

Department of Energy

Washington, DC 20585 March 1, 1996

Mr. John T. Conway Chairman Defense Nuclear Facilities Safety Board 625 Indiana Avenue, N.W. Suite 700 Washington, D.C. 20004

Dear Mr. Conway:

Your letter of January 31, 1996, to Assistant Secretary Grumbly expressed concern regarding the potential delay in meeting certain milestones for stabilization of solid residues at the Rocky Flats Environmental Technology Site. The detailed recovery plan addressing your concerns is enclosed as requested. The baseline schedule presented to your staff during their January 25, 1996, visit to Rocky Flats, shows a six-month slip in the stabilization of 10,000 kg of pyrochemical salt and a twelve-month slip in the stabilization of 4,000 kilograms of sand, slag, and crucible and graphite fines. The recovery plan outlines a set of initiatives that may reduce these schedule slips; however, the schedules presented are credible and given the present situation, represent an aggressive approach to stabilizing the salts and sand, slag and crucibles.

In addition to pursuing the initiatives discussed in the plan, the Rocky Flats Field Office is negotiating performance measures with Kaiser-Hill for Fiscal Year (FY) 1996 to provide incentives for completion of current year milestones that will ensure continued progress toward meeting outyear Recommendation 94-1 commitments. Similar measures will also be developed for FY 1997.

We remain committed to addressing the urgent risks identified in Recommendation 94-1, as expeditiously as possible, and will continue to pursue all potential options for schedule recovery.

Sincerely. Richard J. 'Guimond

Assistant Surgeon General, USPHS Principal Deputy Assistant Secretary for Environmental Management

Enclosure

Rocky Flats Solid Residue Stabilization Recovery Plan

for DNFSB Recommendation 94-1

Material Recovery Plans

Material Category:

Residue Pyro-chemical Salts

<u>Plan</u>

- The plan is to stabilize pyro-chemical salts using ten (10) pyro-chemical oxidation furnaces to be installed in Module "A" of Building 707.
- The current baseline schedule shows completion of the 10,000 kgs of high-hazard salts by 06/98. This represents a six month slip from the commitment made in the February 1995 submittal of the Implementation Plan
- Salts will be stabilized in Building 707 instead of Building 779. The basis for this decision is discussed in the summary section (page 8).

Schedule

See Attachment (1) for schedule of activities.

Assumptions. This schedule is based on the following set of assumptions:

- During construction and operations, building availability is assumed to be 70%.
- During construction, work load is assumed to be 2 shifts/day, 5 days/week, 12 hour shifts.
- During stabilization, equipment availability is assumed to be 90%, combined with an assumed building availability of 70%, would mean an integrated availability (building + equipment) of 60%.
- During stabilization operations work load is assumed to be 3 shifts/day, 5 days/week.
- These assumptions are consistent with data gathered in 1995 for processing material in Building 707 (viz: oxide stabilization).

Schedule Improvement Opportunities

Initiative:

Perform salt processing at other DOE sites, such as Los Alamos National Laboratory (LANL), in addition to processing salts at Rocky Flats.

Discussion:

Using other facilities in the DOE complex allows for an earlier start of stabilization at a site that has performed this type of operation as well as decreases the time required to process the salt backlog. LANL has the capability to process approximately 3,000 kg salt per year. Operations could commence at LANL in early 1997. There are a number of issues, such as the availability of shipping containers, shipper receiver agreements, etc. that still need to be resolved. This is being worked through the Nuclear Material Stabilization Task Group.

Affect on critical path:

Using another DOE facility to process material could provide for an early start on stabilization of the salt backlog by up to two months as well as reduce the baseline schedule slip by up to three months.

In addition, this would reduce programmatic risk as LANL represents additional capacity and capability in the event that Rocky Flats was unable to process materials for an extended period of time.

Key decision date:

- May 1996

Develop and implement an activity-specific Basis for Operations (BFO) for Building 707 residue processing.

Discussion:

A major contributor to Building 707 being unavailable to conduct Pu operations is due to the termination of operations when systems or equipment do not meet the requirements specified in the Limiting Conditions of Operation (LCOs). The LCOs in the current Operational Safety Requirements (OSRs) require that specific hardware configurations to be operable. These requirements may be overly conservative given the changes in the Building 707 mission. Analysis underway has the potential for supporting revisions to the LCOs and OSRs. This could increase the time available that Building 707 would be able to conduct Pu processing operations.

Affect on critical path:

The impacts of this initiative are not yet fully understood. Currently Building 707 is assumed to be available for operations 70% of the time. If this could be improved by 10%, this would mean that ability to perform construction and processing could be increased by 10%. This could mean a potential 10% decrease in baseline schedule slip. This could potentially decrease the salt schedule slip by up to six weeks and the SSC/graphite fines schedule slip by up to two months.

<u>Note</u>: This could have a similar affect on the critical path for processing SSC/graphite fines in Building 707 as well as wet combustibles in Building 371.

Key decision date:

This process is already underway. A new OSR for residue processing has been incentivize through Performance Measures for implementation in Building 707 by September 1996. Additionally, a new OSR for residue processing in B371 has been incentivized as a Performance Measure for July 1996.

Develop alternate paths to acquire and install calorimetric measuring equipment in Building 707 that can reduce the dependance on long-lead procurement items.

Discussion:

Two paths are being pursued to provide for early calorimetry capability for residue processing. These paths are (1) lease equipment from the Mound Site for temporary usage during installation of permanent equipment, and (2) relocate some equipment from Building 771 to Building 707. Relocated calorimeters would require upgrades to the computer system and could require support system modification.

Affect on critical path:

This action is not expected to reduce the critical path duration/schedule slip. However this can reduce programmatic uncertainty as there are multiple paths being pursued to acquire necessary measuring capability which is a pre-requisite to performing stabilization operations.

Key decision date:

This path is being pursued. Rocky Flats will know the affects of this initiative by July 1996; at that point Rocky Flats should have the calorimetric equipment relocated and installed in Building 707 ready to test.

Accelerate the process for DOE evaluating work-place performance.

Discussion:

Readiness reviews required to start operations are planned to take up to 16 weeks and are on the critical path. A substantial reduction in duration in this activity may be possible without negatively impacting the scope or integrity of the process by performing an initial readiness assessment of a facility for a particular operation, continually assessing and monitoring the readiness of that facility, and then only reviewing the specific operation and changes to the facility caused by the additional operation that are to be started.

Affect on critical path:

As the readiness review is the final activity to be performed before actual processing, any decrease in the duration of this activity would mean a day-for-day reduction in the slip to the baseline schedule. If the readiness review duration was shortened by one-third, this could decrease the schedule slip by 5 weeks.

<u>Note</u>: This could have a similar affect on the critical path for processing SSC/graphite fines.

Key decision date:

This activity is under development based on improved and adequate processes in practice at other DOE sites. Rocky Flats will know the affects of this by December 1996.

Improve the Nuclear Criticality Safety (NCS) process for development of criticality evaluations.

Discussion:

There are three (3) areas being worked to decrease the time required to develop criticality evaluations and increase the resources available for development of criticality evaluations. These include: (a) improving the criticality evaluation process (e.g. planning, scheduling, and communications), (b) better utilizing existing NCS resources by working criticality engineers in teams with senior personnel being assigned as mentors, and (c) assigning criticality safety officers to facilities to provide qualified criticality engineers with better process information for developing criticality evaluations.

Affect on critical path:

Criticality evaluations are on the critical path. Any decrease in duration would either decrease the schedule slip or decrease the programmatic risk associated with completing the processing as the site has a history that indicates completing criticality evaluations has a high probability of impacting schedule.

Key decision date:

This process is already underway. An assessment on the effectiveness of this initiative will be available by August 1996.

Performance Measures

FY 96 Performance Measures under negotiation	
Site preparation	
•Start site preparation	
•Complete removal of one (1) glove box from "A" module gloveline	06/96
•Complete removal of one (1) pump down table from "F" module	06/96
•Complete strip-out/site preparation of "A" module	09/96
•Complete Building 707 Basis for Operations for treating residue salts	09/96
Construction	
•Start construction in "A" module (the construction work order in place)	07/96

Construction	
•Salt construction phase complete	04/97
Processing	
•Start salt processing-first salt run complete in "A" module	08/97
•Complete treatment of 500 kg salt	09/97
•Complete treatment of 2,000 kg salt	10/97
•Complete treatment of 4,000 kg salt	12/97
•Complete treatment of 10,000 kg salt	06/98

Summary

- The February 1995 submittal of the Implementation Plan committed to stabilizing 6,000 kg of high-hazard salt by May 1997 and the remaining 4,000 kg of higher-hazard salt by December 1997 using newly installed pyrochemical oxidation furnaces in Building 779.
- The current path forward will install pyrochemical oxidation furnaces in "A" module of Building 707. The first 10,000 kg of this material will be stabilized by June 1998 (6 month slip).
- There are five (5) initiatives that Rocky Flats is pursuing to minimize schedule slip or to reduce the programmatic risk of completing salt stabilization activities. Relocating calorimetric equipment and improving the Nuclear Criticality Safety process are looked at minimizing schedule/programmatic risk, while potentially stabilizing salts at LANL, implementing activity-specific authorization basis, and improving the readiness review process may be able to decrease schedule slip. Although the affects of these initiatives are not fully known at this time, DOE is committed to improve the baseline schedule wherever and whenever possible.
- Building 707 was chosen over Building 779 for the following reasons:
 - a. The known condition of the safety systems in Building 707.
 - b. The well-established/well disciplined infrastructure of Building 707.
 - c. The upgrades to Module "A" to resumption standards and the successful completion of two DOE operational readiness reviews.
 - d. The operating history of Building 707 as this building, unlike Building 779, has a proven track record over the past year in conducting Pu operations.
 - e. Stabilizing salts in Building 779 would not have decreased the schedule slip due to the extensive material and infrastructure upgrades that would have been required to start up pyrochemical stabilization activities.
- Rocky Flats will buy new furnaces rather than relocate furnaces from Building 779.
 Relocating furnaces that are installed in Building 779 would have not decreased the schedule slip nor have decreased the cost of the project. In addition, the relocation of older equipment would not have been as reliable as installing new furnaces.
- Rocky Flats will use performance measures, as described, in FY96 to incentivize completion
 of intermediate milestones as well as to try to pull back the baseline schedule discussed above.
 Performance measures for FY 97 and FY 98, also as discussed, will be developed and made
 part of the Performance Measure process.

Material Category:

Residue Ash: Sand, slag, & crucible and graphite fines.

<u>Plan</u>

- The plan for sand, slag & crucible (SSC) and graphite fines is to calcine these materials using eight (8) muffle furnaces to be installed in Module "E" of Building 707. Current schedules show completion of 4,000 kgs of this material by 05/98.
- This represents a twelve month (12) slip to the commitment made in the February 1995 submittal of the Implementation Plan as well as using newly installed furnaces in Building 707.

Schedule

See Attachment (1) for schedule of activities.

Assumptions This schedule is based on the following set of assumptions

- During construction and operations, building availability is assumed to be 70%.
- During construction, work load is assumed to be 2 shifts/day, 5 days/week, 12 hour shifts.
- During stabilization, equipment availability is assumed to be 90%, combined with an assumed building availability of 70%, would mean an integrated availability (building + equipment) of 60%.
- During stabilization operations work load is assumed to be 3 shifts/day, 5 days/week.
- Developing process parameters is being done concurrently with Title I design and will have no impact on Title II design.
- These assumptions are consistent with data gathered in 1995 for processing material in Building 707 (viz: oxide stabilization).

Schedule Improvement Opportunities

Initiative:

Process SSC/graphite fines in J-25 and/or J-60 in Building 707.

Discussion:

Processing SSC/graphite fines in J-25 and/or J-60 would provide for an accelerated start of processing high-risk materials. The through-put for these furnaces are assumed to be 1.5 kg/run and 1 run/shift and it is assumed that the required calcining temperatures for SSC/graphite fines are within the operating ranges of J-25 and J-60. These parameters will be confirmed and processing could be started after evaluating data obtained from the feasibility study (a FY 96 Performance Measure) scheduled to be completed 06/96. This activity would need to be coordinated with ongoing oxide stabilization activities, as these are the same furnaces used for those operations as well as coordinated with the installation of the 3013 metal and oxide bagless transfer system, that is also scheduled to be installed in "J" module.

