K-25 PROCESS SUPPORT DIVISION
URANIUM HEXAFLUORIDE ANALYSES

GDP0568

PRODUCER: FRANCE
DATE RECEIVED IN LABORATORY: 28-DEC-1984

REPORT DATE: 6-FEB-1985
SAMPLE NUMBER: 175229
CYLINDER NUMBER: CX2971

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	SPECIFICATION LIMITS	ANALYSIS	
	MINIMUM		
URANIUM HEXAFLUORIDE	99.5	99.98	WEIGHT PERCENT
URANIUM		67.60	WEIGHT PERCENT
	MAXIMUM		
CYLINDER VAPOR PRESSURE	75	---	PSIA
HYDROCARBONS, CHLORO-CARBONS, PARTIALLY SUB-STITUTED HALOHYDROCARBONS	0.01	---	MOLE PERCENT
ANTIMONY	1	<1	UG/G U-NORMAL
BROMINE	5	<5	UG/G U-NORMAL
CHLORINE	100	44	UG/G U-NORMAL
NIOBIUM	1	<0.2	UG/G U-NORMAL
PHOSPHORUS	50	<20	UG/G U-NORMAL
RUTHENIUM	1	<1	UG/G U-NORMAL
SILICON	100	---	UG/G U-NORMAL
TANTALUM	1	<0.3	UG/G U-NORMAL
TITANIUM	1	<0.3	UG/G U-NORMAL
ELEMENTS FORMING NON-VOLATILE FLUORIDES	300	17.0	UG/G U-NORMAL
CHROMIUM	1500	<570.0	UG/G U-235
MOLYBDENUM	200	110.0	UG/G U-235
TUNGSTEN	200	<60.0	UG/G U-235
VANADIUM	200	<30.0	UG/G U-235
URANIUM-233	500	<100	UG/G U-235
URANIUM-232	0.110	0.03	UG/G U-235
BORON EQUIVALENT CROSS SECTION	8	NONE DET	UG/G U-NORMAL
FISSION PRODUCT GAMMA	20	<5	PERCENT OF
FISSION PRODUCT BETA	10	1.75	AGED NATURAL U
TRANSURANIC ALPHA	1500	8.0 R	DPM ALPHA/G U
TECHNETIUM		<0.005	UG/G U-NORMAL
URANIUM-234		.013	WEIGHT PERCENT
URANIUM-235		0.8791	WEIGHT PERCENT
URANIUM-236		.31	WEIGHT PERCENT

** EXCEEDS SPECIFICATIONS
R REVISED RESULT
THE FOLLOWING SAMPLES HAVE BEEN COMPOSITED:
175226, 175227, 175228, 175229, 175230
175231, 175232, 175233, 175234

REPORTED BY:

OR0014242

K-25 PROCESS SUPPORT DIVISION
URANIUM HEXAFLUORIDE ANALYSES

PRODUCER: FRANCE
DATE RECEIVED IN LABORATORY: 28-DEC-1984

REPORT DATE: 6-FEB-1985
SAMPLE NUMBER: 175230
CYLINDER NUMBER: CX161

	SPECIFICATION LIMITS	ANALYSIS	
	MINIMUM		
URANIUM HEXAFLUORIDE	99.5	99.99	WEIGHT PERCENT
URANIUM		67.61	WEIGHT PERCENT
	MAXIMUM		
CYLINDER VAPOR PRESSURE	75	---	PSIA
HYDROCARBONS, CHLORO-CARBONS, PARTIALLY SUB-STITUTED HALOHYDROCARBONS	0.01	---	MOLE PERCENT
ANTIMONY	1	<1	UG/G U-NORMAL
BROMINE	5	<5	UG/G U-NORMAL
CHLORINE	100	44	UG/G U-NORMAL
NIOBIUM	1	<0.2	UG/G U-NORMAL
PHOSPHORUS	50	<20	UG/G U-NORMAL
RUTHENIUM	1	<1	UG/G U-NORMAL
SILICON	100	---	UG/G U-NORMAL
TANTALUM	1	<0.3	UG/G U-NORMAL
TITANIUM	1	<0.3	UG/G U-NORMAL
ELEMENTS FORMING NON-VOLATILE FLUORIDES	300	7.0	UG/G U-NORMAL
CHROMIUM	1500	<600.0	UG/G U-235
MOLYBDENUM	200	<60.0	UG/G U-235
TUNGSTEN	200	<60.0	UG/G U-235
VANADIUM	200	<40.0	UG/G U-235
URANIUM-233	500	<100	UG/G U-235
URANIUM-232	0.110	0.06	UG/G U-235
BORON EQUIVALENT CROSS SECTION	8	NONE DET	UG/G U-NORMAL
FISSION PRODUCT GAMMA	20	<5	PERCENT OF AGED NATURAL U
FISSION PRODUCT BETA	10	1.75	
TRANSURANIC ALPHA	1500	8.0 R	DPM ALPHA/G U
TECHNETIUM		<0.005	UG/G U-NORMAL
URANIUM-234		.013	WEIGHT PERCENT
URANIUM-235		0.8361	WEIGHT PERCENT
URANIUM-236		.27	WEIGHT PERCENT

** EXCEEDS SPECIFICATIONS
R REVISED RESULT

THE FOLLOWING SAMPLES HAVE BEEN COMPOSITED:
175226, 175227, 175228, 175229, 175230
175231, 175232, 175233, 175234

REPORTED BY:

K-25 PROCESS SUPPORT DIVISION
URANIUM HEXAFLUORIDE ANALYSES

PRODUCER: FRANCE
DATE RECEIVED IN LABORATORY: 28-DEC-1984

REPORT DATE: 6-FEB-1985
SAMPLE NUMBER: 175228
CYLINDER NUMBER: DV38

	SPECIFICATION LIMITS	ANALYSIS	
	MINIMUM		
URANIUM HEXAFLUORIDE	99.5	99.98	WEIGHT PERCENT
URANIUM		67.61	WEIGHT PERCENT
	MAXIMUM		
CYLINDER VAPOR PRESSURE	75	---	PSIA
HYDROCARBONS, CHLORO-CARBONS, PARTIALLY SUB-STITUTED HALOHYDROCARBONS	0.01	---	MOLE PERCENT
ANTIMONY	1	<1	UG/G U-NORMAL
BROMINE	5	<5	UG/G U-NORMAL
CHLORINE	100	44	UG/G U-NORMAL
NIOBIUM	1	<0.2	UG/G U-NORMAL
PHOSPHORUS	50	<20	UG/G U-NORMAL
RUTHENIUM	1	<1	UG/G U-NORMAL
SILICON	100	---	UG/G U-NORMAL
TANTALUM	1	<0.3	UG/G U-NORMAL
TITANIUM	1	<0.3	UG/G U-NORMAL
ELEMENTS FORMING NON-VOLATILE FLUORIDES	300	6.0	UG/G U-NORMAL
CHROMIUM	1500	<500.0	UG/G U-235
MOLYBDENUM	200	60.0	UG/G U-235
TUNGSTEN	200	<50.0	UG/G U-235
VANADIUM	200	<30.0	UG/G U-235
URANIUM-233	500	<100	UG/G U-235
URANIUM-232	0.110	0.02	UG/G U-235
BORON EQUIVALENT CROSS SECTION	8	NONE DET	UG/G U-NORMAL
FISSION PRODUCT GAMMA	20	<5	PERCENT OF
FISSION PRODUCT BETA	10	1.75	AGED NATURAL U
TRANSURANIC ALPHA	1500	8.0 R	DPM ALPHA/G U
TECHNETIUM		<0.005	UG/G U-NORMAL
URANIUM-234		.0083	WEIGHT PERCENT
URANIUM-235		0.9954	WEIGHT PERCENT
URANIUM-236		.074	WEIGHT PERCENT

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R REVISED RESULT

THE FOLLOWING SAMPLES HAVE BEEN COMPOSITED:
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175231, 175232, 175233, 175234

REPORTED BY: