

**SIEMENS**

March 18, 1997  
JBE:97:039

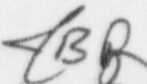
U.S. Nuclear Regulatory Commission  
Attn: Michael F. Weber, Chief  
Licensing Branch  
Division of Fuel Cycle Safety and Safeguards, NMSS  
Washington, DC 20555

Dear Mr. Weber:

In Siemens Power Corporation's (SPC's) revised mop powder uranium recovery process a rotary vacuum filter, using diatomaceous earth as the filter medium, will be used in place of a centrifuge. Consequently, SPC's license needs to be amended to add this type of filter to Table I-4.1 to describe the criticality safety controls to be used with it. To effect this change, enclosed are two copies of page 4-20 of SPC's license application.

SPC expects to restart the mop powder uranium recovery process by May 1, 1997. If you have questions or require further information, please call me at 509-375-8663.

Very truly yours,

  
James B. Edgar  
Staff Engineer, Licensing

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Enclosure

cc: US NRC Region IV  
WCFO  
Walnut Creek, CA

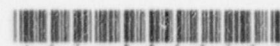
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## PART I - LICENSE CONDITIONS

REV.

36

Table I-4.1 (Cont'd)

Table 1-4.1 (Cont'd)													
COMPONENT	CONTROL TYPE											DISCUSSION OF ANY SPECIAL CONTROLS USED / ADDITIONAL EXPLANATION OF CONTROL TYPE	
	GEO		VOL	FNA	NAA	CCU	CCM	MCU	MCM	PPC	ARA		SPA
	1	2											
Cylindrical Tanks, Filters and Other Equipment													
≤ 10.02" nominal ID	X					X							X

PART I - PHYSICAL CONDITIONS

REV

Table I-4.1 (Cont'd.)													
COMPONENT	CONTROL TYPE											DISCUSSION OF ANY SPECIAL CONTROLS USED / ADDITIONAL EXPLANATION OF CONTROL TYPE	
	GEO		VOL	FNA	NAA	CCU	CCM	MCU	MCM	FAC	APA	SPA	
	1	2											
Cylindrical Tanks, Filters and Other Equipment													
≤ 12.0" nominal I.D.	X					X	X	X			X	X	<p>Excess steam or any control used alone is insufficient to limit homogeneous solutions of UNH or equivalent reactivity solutions. More reactive materials are isolated from these tanks by physical or process conditions so that they cannot enter these tanks or that their concentrations of these materials are less than 400 g U/liter.</p> <p>Cylindrical tanks and filters less than this dimension are also appropriately spaced to assure neutron interactions with other equipment will result in acceptable <math>k_{eff}</math>. Failure of geometry or spacing between fixed pieces of equipment is controlled by design.</p>
≤ 18" nominal OD x 12" nominal length rotary vacuum filter		X		X								X	Center of rotary vacuum filter is filled with neutron adsorbent. Equipment design limits cake build up on the filter to a maximum thickness of 4.0".
Centrifuges (geometry controlled)	X										X	X	

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## PART I - LICENSE CONDITIONS

REV.

36

Table 1-4.1 (Cont'd)

Table 1-4.1 (Cont'd)													
COMPONENT	CONTROL TYPE											DISCUSSION OF ANY SPECIAL CONTROLS USED / ADDITIONAL EXPLANATION OF CONTROL TYPE	
	GEO		VOL	FNA	NAA	CCU	CCM	MCU	MCM	PPC	ARA		SPA
	1	2											
Cylindrical Tanks, Filters and Other Equipment													
≤ 10.02" nominal I.D.	X					X		X					X
						</							

PART I - LICENSE CONDITIONS

REV

Table I-4.1 (Cont'd.)													
COMPONENT	CONTROL TYPE												DISCUSSION OF ANY SPECIAL CONTROLS USED / ADDITIONAL EXPLANATION OF CONTROL TYPE
	GEO		VOL	FNA	NAA	CCU	CCM	MCU	MCM	PPC	ARA	SPA	
	1	2											
Cylindrical Tanks, Filters and Other Equipment													
≤ 12 0" nominal I.D.	X					X	X	X			X	X	Favorable geometry control used alone is limited to homogeneous solutions of UNH or equivalent reactivity solutions. More reactive materials are isolated from these tanks by physical or process conditions so that they cannot enter these tanks or credible concentrations of these materials are less than 400 g U/liter.  Cylindrical tanks and filters less than this dimension are also appropriately spaced to assure neutron interactions with other equipment will result in acceptable $k_{eff}$ . Failure of geometry or spacing between fixed pieces of equipment is controlled by design.
≤ 18" nominal OD x 12" nominal length rotary vacuum filter		X		X								X	Center of rotary vacuum filter is filled with neutron adsorber. Equipment design limits cake build up on the filter to a maximum thickness of 4 32".
Centrifuges (geometry controlled,	X										X	X	

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