Affect on critical path:

This initiative would allow for an early start by approximately six months (compared to baseline) for processing of SSC/graphite fines. If it is feasible to process materials in these furnaces, up to 400 kgs (10% of the SSC backlog) of material could be processed before the newly installed muffle furnaces become operational in "E" module which could mean a one month decrease in schedule slip.

Key decision date:

Data from the feasibility study is expected to be ready by 06/96. Based on this data, a key decision on using J-25/J-60 will be made by 07/96.

Note:

As discussed in the salt material recovery section, improving the Nuclear Criticality Safety process, implementing activity-specific authorization basis, and improving the readiness review process may be able to decrease the schedule slip for processing these materials.

Performance Measures

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FY 96 Performance Measures under negotiation	
Treatability Study	
•Complete SSC/graphite fines treatability study	06/96
Site Preparation	
•Start site preparation	
Initiate ash site preparation-first piece of equipment in module "E" removed	07/96
•Complete ash site preparation to allow for start of construction	09/96
FY 97/98 Performance Measures that will be considered/negotiated:	
Site Preparation	
•Ash site preparation complete	10/96
Construction	
•Ash construction complete	02/97
Processing	
•Start processing SSC/graphite fines in "E" module	09/97
•Complete treatment of 300 kg SSC/GF	09/97
•Complete treatment of 1,000 kg SSC/GF	12/97
•Complete treatment of 4,000 kg SSC/GF	05/98

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Summary

- The February 1995 submittal of the Implementation Plan committed to stabilizing 4,000 kg of high hazard SSC and graphite fines by May 1997 using furnaces in Building 707.
- The current path forward will install muffle furnaces in "E" module of Building 707. The 4,000 kg of high-hazard material will be completed by May 1998 (12 month slip).
- There are four (4) initiatives that Rocky Flats is pursuing to minimize schedule slip or to reduce the programmatic risk of completing SSC/graphite fine stabilization activities. Improving the Nuclear Criticality Safety process is looked at minimizing schedule risks, while potentially stabilizing SSC and graphite fine in B707 "J" module, implementing activity-specific authorization basis, and improving the readiness review process may be able to decrease the schedule slip. Although the affects of these initiatives are not fully known at this time, DOE is committed to improve the baseline schedule where ever and whenever possible.
- Rocky Flats will use performance measures, as discussed, in FY96 to incentivize completion of intermediate milestones as well as to try to pull back the baseline schedule discussed above.
 Performance measures for FY97 and FY98, also as discussed, will be developed and made part of the Performance Measure process.

Material Category:

Combustibles

<u>Plan</u>

- The plan for combustibles is to stabilize the high-hazard (wet combustibles) in Buildings 774 and 371 by:
 - (a) cementing ion exchange resin beads using the bottle-box process in B774 (268 kg).
 - (b) microwave solidification of oily sludge (7 kg).
 - (c) washing and drying wet inorganic combustibles (approx. 11,000 kg).
 - (d) low temperature thermal desorption wet organic combustibles (approx. 2,100 kg).
- Current schedules show completion of all high-hazard material (11,500 kgs) of this material by 11/98, as committed to in the IP.
- Performance Measures for FY96 are being negotiated for expedited treatment of (a) ion exchange resins, (b) oily sludge, and (c) acid contaminated leaded-rubber gloves.
- This represents a decision on the technologies that will be used for the path-forward in treating these materials. A combustible trade study, now in progress and expected to be completed in June, may change the method of treatment. Ongoing research and development of these technologies will be continued on a complex-wide basis and coordinated through the Nuclear Material Stabilization Task Group:
 - (a) Pyrolysis
 - (b) Chemical and wet chemical oxidation
- Rocky Flats will repackage dry combustibles in vented containers without further treatment as these materials can meet interim safe storage criteria by repackaging.

Program Management Structure

The management structure within the Department of Energy at Rocky Flats has been established in that the Mission Advocacy Organization is the single point-of-contact for all matters relating to 94-1 to the Manager and is the primary interface and point of contact with DOE Headquarters, the Nuclear Material Stabilization Task Group, the Defense Nuclear Facilities Safety Board, etc..

Within the Rocky Flats Field Office, Mission Advocacy will continue to work with the Environmental Health & Safety Program Assessment (ESHPA) and the Strategy, Integration, & Guidance (SIG) organizations in all phases of work from setting Performance Measures to monitoring the contractor against its baseline to awarding incentive fee for completing milestones. This includes providing real-time recommendations to the RFFO manager concerning policy, direction, and guidance to the contractor that may be needed to ensure 94-1 commitments continue to be technically sound and that adequate progress is being made to meet stabilization objectives. A diagram of the organizational structure is included below:

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7044102180	Remiest KD-3		1005096		<u>11</u>	
2044102190	C\P Design Co	molete	10020 0	10 101027		
2044102402	Receive KD-3	C/R (Iitle III Engineering Comple	to	10 10997	<u> </u>	4 I X
7044102702	C/R T-111 Foc	vincering	905096	13 111197	135	
				10001111		IPROCINEMENT
7044103600	Cons Proc 5	ite Pres Ash	2300896	21M0Y96	21	
7C44103601	Cons Proc S	ite Prep Ash Avard		21/14/196	<u> </u>	
7C44103602	Cons Proc -As	h	2290696	239FP46	20	
7C44103603	Cons Proc D	ry Comb-inorg/Repark Site Pres	2.1096	5.00.46	21	
7C44103604	Cons Proc D	ry Comb-inorg/Repark	20FC96	3.10097	25	
7044103110	Long-lead pro	curement-Ash	22JAN96A	7FEB97	275	
7044103120	NDA specs-ash	Procurement Documentation	22 JAN96A	16FFB96	20	
7044103130	Very long-lea	d NDA Procurement - Ash	19FEB96	7FEB97	255	
7044103140	Very long-lea	d NDA Delivered - Ash		7FEB97	0	
7C44103150	long-lead NDA	Delivery - Ash	19FEB96	22N0V96	200	
7C44103160	long-lead NDA	Delivered - Ash		22N0V96	0	
7C44103210	Long-Lead Pro	curement Dry Comb-inong/Repack	22 JAN96A	7FEB97	275	······································
7044103220	NDA Specs-Com	bustibles/Repack & Proc Doc.	22 JAN 96A	16FEB96	20	
7C44103230	Very long-lea	d NDA Procurement - CR	19FEB96	7FEB97	255	
7C44103240	Very long-lea	d NDA Delivered - CR		7FEB97	0	
7C44103250	long-lead NDA	Delivery - CR	19FEB96	22N0V96	200	
7C44103260	long-lead NDA	Delivered - CR		55N0A46	0	
						CONSTRUCTION MANAGEMENT
7044104000	Construction	Mgt Spt -Ash	21119796	12MAY97	255	
7044104110	INCP Ash Site	Preparation	21MAY96	17JUN96	20	
7044104120	INCP-Ash		105EP96	700196	20	
7044104130	Construction	Mgt Spt-Ash	21 MAY 96	12MAY97	255	
7044104200	Construction	Mgt Spt-Dry Comb-inorg/Repack	SJUL96	13JUN97	246	
7044104210	INCP-Conbusti	bles/Repack Site Preparation	5,01,96	2940696	40	
7044104220	INCP-Conbusti	bles/Repack	<u>ADECAE</u>	7JAN97	22	
DOLLAR	A 1 1 1	Mot Sat-Combustibles/Oenack	5 811 96	13JUN97	246	
7044104230	Construction	THE OPT WIDDSTIDLES REPORT				
7044104230	Construction					
7C44104230 7C44105000	Construction Ash Construct		18JUN96	12MAY97	235	
7C44104230 7C44105000 7C44105110	Construction Ash Construct Site Preparat	Ion ion - Ash	18JUN96 18JUN96	12MAY97 70C196	235 80	
7C44104230 7C44105000 7C44105110 Retivity Classificatio Ben HeeroCx	Construction Ash Construct Site Preparat	Ion ion - Ash	18JUN96 18JUN96	12MAY97 70CT96	235 80	
7C44104230 7C44105000 7C44105110 Retivity Classificatio EEE MANDOX	Construction Ash Construct Site Preparat	ion ion - Ash	18JUN96 18JUN96	12MAY97 70C196	235 80	CONSTRUCTION
7C44104230 7C44105000 7C44105110 Activity Classificatio EEE MANDOX Plot Date Data Data	Construction Ash Construct Site Preparat an User Defined 2 115FEB96	ion - Ash	18JUN96 18JUN96 18JUN96	12MAY97 700196	235 80 DEET	CONSTRUCTION
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					CONSTRUCTION
7044105120	Construction-Ash	800196	10MAR97	110	
7044105130	Install Long-Lead Ash	11/149297	7APR97	20	<u></u>
7011105110	Ash Facility Construction lesting	88447	12MAY97	25	
7044105150	Project Acceptance & Iransfer Ash		12MA197	0	
7044105200	Ury Lond-inorg/Repack Construction	<u>30AUG96</u>	<u>13JUN97</u>	206	
7044105210	Site Preparation - Cond/Repack	30AUG96	2JAN97	40	
7041105220	Construction-Conb/Repack	13JAN97	16MAY97	90	
2011105230	lesting -comb/Repack	19119197	13JUN97		
7644105240	Project Acceptance & Transfer - Lond/Repack		1 JJUN97	0	
2641000620	Aph Department and Taxing	1100000	1044407		PRUCEDURES/TRAINING/STARTUP
7641000622		1100000	12714147		
7641000624		11 HP1CH0	5JUN96	40	
7641000626	Procedures	2342640	£ 101/07	120	
7641040628	Insiding For Ocenational Accessment	2 0107	1 2MAX07		
2641000629	Insining for Operations	1000007	2001/02	110	
2641000640	New Conth-Locco/Repark Procedures and Institute		1211017	366	
7641060642	ALARA REVIEW	6 11 10 6	21 111 96	40	
7641080644	CSDI s	6 IUN96	20NDV96	120	
7641000645	Procedures	2755504	1955847	100	
76410A0648	Training for Operational Assessment	2155897	12 11197	80	
76410A0649	Training for Operations	1862897	100197	119	
					OPERATIONAL ASSESSMENT
76410A0720	Ash	1300197	1SEP97	80	
76410A0722	Ash Operational Assessment	13/19/97	19EP97	80	
76410A0724	Ash Operationally Ready		15EP97	0	
76410A0740	Dry Comb-inong/Repack	16JUN97	30C197	80	
76410A0742	Dry Comb-inorg/Repack Operational Assessment	16JUN97	30CT47	80	
76410A0744	Dry Comb-inorg/Repack Operationally Ready		300147	0	
		· · · · · · · · · · · · · · · · · · ·			OPERATIONS
76410A0725	Ash Operations	25EP97	30MAY02	1238	
76410A0745	Dry Comb-inorg/Repack Operations	6DCT97	30MAY02	1214	
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Plot Date	15FEB96 Detivity BaryEarly Bates	200			Sheet 3 of 3
Data Date	11FEB96 Critical Activity			REFT	
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	ACTIVITY	EARLY	EARLY	ORIG	6 1995 1996 1997
ACTIVITY ID	DESCRIPTION	START	LINICH	DUK	<u> </u>
					CONCEPTUAL DESIGN MANAGEMENT
76410A0233	<u>Net-371 Conceptual Design</u>	27N0V95A	150EC95A	15	
76410A0247	Net Systems Effectiveness	22 JAN 96A	5949846	55	
064400000		1 FHAVAC	005007		
76410A0430	Activity Control Envelope-Wet-371	15/14140	2UEC46	144	
70110H0131	Process Flow Diagram	15/14146		4	
76410H0432	Process Hazard Assessment	21714190	1500140	40	
7641000434	Performance Expectations	1000140	000004		╬┥┊ <mark>┝</mark> ┱
7641000425	Perelop Standa Us List	10000	000006	20	
7641000436		1340040	0000000	~ 20	
7641000432	Fordinate Authorization Ancesent	1300696	206096		
7641080438	Cross Table Review	1055296	169-296	š	
7641090439	Obtain Authorization Appendent	10321 10	20FC96	Ő	
				<u>`</u>	DESTGN MANAGEMENT
76410A0518	Design Criteria Wet-371	27N0V95A	6DEC95A	8	8 8
					PROJECT MANAGEMENT
7C44201100	PM Support-Wet/371	15DEC95A	fJUL97	406	6
					ENGINEERING
7044202000	Ket/371 Engineering	180EC95A	3JUL 97	404	1
7C44202100	Wet T-1 Engineering	1 BDEC95A	5JUN96	124	
7C44202110	Wet 60% T-I Design	180EC95A	8MAR96	60	
7044202120	Ket 90% I-I Design	111/19896	3MAY96	40	
7044202130	Ket 90% I-I Review	6MAY96	17MAY96	10	
7044202140	Ket T-I Revisions as appropriate	20 11 9796	6JUN96	14	
7044202150	Ket T-1 Complete		6JUN96	0	
7044202160	Request KD-2 Wet		17MAY96	0	
7044202201	<u>Receive KD-2 Wet (Title I Engeering Complete)</u>		<u>6JUN96</u>	0	
7044202310	Wet I-II Engineering	7JUN96	265EP96	80	
7044202320	Ket 60% III Design	7JUN96	14AUG96	49	
7044202330	Net 40% III Design	1580646	1152296		
7044202340	WET HUN III REVIEW	12567-16	12562946		
2041202350	Net III Revisions as appropriate	2036140	2036790	<u> </u>	
7044202300	Ret III Complete		10000100	0	
2044202370	Request ND-3 Wet		123EF 10		
7044202101	Net Tall Engineering complete	2001006	20,00,00	220	
1011202100		30400-10	3301 17	220	
7044203600	Cons Proc Site Pres Vet/371	1000196	7.IUN96	21	
7044203601	Cons Proc Site Prep Wet/371 Avard		2JUN96	<u> </u>	
7044203602	Cons Proc Vet/371	1680696	195EP96	25	
7044203110	Long-Lead Procurement Wet/371	22,100960	2FEB97	275	5
7044203120	NDA Specs-Net/371/Propurement Documentation	22 JAN 964	16FEB96	20	
7C44203130	Very long-lead NDA Delivery - Wet	19FEB96	7FEB97	255	5
7044203140	Very long-lead NDA Delivered - Wet		7FEB97	0	<u>0</u>
7044203150	long-lead NDA Delivery - Wet	19FEB96	22NDV96	200	
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		EPC			Sheet 1 of 2
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Zet4203165 Lorg-Lead NAh Del Leend - Vet 280/04/04/04 Zet4203165 Lorg-Lead NAh Del Leend - Vet 280/04/04/04 Chast Nucl O at Mexico Period Zet420110 Lid 2 Vet/271 Status Transmission 7.004/6 1.002/04/04/04 Chast Nucl O at Mexico Period Zet420110 Lid 2 Vet/271 Status Transmission 7.004/6 1.002/04/04/04 Chast Nucl O at Mexico Period Zet420110 Lid 2 Vet/271 Status Transmission 7.004/6 1.002/04/04/04 Chast Nucl O at Mexico Period Zet420110 Lid 2 Vet/271 Status Transmission 2.002/04/04/04 Chast Nucl O at Mexico Period Chast Nucl O at Mexico Period Zet42010 Status Transmission Period Status Transmission Chast Nucl O at Mexico Period Chast Nucl O at Mexico Period Zet42010 Status Transmission Status Transmission Chast Nucl O at Mexico Period Chast Nucl O at Mexico Period Zet42010 Status Transmission Status Transmission Status Transmission Chast Nucl O at Mexico Period Chast Nucl O at Mexico Period Zet42010 Status Transmission Status Transmission Status Transmission Chast Nucl O a	ACTIVITY ID	DESCRIPTION	START	FINISH	DUR	
72:4422160 Jorg-Jeed Mith Delivered - Ket 280/Y66 0 72:4422160 Const Nath Delivered - Ket 740/Y66 0 72:4422160 Const Nath Delivered - Ket 740/Y66 0 74:423110 Log Y Leg 71 740/Y66 0 74:423112 Log Y Leg 71 240/Y66 0 74:423112 Log Y Leg 71 240/Y66 0 74:423120 Log Y Leg 71 240/Y66 0 74:423510 Log Y Leg 71 240/Y66 0 74:423510 Log Y Leg 71 240/Y67 240 74:423510 Log Y Leg 71 240/Y67 240 74:423510 Log Y Leg 71 240/Y77 240/Y77 74:423510 Log Y Leg 71 240/Y77 240/Y77 74:400520 Log Y Leg 71 240/Y77 240/Y77 74:400520 Log Y Leg 71 240/Y77 240/Y77 74:400520 Log Y Leg						
Control Construct of Mark Spt - Vel/271 72.4465 2.400 - CONSTRUCT (04 HANGE HAT Control Construct of Mark Spt - Vel/271 72.4465 3.000 - 200 2.000 - 200 Construct of Mark Spt - Vel/271 72.4465 3.000 - 200 2.000 - 200 2.000 - 200 Construct of Mark Spt - Vel/271 72.4465 3.000 - 200 2.000 - 20	2044203160	long-lead NDA Delivered - Wet		2200196	0	
