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To:	<tcj@nrc.gov></tcj@nrc.gov>
Date:	9/30/04 1:23PM
Subject:	Transmittal of Consultant Report Table 13.1 on Decommissioning

Mr. Johnson:

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Per R. Krich, please find Table 13.1 from AIF-NESP-036, "Guidelines for Producing Commercial Nuclear Power Plant Decommissioning Cost Estimates"

<<Table 13_1 AIF-NESP-036 v1[1].pdf>>

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CC: "Curtiss, James" <JCurtiss@winston.com>

		Category Co	ontingency	Reasons for Contingency
13-4	1	Engineering Project Management Demolition Manage- ment	. 2 3 4 5 6	Difficulty in activity sequencing which affect schedule Insufficient staffing necessitating increases Changes in the project's original scope (e.g., regulatory changes requiring additional analyses/safety studies, or changes to disposition of site equipment or structures) Doubleshift (with second shift pay) to make up for schedule slippages Additional site engineering for program field changes Regulatory reviews in excess of those anticipated, necessitating additional meetings (engineering hours) to resolve problems or issues Revisions to activity specifications and procedures or additional documents required by regulatory reviews
	2	Utility and DOC Staff Costs	2	Changes to project's original schedule (e.g., accelerated schedules to clear the site for a replacement facility; additional equipment or structures to be removed within the original schedule) Increase in project critical path affecting overall project schedule Corporate/home office changes (e.g., insurance, taxes, etc.) affecting staff overhead rates
	3	Decontamination	2 3 4	Accident resulting in localized spills or spread of contamination Supplementary manual scrubbing to achieve desired DF Additional chemicals required to achieve desired DF
	4	Contaminated Com- ponent Removal, Contaminated Con- crete Removal	25% 1 25% 2	

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TABLE 13.1 Contingency estimates

TABLE 13.1 (Continued)

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	Category	Contingency	Reasons for Contingency
4	(Cont'd)	3	Labor agreement changes with respect to worker classifica- tion (composite crews; craftsmen substituted where labor- ers were assumed) Labor agreement changes with respect to crew size required to perform an activity
- 5	Steam Generator, Pressurizer, PWR Reactor Cool. Pu & Piping Removal BWR Recirculatio System Pumps and Piping Removals	mps 2 s 3 n 4	Delays in receipt of special lifting and transporting equipment Accidents resulting in localized spills or spread of contamination Higher than anticipated contamination levels and radiation dose rates necessitating "jumper" crews; more consumables (plastic sheeting, absorbent materials, frequent HEPA filter changes) Adverse weather (rain, floods, snow, ice) affecting trans- port of heavy components on-site or at the burial facility Labor agreement changes with respect to worker classifica- tion (composite crews; craftsmen substituted where labor- ers were assumed) Labor agreement changes with respect to crew size required to perform an activity
- 6	Reactor Vessel a Internals Remova		handling equipment; insufficiency or unavailability of spare parts Longer setup crew training required in tool operation Higher than anticipated activation levels requiring addi- tional segmentation to meet curie/dose rate shipping limits; more consumables required (cutting gases, power, etc.) Delays in return of shipping cask from burial facility Difficulties in temporary on-site storage of segments until cask(s) returns Double handling of segments required - caused by cask delays Unforseen difficulties loading segments into cask liners at a depth of 30 or more feet under water Delays waiting for reactor water visibility to improve Delays caused by main crane usage for other activities

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TABLE 13.1 . (Continued)

	Category	Contingency	Reasons for Contingency
6	(Cont'd.)	11 12	n na state in the state of the
7	Reactor Packaging	2 3 4 5	liner to meet curie and weight limits
8	Reactor Shipping	25% 1 25% 2 3 4 5	Adverse weather conditions restricting shipments to burial facility Additional overweight permits or escorted shipments required Shipment interrupted by state officials for inspection Delays enroute caused by road congestion/construction Delays caused by temporary road detours
9	Reactor Burial	3 4	<pre>load Additional weight charges due to additional shielding required Additional special handling charges for unusual handling required Shipment rejection or delay caused by inadequate shipping documents Congestion at burial facility caused by multiple shippers Delays unloading due to inclement weather</pre>

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	Category	Contingency	Reasons for Contingency	
	10 LSA Packaging	10% 1 2 3	More containers needed to accommodate higher than esti- mated void fraction Rejection of containers caused by damage during loading Unloading and reloading to meet curie and/or weight limits	
13-7	11 LSA Shipping		Unforseen increases in "special train" charges for heavy components (e.g., additional mobilization/setup equipment and crew; slower train speed due to adverse weather or steeper grades) Larger number of shipments required to meet weight restrictions in each state Longer routes required to avoid traffic problems, road construction or states/communities with adverse, radio- active shipment rules Shipment rejection because of improper container documen- tation, container type, curie level	
	12 LSA Burial	25% 1 2 3	Higher burial costs because of higher curie level, weight surcharges, special site shutdown fees (package >10 R/hr) More containers (and burial volumetric charges) to meet weight/curie per package limits Additional special handling fees for unusual "slit trench" equipment or manpower	
	13 Clean Component an Concrete Removals Clean Waste Dispon	1	Additional handling required to disassemble large compon- ents to fit through doors or to load onto trucks for dis- posal Greater trucking distances to dispose of wastes	
	14 Supplies and Con- sumables	25% 1	Additional quantities required (e.g., additional crew size requiring more protective clothing; higher than expected cutting blade wear rate or torch tip consumption) Replacement of spoiled or non-specification materials	

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