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HW-69912

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CGPR-2, 2-28-94

By J. E. Savely 3-4-94

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PRODUCT QUALITY AND AN INTERIM GOAL EXPOSURE PLAN

There has been considerable discussion recently concerning a plutonium specification which restricts the acceptable range of Pu-240 in uranium discharged. Our problem is to control Pu-240 on a continuing basis so that material flowing from the reactors to CPD will meet the specification after limited blending. Storage basin capacity and good operating practice preclude additional holding time to facilitate extensive blending. Some blending normally occurs in CPD dissolvers and further blending will be accomplished by careful charging of Redox and Purex with subsequent blending of their product streams. However, it is not feasible to maintain close control over this blending through frequent isotopic analysis of these streams. One of the most effective controls, at least initially, must be the discharging of a fairly uniform product with respect to Pu-240 content. As experience is gained we hope to be able to incorporate more flexibility.

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In general Pu-240 content of regular uranium discharged has been slightly high at the older reactors and low at the C, KE and KW Reactors. For enriched uranium it has been low at all reactors, particularly the C and K Reactors. In order to provide a fairly uniform product that can be blended effectively at CPD we have derived and initiated an interim goal exposure plan which is tabulated below:

Reactor	Material Type	Previous		Current	
		Plan	Max	Plan	Max
B	Reg.	675	900	675	800
	Enr.	900	1600	900	1500
C	Reg.	640	900	675	800
	Enr.	700	1600	750	1500
*D	Reg. bumper	900	1100	900	1100
	Enr. bumper	1150	1600	1150	1500
DR	Reg.	725	900	675	800
	Enr.	900	1600	900	1500
F	Reg.	650	900	675	800
	Enr.	850	1600	900	1500
H	Enr.	900	1600	900	1500
	Enr. bumper	1000	-	1000	-
K	Reg.	650	900	675	900
	Enr.	650	1600	700	1500

* Bumpered regular material will be too high in Pu-240 and will be diverted to the non-representative plutonium program.

It will be necessary for the Production Operation to schedule discharges that do not vary significantly from this plan. Similarly, reactor people must use discretion in discharging material not scheduled. Where significant variations are necessary, Production Scheduling should be consulted to determine what action will be required in the interests of a uniform product.

T. Prudich, Manager
Production Planning and
Scheduling
IRRADIATION PROCESSING DEPARTMENT

TP:ng

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