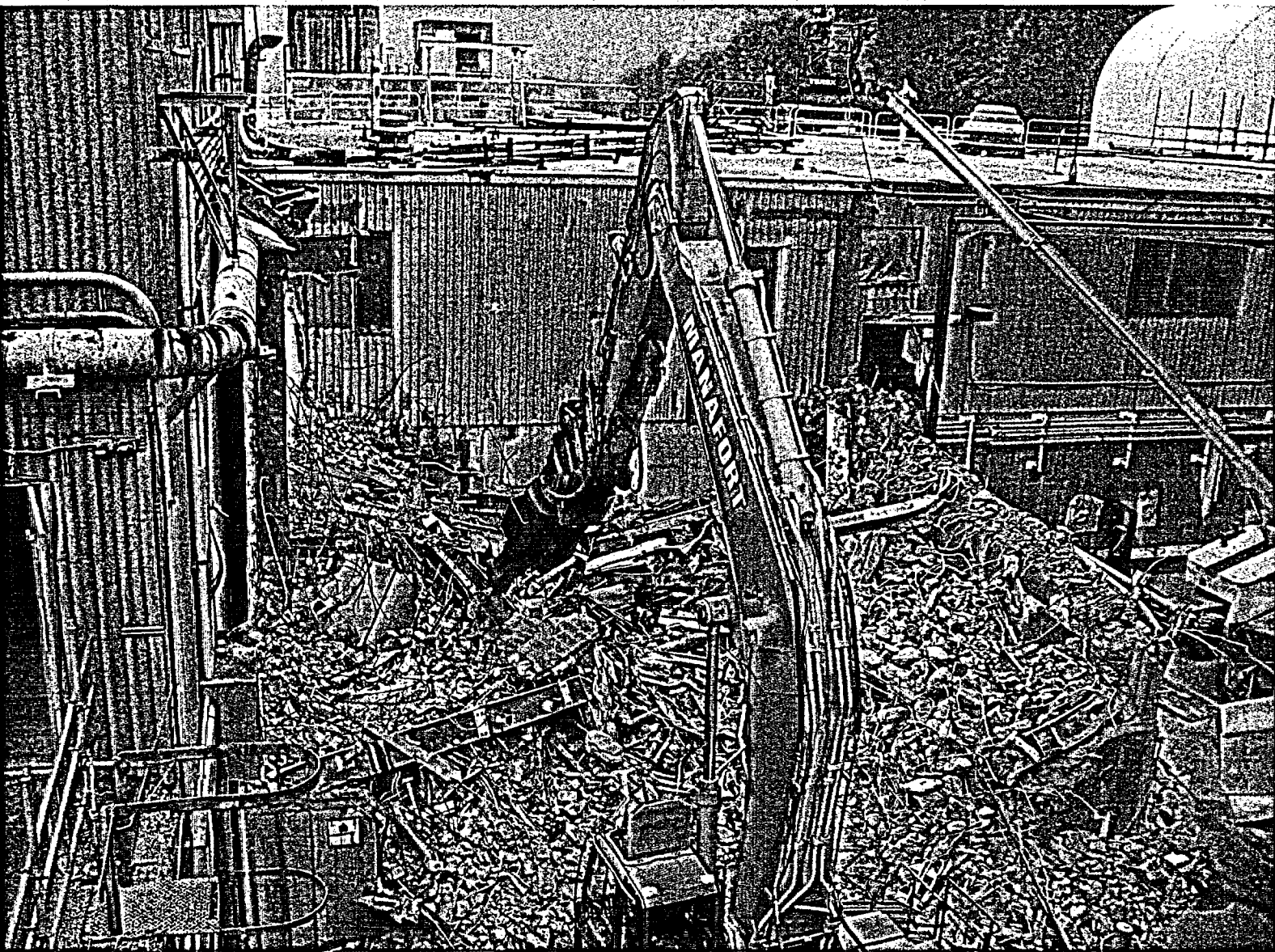
CONNECTICUT YANKEE ATOMIC POWER COMPANY
GENERAL ARRANGEMENT DRAWING
DEMOLITION SEQUENCE

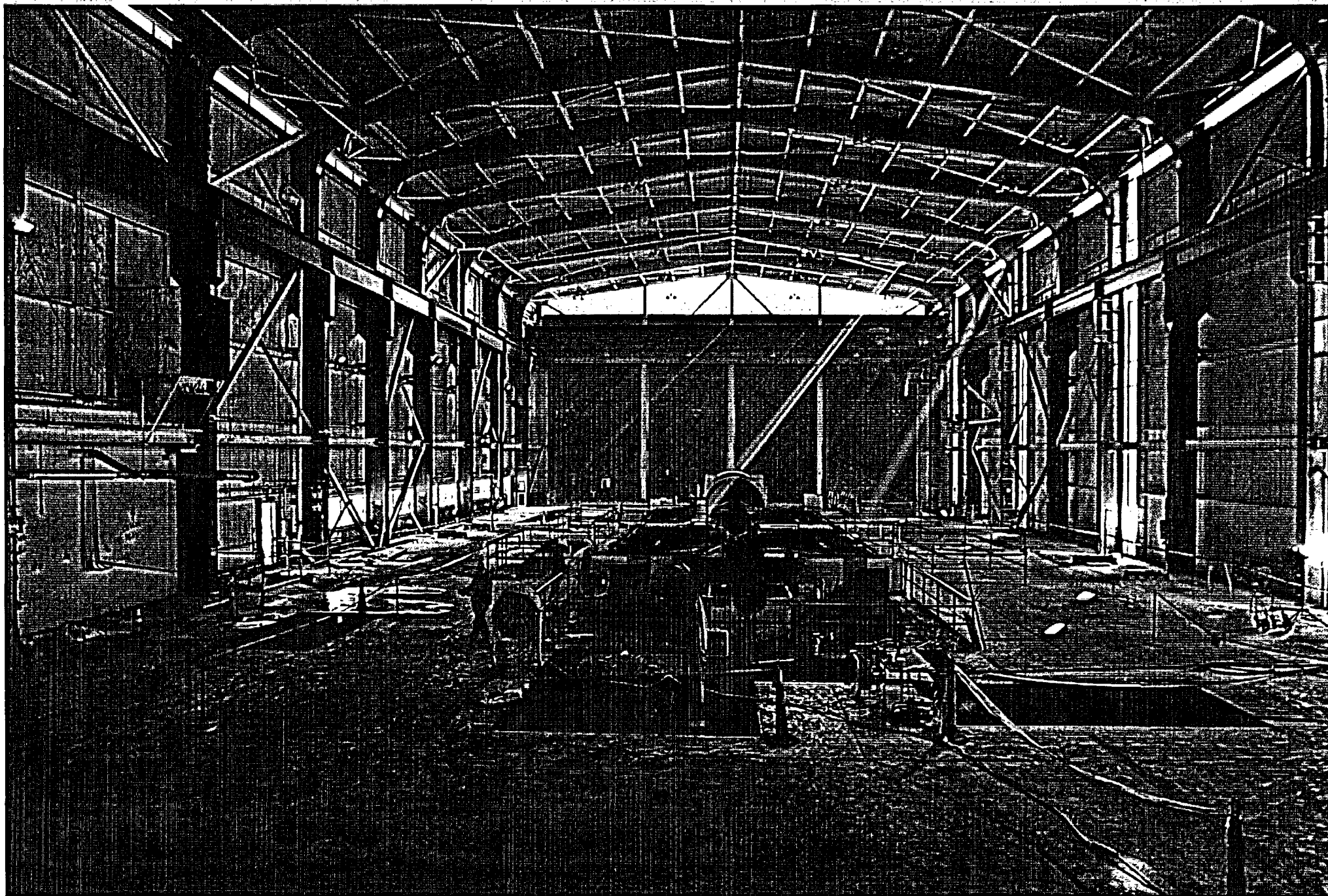


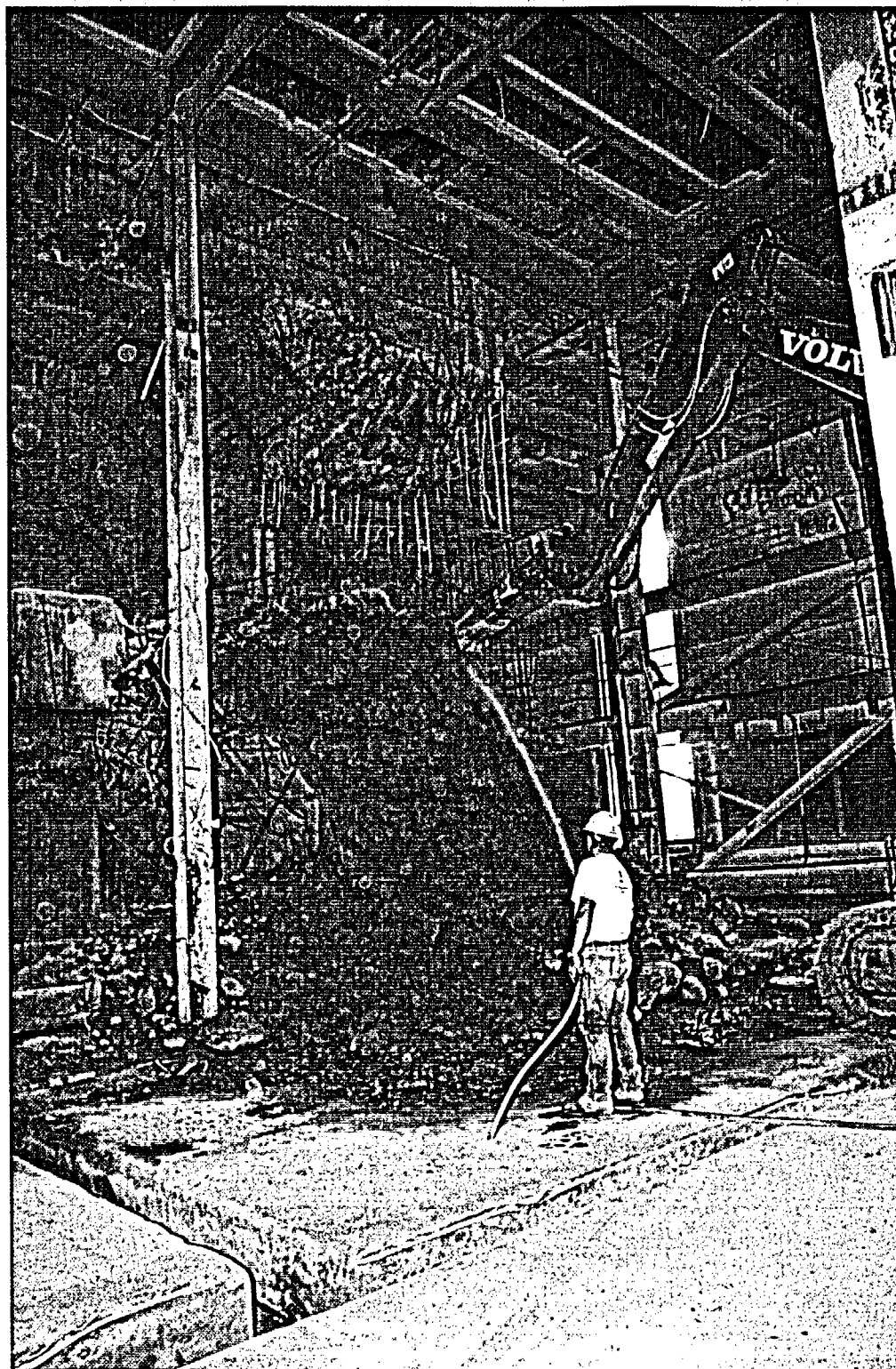


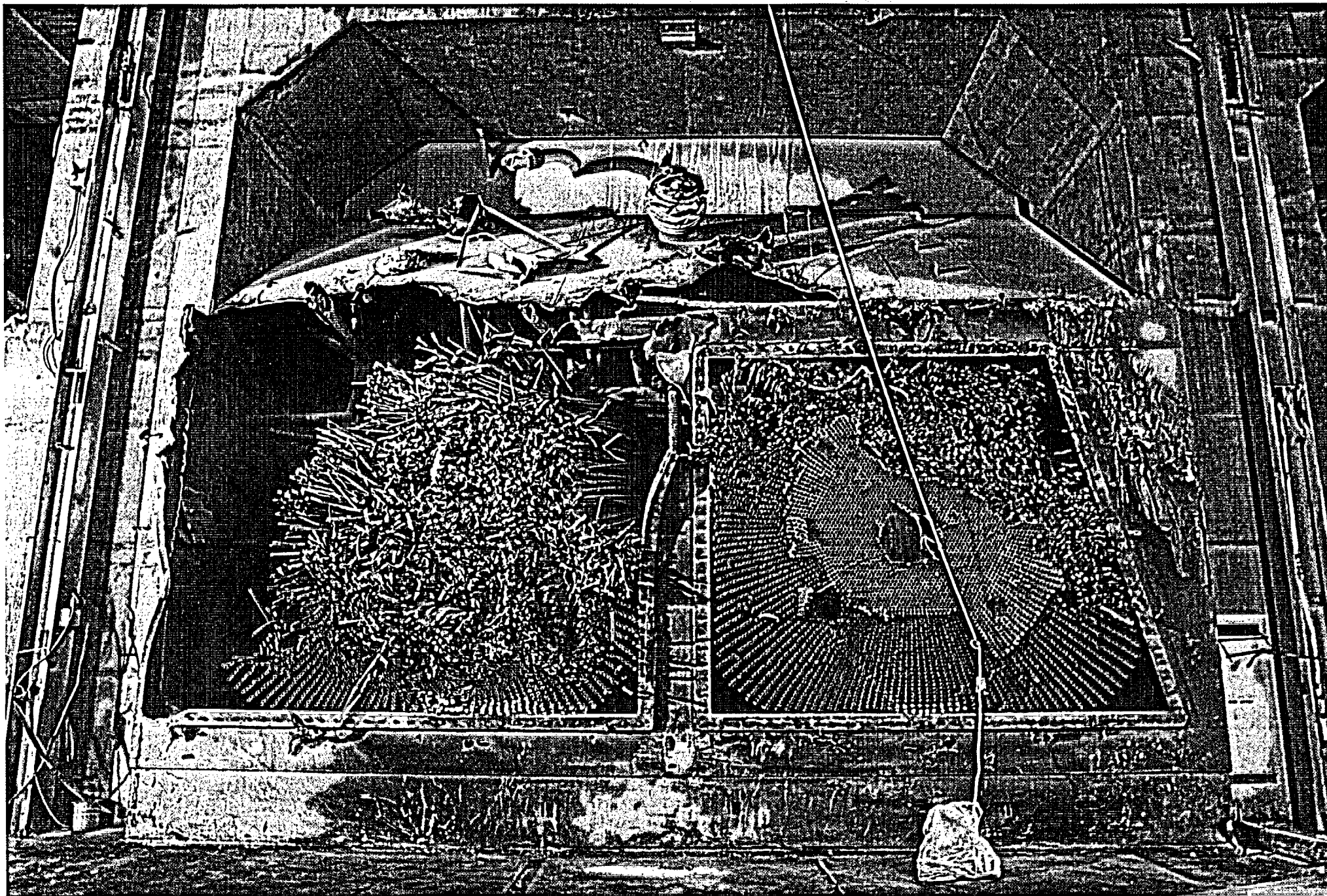
Reactor Vessel leaving CY December 2003



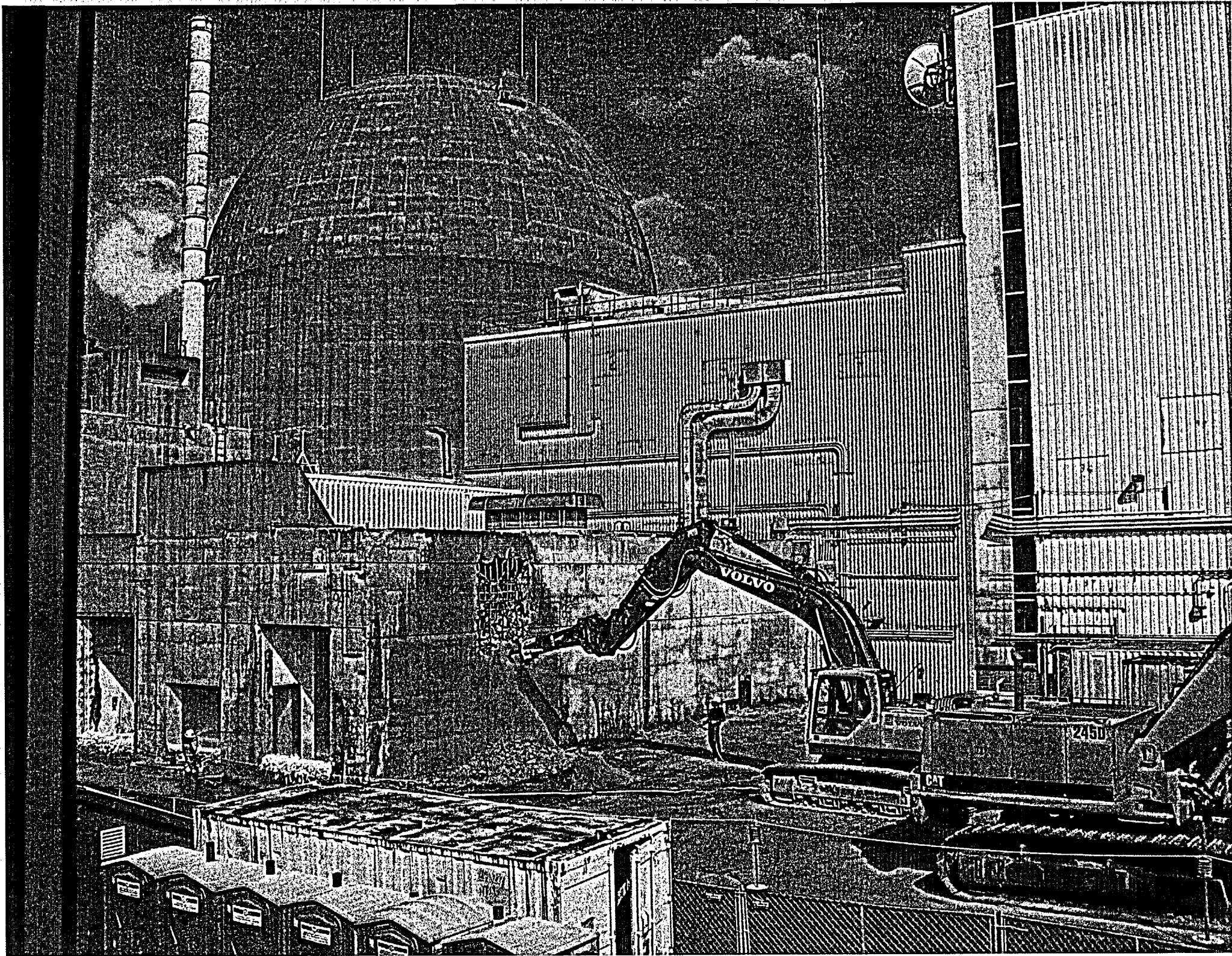


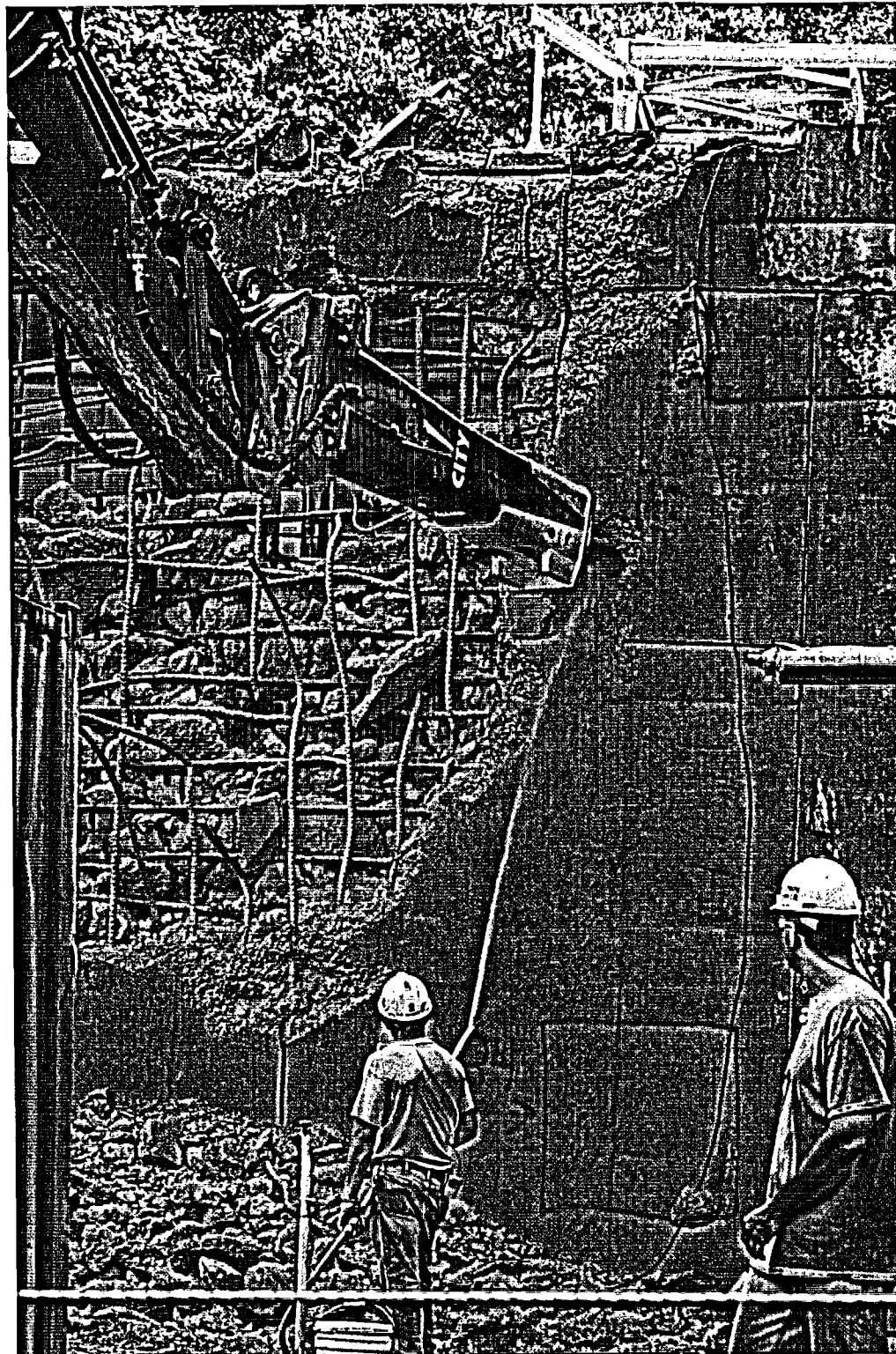


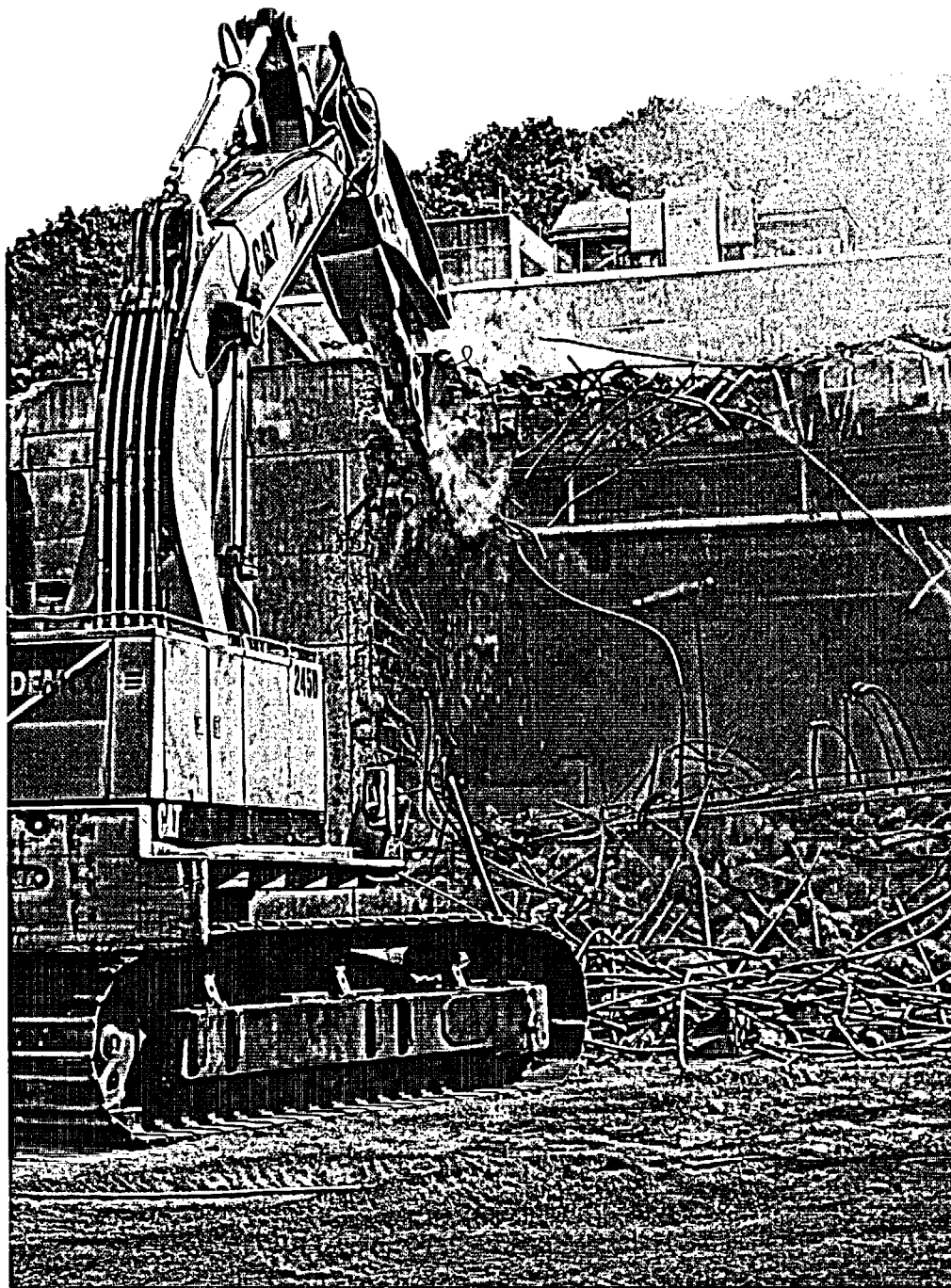


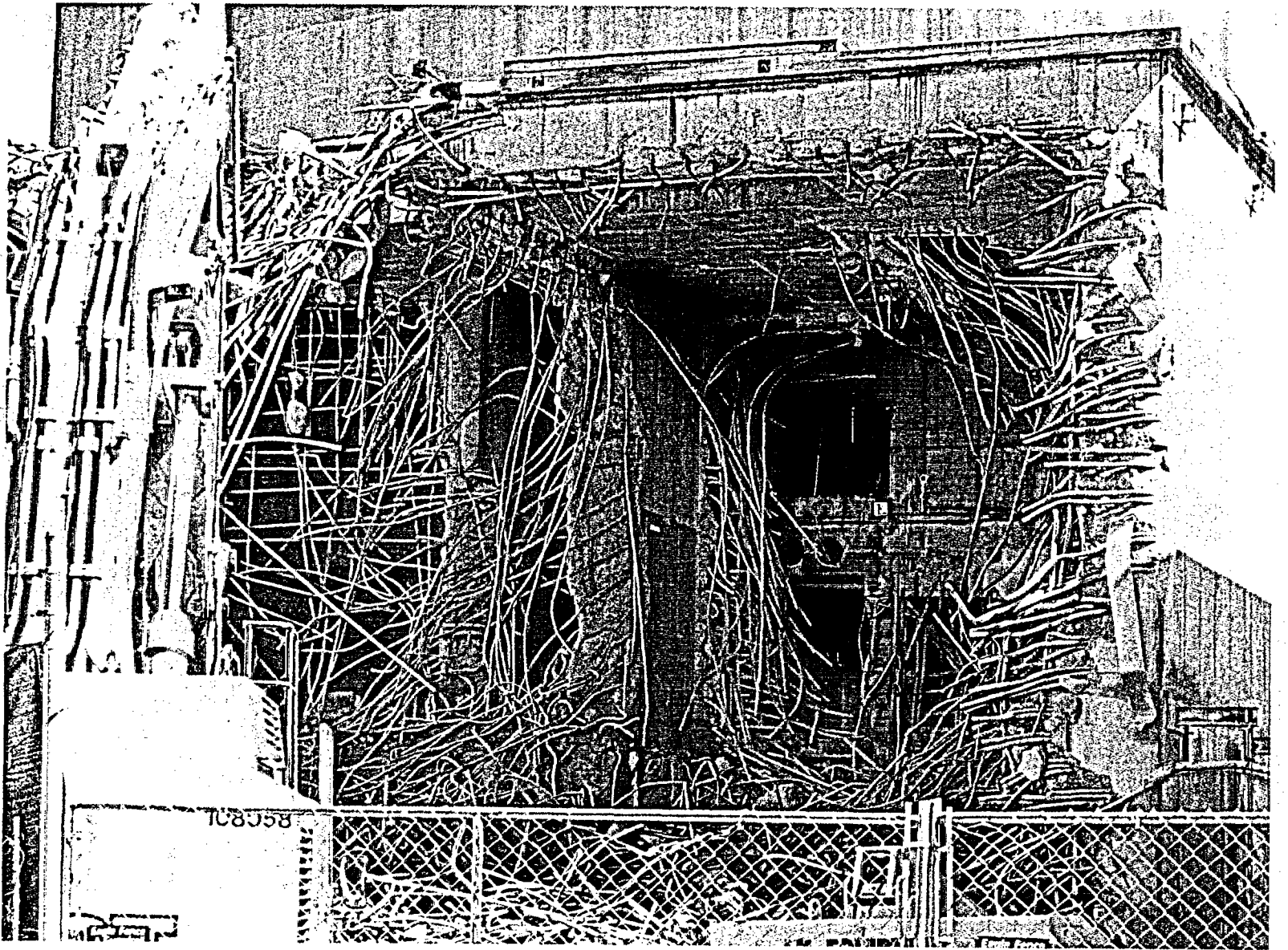










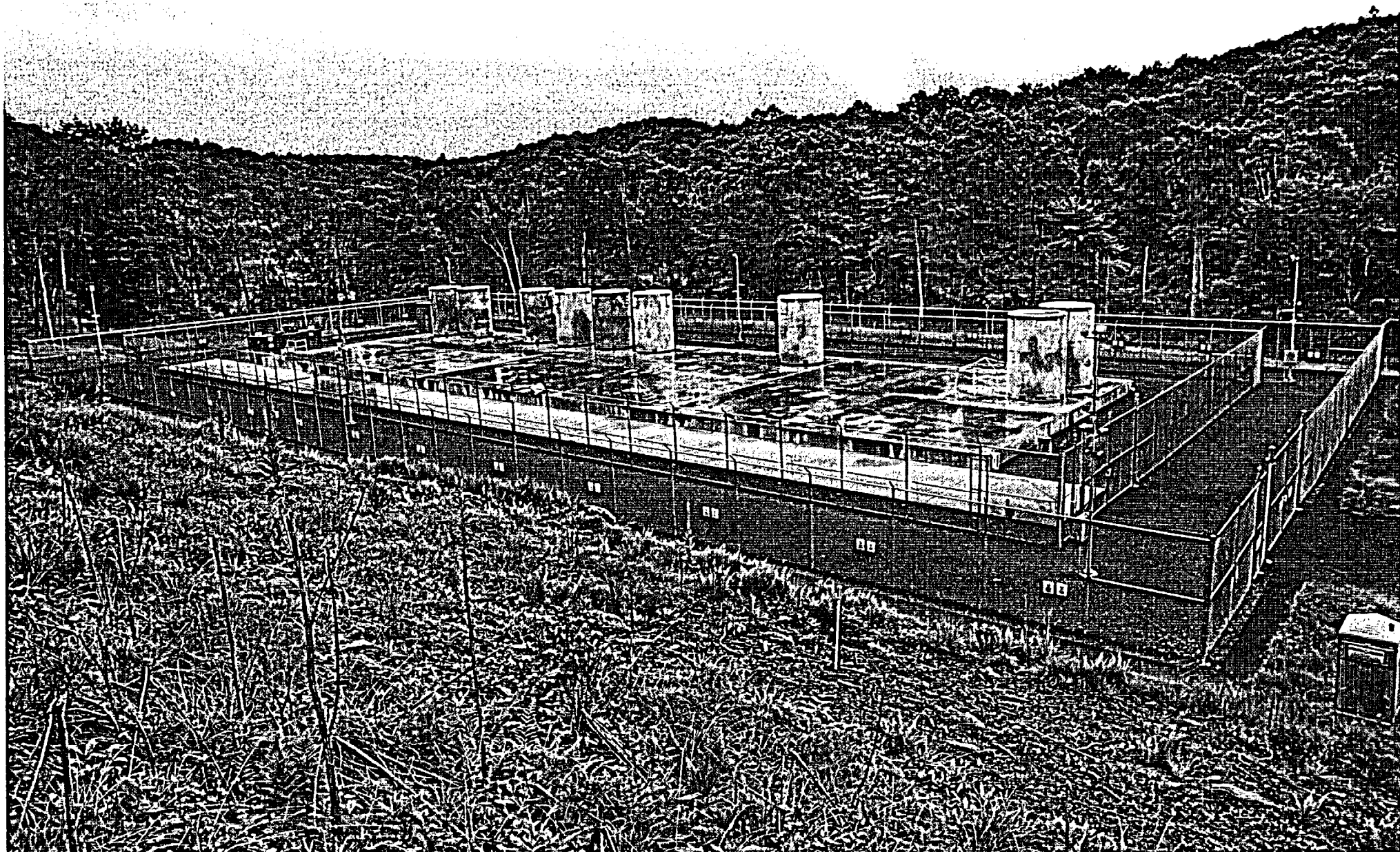




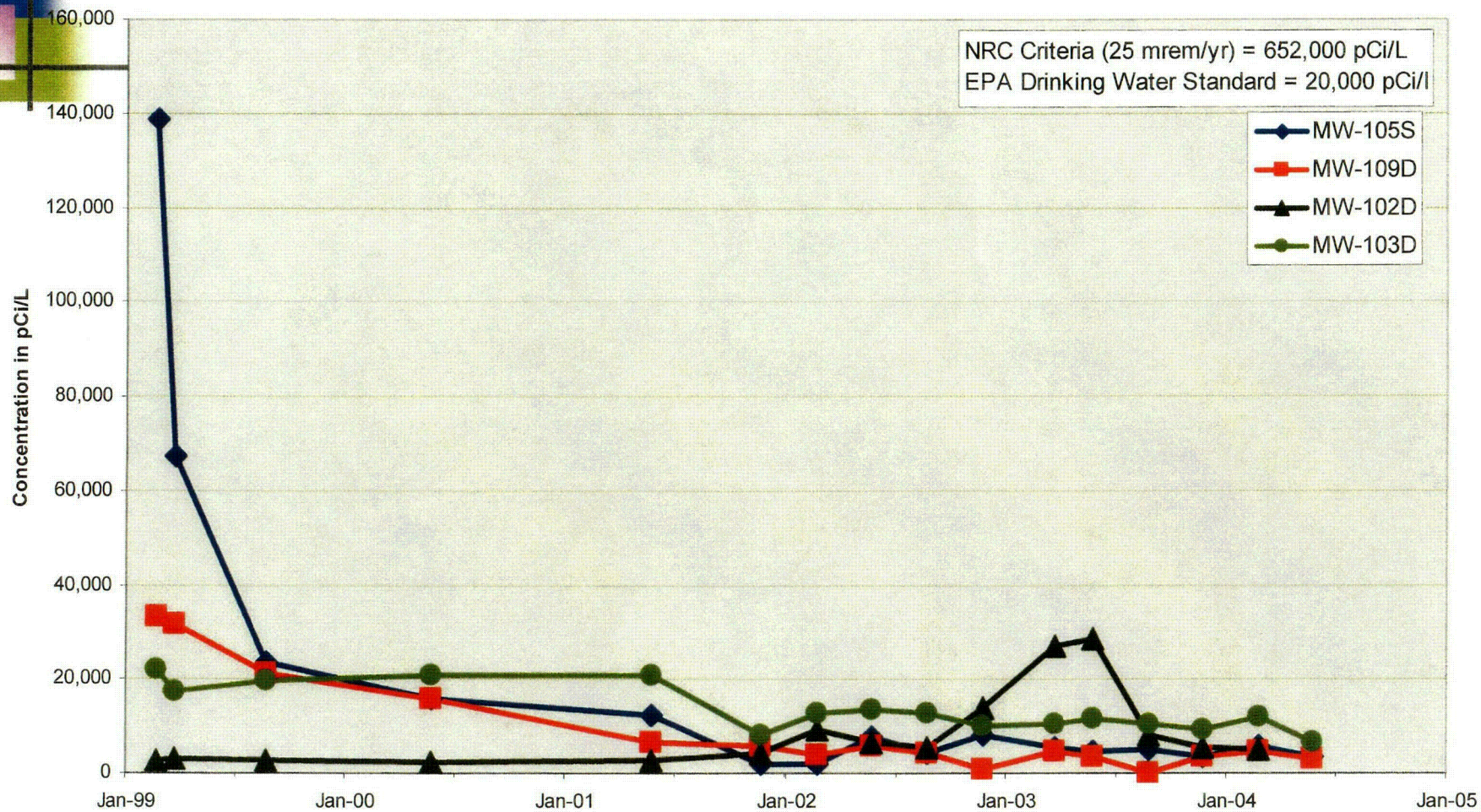
RED=Loading Category B = 95 (VDS=23+24+12+24+12)						GREEN= Loading Category D (VDS=72)								
BLUE= Loading Category C = 78 (VDS=33+24+21)						GTCC = Greater Than Class C								
						In Progress		Complete		As of 8/30/04				
						# 1st TSC/VCC Revised per SO-510 8/10/04								
Load	VCC#	CY Rec	TSC #	TFR#	# of	Rodlets	Insp/	TSC in	On	TSC in TFR	Dose	Decay		
Seq.		Insp.			DFCs	Installed	Upend	TFR	Pad	to Pad Dur	(mrem)	Heat	Comments	
G1	41	x	42	1			X	4/10/04 N	4/20/04A	11	154		1st GTCC	
G2	42	x	41	1			X	4/22/04 D	5/03/04A	12*	170		*Sat 5/1 & Sun 5/2 Off	
ISFSI Pad Surface Issues								4-May-04	13-May-04					
1	01	x	01	1		X	X	5/13/04 D	5/21/04A	9	333	8.46	1st Fuel	
2	03	x	03	1		X	X	5/22/04 D	6/02/04A	12*	309	8.47	*Sat 5/29-Mon 5/31 Off	
3	09	x	09	1		X	X	6/03/04 D	6/10/04A	8	580	11.65		
4	02	x	02	1		X	X	6/10/04 N	6/18/04A	9*	241	8.46	*Put TSC in TFR Prior Xport (1)	
5	08	x	08	2		X	NCR	6/17/04 D	6/26/04A	10*	782	11.63	*Retaining Ring Bolt Holes (1)	
2 TFR Operation Commences										Pad to Pad				
6	19	x	19	1	4	X	X	6/23/04 D	7/01/04A	5	641	10.63		
7	16	x	16	2	4	X	X	6/25/04 N	7/10/04A	9*	616	11.43	*Sat 7/3-Mon 7/5 Off	
8	20	x	20	1	4	X	X	7/02/04 N	7/15/04A	5	707	11.32		
9	23	x	23	2	4	X	X	7/11/04 N	7/22/04A	7*	769	11.65	*Sun 7/18 Off	
10	22	x	22	1	4	X	X	7/17/04 D	7/26/04A	4	827	11.65	25% Complete	
11	21	x	21	2	4	X	X	7/23/04 N	7/31/04A	5	896	11.74		
Heavy Haul Trailers (CY & Rowe) Problems								8/3/2004A	TBD				Arrived from Rowe 8/9/04	
12	36	x	36	1	3	X	X	7/28/04 D	8/18/04A	18*	928	12.28	2 Week Delay Due to HHTs	
13	35	x	35	2	4	X	X	8/02/04 N	8/26/04A	8*	1366	12.23	Due to HHT/ Demins /FAC	
14	26	x	26	1	4	X	X	8/20/04 N				11.78		
15	27	x	27	2	4	X	X					11.75		
16	31	x	31	1		X	X					11.90		
17	#18	x	#18	2	4		Wkg					10.85	Revised Per SO-510 8/10/04	
18	12	NCR-35/38	12	1			X					11.57	Includes 8 Flow Mixers	
19	33		33	2			NCR-034					11.93	Includes 8 Flow Mixers	
20	04		04	1	4		NCR-36/37					11.78	50% Complete	
21	14		14	2								11.65	Includes 8 Flow Mixers	
22	10		10	1								11.61	Includes 8 Flow Mixers	
23	29		29	2	4	X	Lids					11.77		
24	05		05	1	4							11.78		
25	07		07	2								11.64	Includes 8 Flow Mixers	
26	34		34	1								11.75	Includes 8 Flow Mixers	
27	25		25	2			Lids					11.94		
28	15		15	1								11.65	Includes 7 Flow Mixers	
29	37		37	2								11.94		
30	06		06	1								12.01	75% Complete	
31	11		11	2								11.60	Includes 8 Flow Mixers	
32	40		40	1								6.46	Includes 24 RCCAs	
33	38		38	2								6.45	Includes 24 RCCAs	
34	13		13	1								11.64	Includes 8 Flow Mixers	
35	17		17	2	4							11.69		
36	39		39	1								6.62	Includes 24 RCCAs	
37	32		32	2	3							11.84		
38	24		24	1	4							11.66		
39	28		28	2	4							11.73		
40	30		30	1	1							7.45	Incl. FRSC (10 Empty Cells)	
G3	43		43	2									Final GTCC	



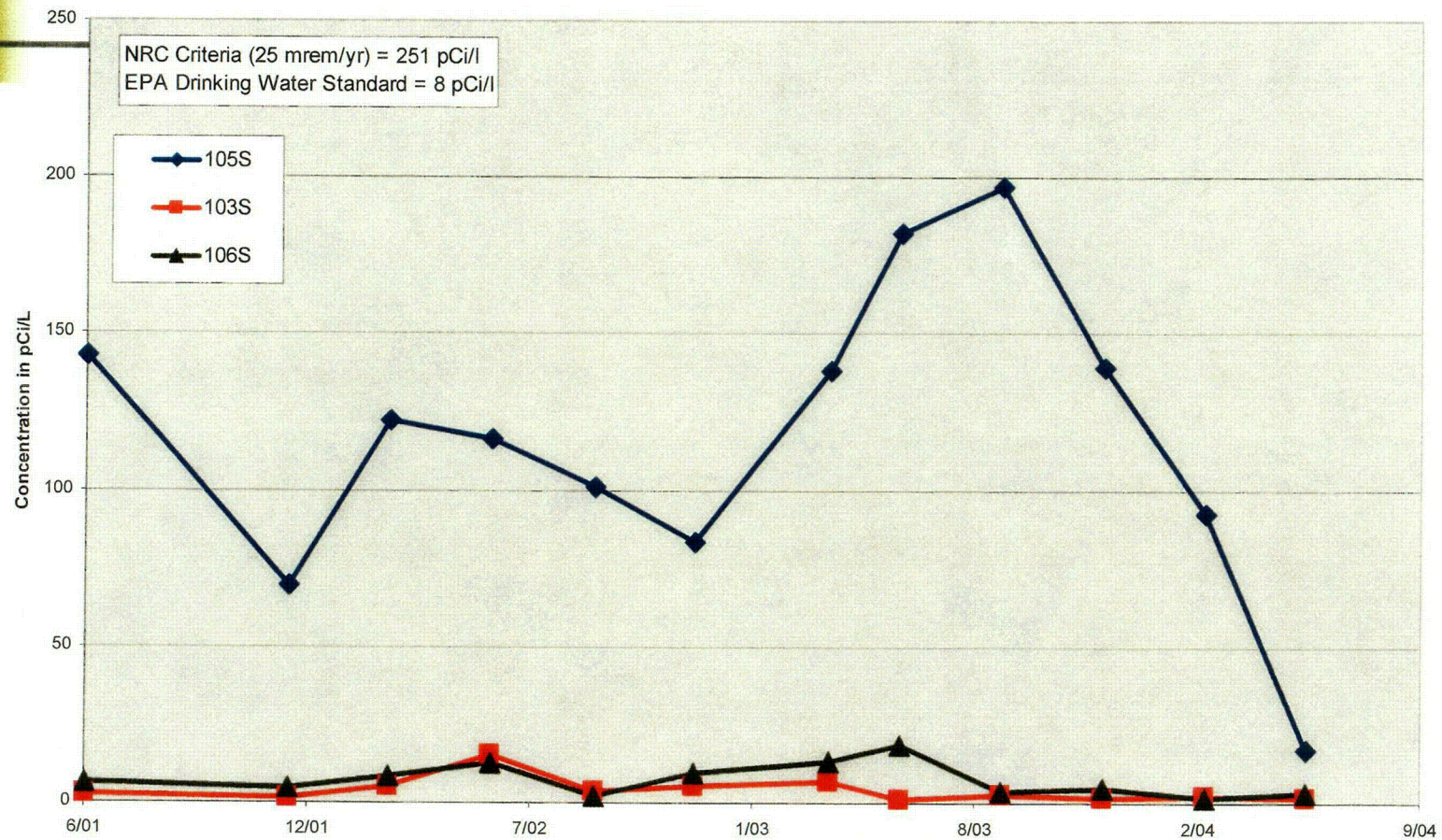
CY1

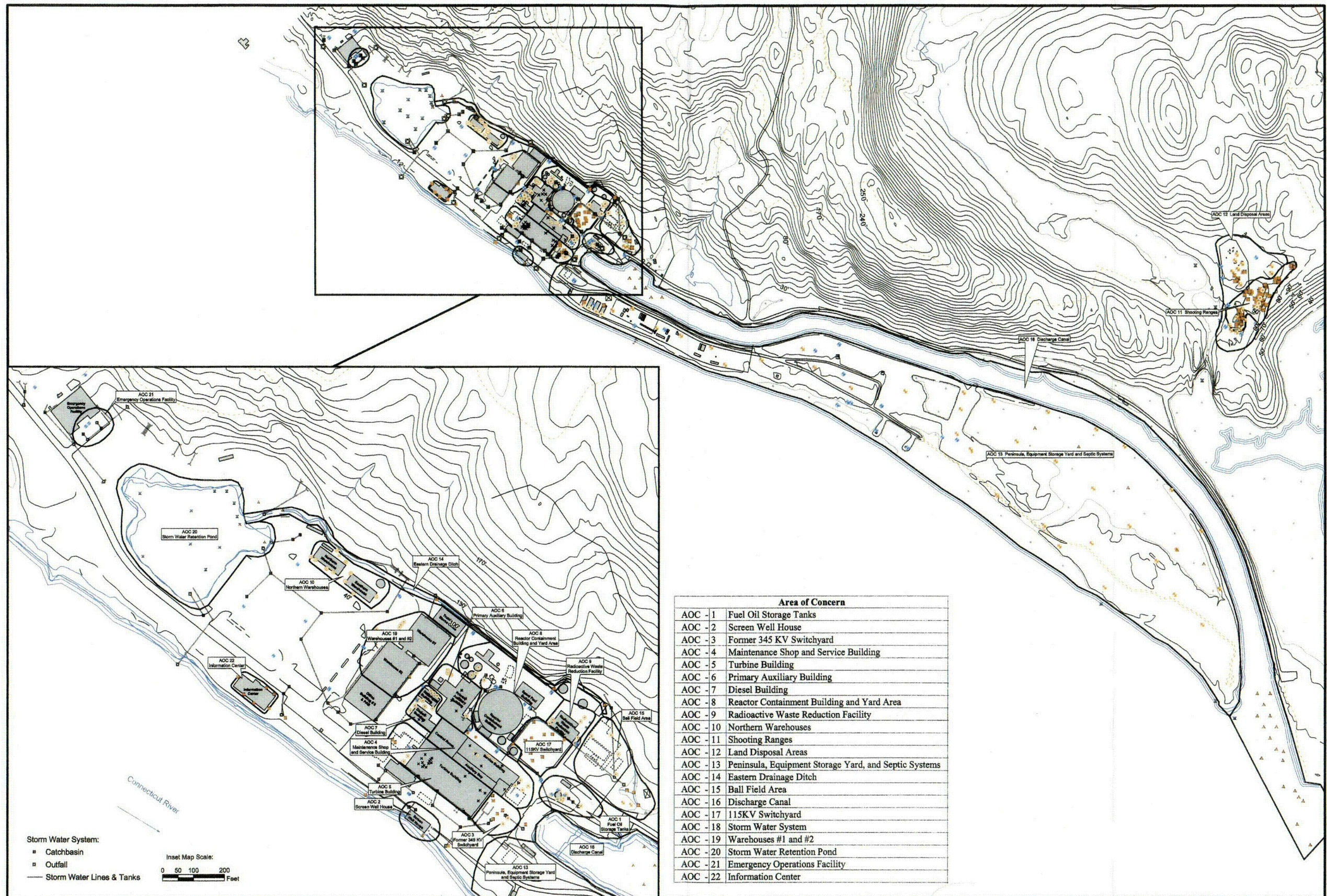


Tritium Trend



Strontium-90 Trend





Note: Base map provided by CYAPCO

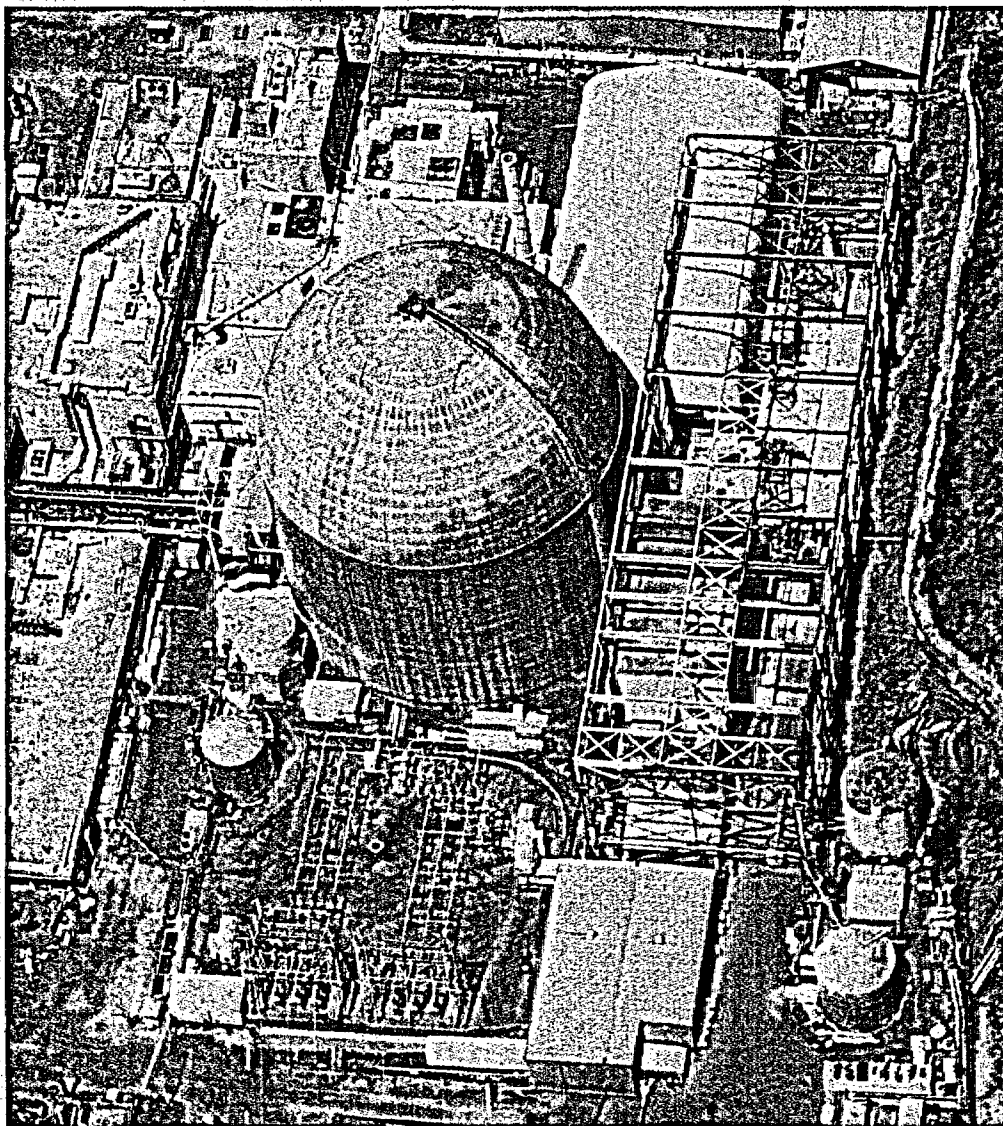
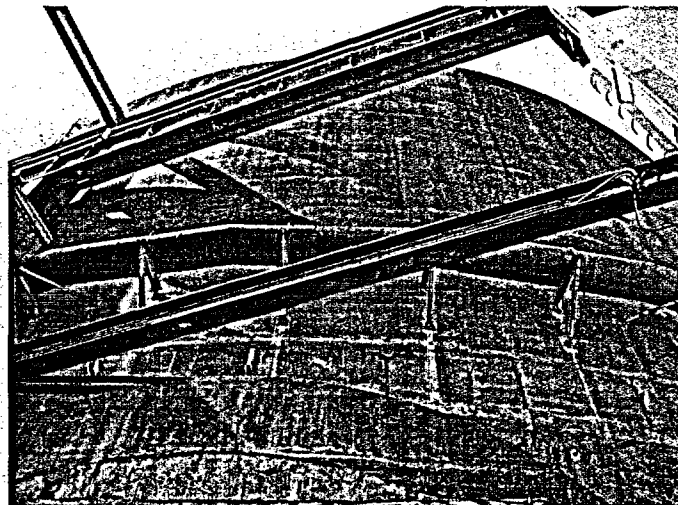
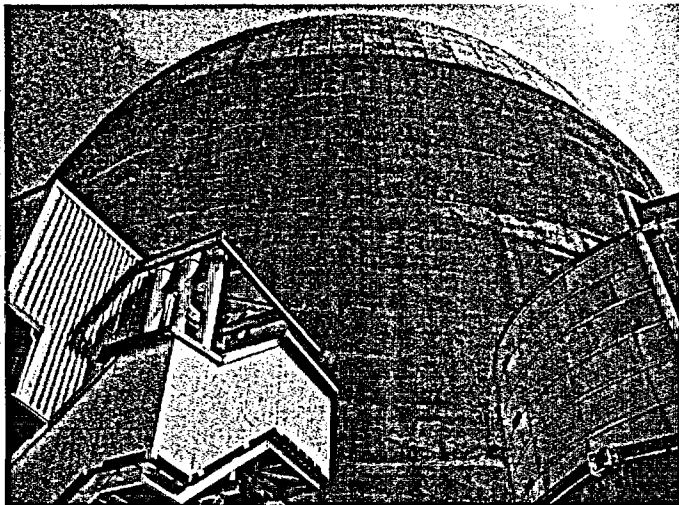


Legend

- 10' Contours (5' on Inset Map)
- Water
- Existing Buildings/Structures
- Former Buildings/Structures
- AOC Boundaries

Figure 3
Areas of Concern

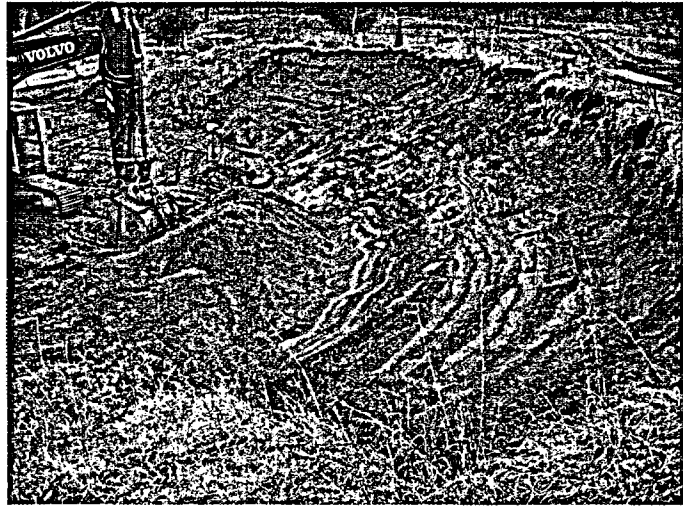
Study Design
CYAPCO, Haddam Neck Plant
Haddam, Connecticut
MACTEC, Inc.



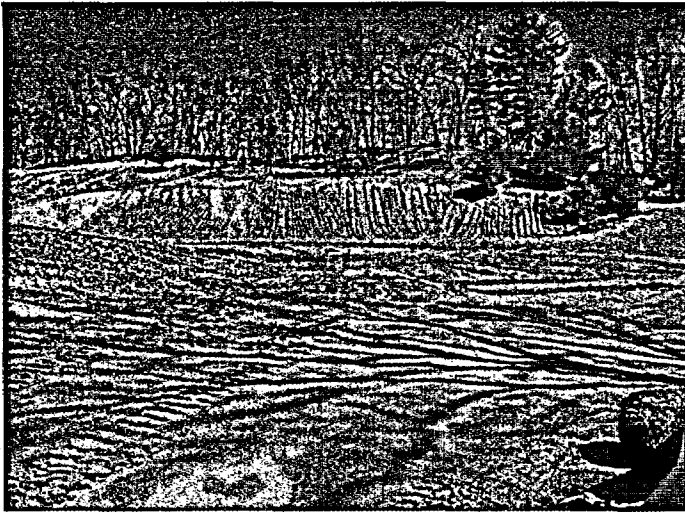
AOC 8. Reactor Containment
Bldg and Yard Area. June
2004.



AOC 11. Pistol Range. Fall 2003.



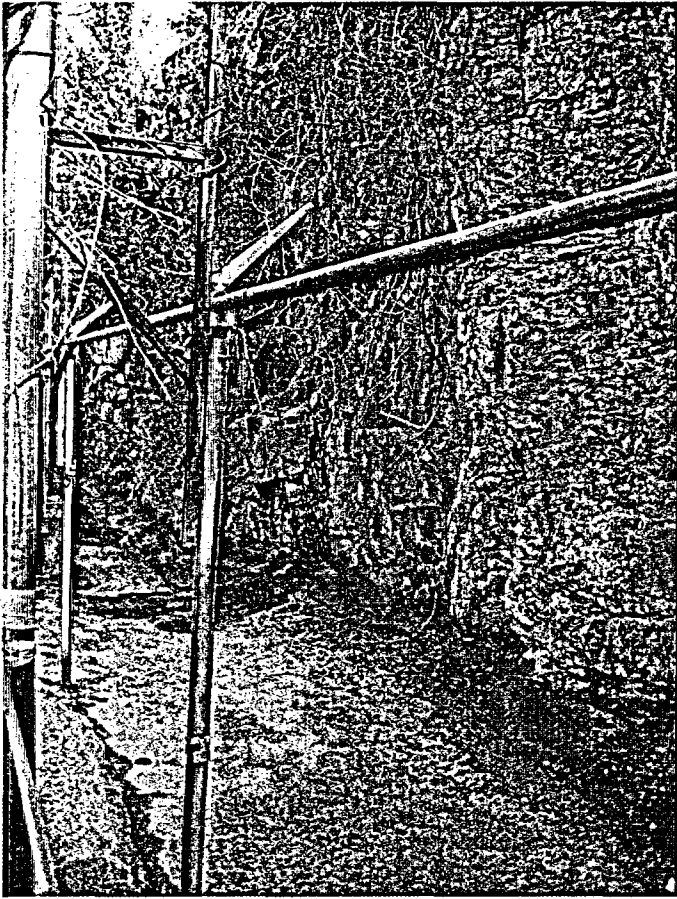
Shotgun Range making first remedial cut. Feb 2004.



Pistol Range post remediation. Spring 2004.



Shotgun Range post remediation. Spring 2004.



AOC 14. Eastern Drainage Ditch. In RCA and outside RCA looking north.