27:4264000 Creat for 1 = for 1 = ke1/271 200464 200467 200477 200477 200477 200477 200477 200477 200477 200477 200477 </td <td></td> <td>1013 1000 ANT PETTER 20 ACT</td> <td> <u> </u></td> <td></td> <td>V</td> <td>CONSTRUCTION MONOGEMENT</td>		1013 1000 ANT PETTER 20 ACT	<u> </u>		V	CONSTRUCTION MONOGEMENT
22449410 Lip2 Processoration 210945 104/66 10 22449412 Lip2 Construction Not Vet/271 724947 204/046 100 72449412 Lip2 Construction Not Vet/271 724947 204/046 100 72449120 Construction Not Vet/271 724947 204/046 100 72449120 Construction Not Vet/271 204/046 204/047 204/046 72449120 Construction Not Vet/271 204/046 100 724190621 Construction Not Vet/271 204/046 100 724190623 Construction Not Vet/271 104/047 201/07 100 724190624 Construction Not Vet/271 104/047 201/07 100 724190624 Construction Not Vet/271 104/047 201/07 100 724190624 Construction Not Vet/271 100/07 201/07 100 <tr< td=""><td>2044204000</td><td>Coost Not Sot -Vet/321</td><td>2 111996</td><td>3 111 97</td><td>280</td><td></td></tr<>	2044204000	Coost Not Sot -Vet/321	2 111996	3 111 97	280	
224420120 U02 Bit 271 L102 Linex 200078 302 200078 302 224420130 Construction hugt Let/271 200078 30177 200 Construction 200078 30177 200 22442010 Site Arganation - Vet 20078 3027 302 Construction-Arganation - Vet 20078 3027 300 22442010 Site Arganation - Vet 20078 3027 300 20078 300 20078 300 224420510 Site Arganation - Vet 20078 30077 200 PROCEDURE / IRRINING/STARUP 724420510 Site Arganation - Vet 30079 400 30079 300 724420510 Site Arganation - Vet 30079 100 PROCEDURE / IRRINING/STARUP 724420510 Site Arganation - Vet 30079 100 PROCEDURE / IRRINING/STARUP 724100030 Vet-371 Constitution - Vet/31 30079 100 724100030 Constitution - Vet/31 30079 100 30079 100 724100030 Vet-371 Constitution - Vet/31 30079 0 724100030 Vet.0perational Sasesment 40079 200197 0 0 724100272 Vet.0perational Sasesment 40079 200197 0 0 72410	2044204110	IV/P Vet/321 Site Preparation	2 1111006	101096	40	
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27442500 Hert/71 Loverhartion 20074 32007 32	7011201130		7 301110	300117	200	
274426310 Site Properties 2000000000000000000000000000000000000	2044205000	Net/271 Constantion	2011004	2 111 97	240	
224435120 Construction Met 1/271 2084074 201 224435120 Construction Met 1/271 6.00477 201 720 224100422 Andre Review 2201/97 20 720 224100423 CSBLs 72700 201/97 20 224100423 CSBLs 72700 201/97 20 724100423 CSBLs 72000 720 70 724100423 CSBLs 72000 70 70 724100423 Fraining for Operational Assessment 4.0047 2000177 70 724100423 Ket Operational Assessment 4.0047 2000177 70 7241004723 Ket Operational Assessment 4.0047 2000177 70 7241004725 Ket Operational Assessment 4.0047 2000170	2044205110	Site Prenanation - Vet	20010	1005004	100	
224425130 Festion-Net (27) County 300 477 201 224425140 Project Acceptance and Transfer - Ket 300 477 0 224425140 Project Acceptance and Transfer - Ket 300 477 0 2241000530 Net-271 Processore and Transfer - Ket 300 477 0 2241000532 ALWAR KYLEK 310 477 40 2241000532 Procedures 230 477 10 2241000532 Training For Decrational Assessment 4,00 477 11 241000532 Training For Decrational Assessment 4,00 477 10 241000532 Training For Decrational Assessment 4,00 477 200 477 241000532 Vet Decrational Assessment 4,00 477 200 477 24001727 2400 470 0 0 24100733 <td< td=""><td>2044205120</td><td>Construction-Wet/321</td><td>2005006</td><td>5 111020 10</td><td>120</td><td></td></td<>	2044205120	Construction-Wet/321	2005006	5 111020 10	120	
24426510 Peaker Accelerations and Training 20147 0 744120510 Project Accelerations and Training 20147 0 744120510 Percedures and Training 20147 0 744120510 Percedures and Training 20147 0 744120510 Percedures 20147 0 744120520 Percedures 20147 0 744120520 Ve1 Operational Assessment 4,007 20147 0 7541002720 Ve1 Operational Assessment 4,007 20147 0 7541002720 Ve1 Operational Assessment 4,007 20147 0 7541002735 Ve1 Operational Assessment 4,007 304902 1200 7541004735 Ve1 Operational 2490147 304902 1200 7541004735 <td>2044205130</td> <td>Testino-Het/371</td> <td>6 HINO7</td> <td>2 811 07</td> <td>20</td> <td></td>	2044205130	Testino-Het/371	6 HINO7	2 811 07	20	
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24100620 Net-371 Proceedures and Training 12FEB96 2JU/9 64 24100622 R.KMR REVIEW 12FEB96 2JU/9 64 74100630 Procedures 2AU/5 2AU/6 40 74100630 Procedures 2AU/5 16MHY 12 74100730 Vet Operational Assessment 4JU/9 200197 00 761100734 Vet Operational Resessment 2400197 200197 00 761100735 Vet Operational 2400197 2400197 200197 00 76100735 Vet Operational 2400197 2400197 2012 2 2012 70100 Think Minit Think Minit	7011203110			330147	<u> </u>	
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Data Date 11FEB96 Project Start 2N0V95 Project Finish 30MAY02 (c) Project Start Systems, Loc	Activity Classificat	ion: User Defined 2				
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Project Finish 30MAY02 KESIDUE ELIMINHITUN PRUJEUTS (c) Primavera Systems, Toc WET SCHEDULE	Activity Classificat EXEN NOVEOCK Plot Date Data Date	15FEB96 Petivity Bar/Early Dates	REPC		RFET	Sheet 2 of 2
(c) Polazyera Systems, Toc	Activity Classificat BUT NOMBOCK Plot Date Data Date Project Start	ISFEB96 TFEB96 7N0V95 0//// Progress Bor Hilestone/Tag Activity	RDC		RFET	Sheet 2 of 2 S Date Revision Checker
(c) Prinavera Systems, Toc	Activity Classificat EN XMPOCK Plot Date Data Date Project Start Project Finish	ISFEB96 TFEB96 7NOV95 30MAYO2 Chilical Activity Bar/Early Dates Activity Bar/Early Dates Critical Activity Progress Bar Hilestone/Flag Activity	REPC	IDUE EL	RFET	S Steel 2 of 2 S Date Revision Checke
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ACTIVITY	ACTIVITY	Early	Early	ORIG	1995 1996 1998
ID	DESCRIPTION	START	FINISH	DUR	N DECLIANLE MARAPRHAYLUMUU AUGEEDCTNOVDECUANLE MARAPRHAYLUMUU AUGEEDCTNOVDECUANLE
					CONCEPTUAL DESIGN NANAGEMENT
7641090235	Shape Sanitation Conceptual Design	27NDV95A	27N0V95A	1	
2641000510	Design Contrain Ebassa		(NEADEA		DESIGN MANAGEMENT
2641090530	Develor P-F Sperifications (Shapes)	2/1101454	17101060		
7641090534	Develop A-E Specifications	30NDV95A	60EC95A	5	
7641090536	A-E Negotiation Period	70EC95A	17JAN96A	30	
76410A0537	Subcontract Award		17JAN96A	0	
7044201400	DM Current Change	15550050	0100100	101	PROJECT MANAGEMENT
7011301100	m support-snapes	IDUELICH	3100147	441	
7044302000	Shapes Engineering	18JAN96A	300CT97	466	
7044302310	SS T-1/T-II Engineering	18JAN96A	2290696	156	
7044302320	SS 60% T-1/T-11 Design	18JAN96A	26JUN96	115	
7044302330	SS 1-1/T-11 Review	27JUN96	27, JUN 96	1	
2011302340	SS ANK Deview	26,10096	2240696	- 40	⊣; I · Þ _{ær} : · · · ·
7011302360	SS Revisions as appropriate	26,101 96	2290696	- 20	
7044302370	Request KD-3 SS	28JUN96	2040 0	0	
7011302380	SS Design Complete		2290696	0	
7011302401	Receive KD-3 SS-Title I/II Engineering Coople	te	22911696	0	
7011302700	SS T-III Engineering	16MAY97	3000197	120	
2011202600	Conr. Box Share San	20011000	2465002	~~~~	
7044303000	Lons, Proc. Snape Jan.	2310010	20327-10		
7011303120	NDA Specs-Shapes & Proc. Dac	22JAN96A	530196	120	
7044303130	Very long-lead NDA Procurement - Shapes	BJUL 96	27 JUN 97	255	
7044303140	Very long-lead NDA Delivered - Shapes		27JUN97	0	
7011303150	long-lead NDA Delivery - Shapes	8JUL96	11APR97	200	
7044303160	long-lead NDA Delivered - Shapes		11APR97	0	
7044204000	Court Not Sot-Shapes	1444407	2000102	120	
7044304110	Tyce-Shapes	1640197	12,111197	- 120	
7044304120	Const Mot-Shapes	1619197	3000197	120	
					CONSTRUCTION
7011305000	Shapes Construction	275EP96	300CT97	285	
7011305105	Site Preparation - Shapes	275EP96	2JAN97	70	
7044305110	Construction-shapes	13,101147	200197		▃▎▕▕▕▕▕▕▕▕▕▕▕▕▕▕▕▕▕▕▕▕▕▕▕▕▕▕▕▕▕
2044305130	Project Acceptance and Transfer-Shapes		3000197	0	
					PROCEDURES/TRAINING/STARTUP
76410A0650	Shape Procedures and Training	140696	2200197	320	200220200000000000000000000000000000000
7611090652	ALARA REVIEW	140696	255EP%	40	
7641090654	COULS	265EP96	1249897	120	
764108056	Topining For Operational Assessment	13MAK47	30,00197	100	┥┊╏┊╴┇╴┊╴╘╴╘ <mark>╘┉┉┉┉┉┙</mark> ┍┉┉┓╴┊╴╵
264100050	Training For Oberations	28011097	1055809	110	
		C010017			OPERATIONAL ASSESSMENT
7641000750	Shapes	3100197	1976898	80	
7641090752	Shape Sanitation Operational Assessment	3100197	19FEB98	80	
7641090754	Shape Sanitation Operationally Ready		19FEB98	0	↓
7641000755	Shanes Socitation Operations	2055900	2044202	1115	
CC/UHU1101		2UF L 848	JUTHIU2	1115	
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Plot Date	15FEB96 Activity Bar/Early Dates	rc	000	re	Sheet 1 of 1 base Defined 2
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	ACTIVITY	FARI Y	FARI Y	ORIG	RFM	TOTI	1445	1996	-		997	II 999
ACTIVITY ID	DESCRIPTION	START	FINISH	DUR	DUR	FLT	NDJFMA	HJJJAIS	I C D N D S	MAM.	<u> </u>	JUDND
							CONCEPTUAL DE	SIGN MANAG	EMENT :			
7641090200	Conceptual Design Management	7NOV95A	25JUN96	166	8	0						
7641090210	Complete Conceptual Design	7NOV95A	15DEC95A	59	0							
76410A0212	Determine Process Configuration	7NDV95A	GNOV95A		0		•••					
7641090214	Modify A-E Subcontract	7NOV95A	24NDV95A	Ξ	0							
7641090216	Determine Equipment Requirements	1 DNOV95A	1 JNDV95A	∼	0							
76410A0218	Determine Facility Requirements	14N0V95A	16NDV95A	~	0							
76410A0220	[nitia] 00E Briefing	1 2NDV95A	1 7NDV95A	-	0							
76410A0222	Coordinate Facility Use	20NDV95A	22NDV95A	e	0		· · ·					
7641090224	Develop Facility Layout	I SNOV96A	21NDV95A	S	0							
76410A0226	006 Briefing		22NDV95A	0	0		•					
76410A0230	Develop Conceptual Designs	23NDV95A	15DEC95A	17	0							
76410A0236	Conceptual Designs Complete (less shapes)		1SDEC95A	0	0		•					
7641090237	Revised Cost Estimate	23NDV95A	29NDV95A	S	0		 					
7641090240	Deternine Operational Parameters	22 JAN96A	25JUN96	112	8	0						
7641040248	Container System Coordination	22JAN96A	25JUN96	112	6	æ		Π				
76410A0250	Deternine Storage Requirements	1 4NDV95A	16MDY96	133	69	•		 				
7641090252	Deternine Final Storage Requirements	1 4NDV95A	1844896	8	ж	1575						
76410A0254	Estimate Volume Outout	1844696	2240896	ر ار	ഹ	1575	-					
76410A0256	Estimate Secondary Naste Volume	25MAR96	309946	6	8	1575						
7641090258	Determine Proceed Vaste Stonage Fac Cacah	10004	190006	=]=	1575	, –					
7641000260	Pericipa on Waste Stomans Facility Denuircements		100006	- -	- -	1575	>℃					
7641000261	Initiate Ortion for Storane Facility		Approprie			1595	> 0					
7641090263	Initiate Storage Facility Design/Connelination		190006			1595	• •					
7641000264	Fetimate on Farility Crete		1 KMOY QK	2	۶ R	1575	, L. 					
76410A0270	Financial Management	7NUV95A	1 3DFC95A	2		222		• • •				
76410A0271	Obtain Interim Funding/Funds Planning	2NOV96A	29NDV95A	12	0				•			• • •
7641090272	BCP-Expense Funding	7NOV95A	BNDV95A	~	0		· · · ·		-			
7641090274	BCP Approved	9N0V95A	29NDV95A	15	0							
7641090280	Prepare for Line Item and L1 support funding	23NDV95A	BUANAGA	8	0							
7641090282	Develop PMP/WP-Capital	BONDV95A	130EC95A	10	0							
7641040283	Otain Capital Funding		1 SDEC95A	0	0		•					
7641090284	Develop PMP/WP-Expense	23NDV95A	130EC95A	15	0		00					
76410A0285	Submit BCP		130EC95A	0	0		•	•••				
7641090286	Obtain Expense Funding	3JAN96A	JIAN96A	0	0		••••					
7641090290	Prepare HQ documentation/Validation	30NDV96A	130EC95A	9	0			• • •				
7641090291	Deternine Revised TPC	30NDV95A	6DEC95A	S	0							
7641090292	Revise Schedule 44	7DEC96A	130EC95A	Ś	0							
7641090294	Revise A05	7DEC95A	130EC45A	2	0							
7641090296	Ready for Validation		130EC45A	0	0		•					
							COLOGY/REGULA	TORY/NEPA				
7641040300	Ecology/Regulatory/Nepa	7NDV95A	4DEC96	282	213	0	10000 C	*****	22022			
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1	ACTIVITY	EARLY	EARLY	ORIG	REM	TOTI	1995 1996 1997	
ACTIVITY ID	DESCRIPTION	START	FINISH	DUR	DUR	FLT		D
7641000210		BUDV054	4540044				ECOLOGY/REGULATORY/NEPA	
7641000310	NEPH ACTIVITIES	7NUV45A	<u>159446</u>	115	46	0		
76110HU312	Revise/Modify as Reguired	2KOV95A	HDEC95A	20	0			
76410H0314	Complete NEPA Activities	SDEC95A	15APR96	95	46	25		
76410A0316	Publish FUNSI		15APR96	0	0	25		
76410A0320	RCRA Permitting	4 JAN96A	HDEC96	240	213	0		
7641080322	Reactivate Permitting Process	4 JAN96A	17JAN96A	10	0		B <u>I :</u> i i su su su	
76410A0324	Prepare and Submit Permit Mod(s)	18JAN96A	10APR96	60	43	102		
7641080326	Public Connent Period	11APR96	1 4AUG96	90	90	102		
76410A0328	Incorporate Comments	15AUG96	4DEC96	80	80	102		
76410H0324	Permit Mod Approved/Issued		HDEC96	0	0	102		
76410A0330	CRA Minor Source(s)	25JAN96A	29MAY96	90		0		
76410A0332	CAA Assessment	25JAN96A	21FEB96	20	88	37		
76410A0334	Prepare Notification to State	22FEB96	6MAR96	10	10	37		
76410A0336	Initial Pernit Issued		29MAY96	0	0	37	♦	
							AUTHORIZATION BASIS	
76410A0400	Authorization Basis	11 JAN96A	2JAN97	256	234	0		,
76410A0460	Security & Quality Planning	12FEB96	6SEP96	150	150	177		
76410A0461	Safeguards & Security Plan	12FEB96	21AUG96	138	138	177		
76410A0462	Quality Assurance Plan	12FEB96	21AUG96	138	138	177		
76410A0464	Waste Management Plan	22 JAN 96A	65EP46	150	150	165		
						··	DESIGN MANAGEMENT	
76410A0500	Design Management	2710795A	17JAN96A	38	0			
76410A0510	Design Criteria	27N0V95A	6DEC95A	8	0			
76410A0520	R-E Subcontract Actions	<u>3000795a</u>	17JAN96A	35	0			
76410A0521	Develop A-E Specifications (except shapes)	<u>30NOV95A</u>	15DEC95A	12				
76410R0522	Develop A-L Specifications	<u>3000795a</u>	6DEC95A	5	0			
76410A0525	A-E Negotiation Period	<u>70EC95A</u>	1 SDEC95A	7				
76410A0526	Subcontract Award		15DEC95A	0	0			
76410A0570	Request KD-1		1DEC95A	0	0			
76410A0580			150EC95A	0	0		•	
							PROGRAM MANAGEMENT SUPPORT	:
76410A0800	Program Management Support	150EC95A	10FEB98	563	522	0		<u> (</u>
7641UAU81U	Program Support - 1196	1 SDEC96A	10FE898	563	522	1122		-
76440000							PRUCEDURES/TRAINING/STARTUP	
769 TUHUBUU	Procedures/Iraining/Startup	18JAN96A	2200197	460	443	0		<u></u>
7641000200	Reportional Approach	4040000	4.0550.00					:
7041080700	uperational Assessment	2884447	14-18-18	214	214	0		20000
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