OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 TECHNICAL SERVICES DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: COGEMA
Date received in laboratory: 14-JAN-83

Report Date: 28-MAR-83
Sample Number: 175102
Cylinder Number: N-160

Property	Specification Limits	Analysis	
	Minimum		
Uranium Hexafluoride	99.5	99.96	Weight percent
Uranium		67.59	Weight percent
	Maximum		
Cylinder Vapor Pressure	75	---	psia
Hydrocarbons, chlorocarbons, partially substituted halohydrocarbons	0.01	---	Mole Percent
Antimony	1	<1	uG/G U-normal
Bromine	5	<5	uG/G U-normal
Chlorine	100	29	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	125.0	uG/G U-normal
Chromium	1500	<530.0	uG/G U-235
Molybdenum	200	50.0	uG/G U-235
Tungsten	200	<50.0	uG/G U-235
Vanadium	200	<30.0	uG/G U-235
Uranium-233	500	<200	uG/G U-235
Uranium-232	0.110	0.059	uG/G U-235
Boron equivalent cross section	8	0.1	uG/G U-normal
Fission product gamma	20	<5	Percent of
Fission product beta	10	<0.1	aged natural U
Transuranic alpha	1500	2.0	DPM alpha/G U
Technetium		0.0007	DPM alpha/G U
Uranium-234		.015	Weight Percent
Uranium-235		0.9433	Weight Percent
Uranium-236		.28	Weight Percent

Reported by:

03-28-83

The following samples have been composited:

175047, 175107, 175106, 175105, 175104
175103, 175102, 175050, 175049, 175048

Reading Room Copy

UF6 SUPPLEMENTAL ANALYSIS REPORT

Sample Number: 175102 Shipping Document:

Cylinder Numbers	Chemical and Isotopic Analyses (Wt. %)	
	UF6	99.96
	U-234	.015
	U-235	0.9433
	U-236	.28
	U (Total)	67.59

Spectrographic Analyses (Micrograms element per gram Uranium)

Element	ug/gU	Element	ug/gU
Al	<2	Mg	<2
B	<0.1	Mn	<2
Ba	<1	Mo	<2
Be	<0.1	Na	<2
Bi	<1	Ni	50
Ca	<2	P	<40
Cd	<0.1	Pb	<2
Co	<1	Sb	<5
Cr	<2	Si	<2
Cu	45	Sn	<2
Fe	30	V	<2
Li	<2	Zn	<20

Reported by:

Date: 03-28-83

Analyses contained hereon are furnished as a courtesy and should not be construed as a certification or warranty that the material will so conform.

OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 TECHNICAL SERVICES DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: COGEMA
Date received in laboratory: 14-JAN-83

Report Date: 28-MAR-83
Sample Number: 175048
Cylinder Number: CY-269

Property	Specification Limits	Analysis	
	Minimum		
Uranium Hexafluoride	99.5	99.97	Weight percent
Uranium		67.59	Weight percent
	Maximum		
Cylinder Vapor Pressure	75	---	psia
Hydrocarbons, chlorocarbons, partially substituted halohydrocarbons	0.01	---	Mole Percent
Antimony	1	<1	uG/G U-normal
Bromine	5	<5	uG/G U-normal
Chlorine	100	29	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	95.0	uG/G U-normal
Chromium	1500	<530.0	uG/G U-235
Molybdenum	200	<50.0	uG/G U-235
Tungsten	200	<50.0	uG/G U-235
Vanadium	200	<30.0	uG/G U-235
Uranium-233	500	<200	uG/G U-235
Uranium-232	0.110	0.044	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	<0.1	used natural U
Transuranic alpha	1500	2.0	DPM alpha/G U
Technetium		0.0007	DPM alpha/G U
Uranium-234		.015	Weight Percent
Uranium-235		0.9438	Weight Percent
Uranium-236		.29	Weight Percent

Reported by:

The following samples have been composited:

175047, 175107, 175106, 175105, 175104
175103, 175102, 175050, 175049, 175048

03-28-83

UF6 SUPPLEMENTAL ANALYSIS REPORT

Sample Number: 175048 Shipping Document:

Cylinder Numbers	Chemical and Isotopic Analyses (Wt. %)	
	UF6	99.97
	U-234	.015
	U-235	0.9438
	U-236	.29
	U (Total)	67.59

Spectrographic Analyses (Micrograms element per gram Uranium)

Element	ug/gU	Element	ug/gU
Al	<2	Mg	<2
B	<0.1	Mn	<2
Ba	<1	Mo	<2
Be	<0.1	Na	4
Bi	<1	Ni	7
Ca	3	P	<40
Cd	<0.1	Pb	6
Co	<1	Sb	<5
Cr	15	Si	<2
Cu	30	Sn	<2
Fe	30	V	<2
Li	<2	Zn	<20

Reported by:

Date: 03-28-83

Analyses contained hereon are furnished as a courtesy and should not be construed as a certification or warranty that the material will so conform.

OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 TECHNICAL SERVICES DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: COGEMA
Date received in laboratory: 17-JAN-83

Report Date: 28-MAR-83
Sample Number: 175104
Cylinder Number: COG-630

Property	Specification Limits	Analysis	
	Minimum		
Uranium Hexafluoride	99.5	100.00	Weight percent
Uranium		67.62	Weight percent
	Maximum		
Cylinder Vapor Pressure	75	---	psia
Hydrocarbons, chlorocarbons, partially substituted halohydrocarbons	0.01	---	Mole Percent
Antimony	1	<1	uG/G U-normal
Bromine	5	<5	uG/G U-normal
Chlorine	100	29	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	167.0	uG/G U-normal
Chromium	1500	<430.0	uG/G U-235
Molybdenum	200	<40.0	uG/G U-235
Tungsten	200	<40.0	uG/G U-235
Vanadium	200	<30.0	uG/G U-235
Uranium-233	500	<200	uG/G U-235
Uranium-232	0.110	0.026	uG/G U-235
Boron equivalent cross section	8	0.2	uG/G U-normal
Fission product gamma	20	<5	Percent of
Fission product beta	10	<0.1	aged natural U
Transuranic alpha	1500	2.0	DPM alpha/G U
Technetium		0.0007	DPM alpha/G U
Uranium-234		.016	Weight Percent
Uranium-235		1.172	Weight Percent
Uranium-236		.23	Weight Percent

Reported by:

03-29-83

The following samples have been composited:

175047, 175107, 175106, 175105, 175104
175103, 175102, 175050, 175049, 175048

UF6 SUPPLEMENTAL ANALYSIS REPORT

Sample Number: 175104 Shipping Document:

Cylinder Numbers	Chemical and Isotopic Analyses (Wt. %)	
	UF6	100.00
	U-234	.016
	U-235	1.172
	U-236	.23
	U (Total)	67.62

Spectrographic Analyses (Micrograms element per gram Uranium)

Element	ug/gU	Element	ug/gU
Al	<2	Mg	3
B	<0.1	Mn	3
Ba	<1	Mo	<2
Be	<0.1	Na	<2
Bi	<1	Ni	85
Ca	6	P	<40
Cd	<0.1	Pb	<2
Co	<1	Sb	<5
Cr	<2	Si	<2
Cu	70	Sn	<2
Fe	<5	V	<2
Li	<2	Zn	<20

Reported by:

Date: 03-29-83

Analyses contained hereon are furnished as a courtesy and should not be construed as a certification or warranty that the material will so conform.

OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 TECHNICAL SERVICES DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: COGEMA
Date received in laboratory: 17-JAN-83

Report Date: 28-MAR-83
Sample Number: 175103
Cylinder Number: COG-609

Property	Specification Limits	Analysis	
	Minimum		
Uranium Hexafluoride	99.5	99.98	Weight percent
Uranium		67.61	Weight percent
	Maximum		
Cylinder Vapor Pressure	75	---	psia
Hydrocarbons, chlorocarbons, partially substituted halohydrocarbons	0.01	---	Mole Percent
Antimony	1	<1	uG/G U-normal
Bromine	5	<5	uG/G U-normal
Chlorine	100	29	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	122.0	uG/G U-normal
Chromium	1500	<430.0	uG/G U-235
Molybdenum	200	50.0	uG/G U-235
Tungsten	200	<40.0	uG/G U-235
Vanadium	200	<30.0	uG/G U-235
Uranium-233	500	<200	uG/G U-235
Uranium-232	0.110	0.027	uG/G U-235
Boron equivalent cross section	8	0.1	uG/G U-normal
Fission product gamma	20	<5	Percent of
Fission product beta	10	<0.1	aged natural U
Transuranic alpha	1500	2.0	DPM alpha/G U
Technetium		0.0007	DPM alpha/G U
Uranium-234		.016	Weight Percent
Uranium-235		1.172	Weight Percent
Uranium-236		.23	Weight Percent

Reported by:

The following samples have been composited:

175047, 175107, 175106, 175105, 175104
175103, 175102, 175050, 175049, 175048

03-28-83

UF6 SUPPLEMENTAL ANALYSIS REPORT

Sample Number: 175103 Shipping Document:

Cylinder Numbers	Chemical and Isotopic Analyses (Wt. %)	
	UF6	99.98
	U-234	.016
	U-235	1.172
	U-236	.23
	U (Total)	67.61

Spectrographic Analyses (Micrograms element per gram Uranium)

Element	ug/gU	Element	ug/gU
Al	<2	Mg	<2
B	<0.1	Mn	<2
Ba	<1	Mo	<2
Be	<0.1	Na	<2
Bi	<1	Ni	45
Ca	2	P	<40
Cd	<0.1	Pb	<2
Co	<1	Sb	<5
Cr	<2	Si	<2
Cu	55	Sn	<2
Fe	20	V	<2
Li	<2	Zn	<20

Reported by:

Date: 03-28-23

Analyses contained hereon are furnished as a courtesy and should not be construed as a certification or warranty that the material will so conform.

OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 TECHNICAL SERVICES DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: COGEMA
Date received in laboratory: 14-JAN-83

Report Date: 28-MAR-83
Sample Number: 175050
Cylinder Number: COG-610

Property	Specification Limits	Analysis	
	Minimum		
Uranium Hexafluoride	99.5	99.95	Weight percent
Uranium		67.59	Weight percent
	Maximum		
Cylinder Vapor Pressure	75	---	psia
Hydrocarbons, chlorocarbons, partially substituted halohydrocarbons	0.01	---	Mole Percent
Antimony	1	<1	uG/G U-normal
Bromine	5	<5	uG/G U-normal
Chlorine	100	29	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	95.0	uG/G U-normal
Chromium	1500	<430.0	uG/G U-235
Molybdenum	200	50.0	uG/G U-235
Tungsten	200	<40.0	uG/G U-235
Vanadium	200	<30.0	uG/G U-235
Uranium-233	500	<200	uG/G U-235
Uranium-232	0.110	0.038	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	<0.1	aged natural U
Transuranic alpha	1500	2.0	DPM alpha/G U
Technetium		0.0007	DPM alpha/G U
Uranium-234		.016	Weight Percent
Uranium-235		1.169	Weight Percent
Uranium-236		.23	Weight Percent

Reported by:

03-28-83

The following samples have been composited:

175047, 175107, 175106, 175105, 175104
175103, 175102, 175050, 175049, 175048

UF6 SUPPLEMENTAL ANALYSIS REPORT

Sample Number: 175050 Shipping Document:

Cylinder Numbers	Chemical and Isotopic Analyses (Wt. %)	
	UF6	99.95
	U-234	.016
	U-235	1.169
	U-236	.23
	U (Total)	67.59

Spectrographic Analyses (Micrograms element per gram Uranium)

Element	ug/gU	Element	ug/gU
Al	<2	Mg	<2
B	<0.1	Mn	<2
Ba	<1	Mo	<2
Be	<0.1	Na	<2
Bi	<1	Ni	45
Ca	<2	P	<40
Cd	<0.1	Pb	<2
Co	<1	Sb	<5
Cr	<2	Si	<2
Cu	50	Sn	<2
Fe	<5	V	<2
Li	<2	Zn	<20

Reported by:

Date: 03-28-93

Analyses contained hereon are furnished as a courtesy and should not be construed as a certification or warranty that the material will so conform.

OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 TECHNICAL SERVICES DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: COGEMA
Date received in laboratory: 14-JAN-83

Report Date: 28-MAR-83
Sample Number: 175047
Cylinder Number: COG-606

Property	Specification Limits	Analysis	
	Minimum		
Uranium Hexafluoride	99.5	99.94	Weight percent
Uranium		67.58	Weight percent
	Maximum		
Cylinder Vapor Pressure	75	---	psia
Hydrocarbons, chlorocarbons, partially substituted halohydrocarbons	0.01	<0.01	Mole Percent
Antimony	1	<1	uG/G U-normal
Bromine	5	<5	uG/G U-normal
Chlorine	100	29	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	<2	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	115.0	uG/G U-normal
Chromium	1500	<430.0	uG/G U-235
Molybdenum	200	50.0	uG/G U-235
Tungsten	200	<40.0	uG/G U-235
Vanadium	200	<30.0	uG/G U-235
Uranium-233	500	<400	uG/G U-235
Uranium-232	0.110	0.013	uG/G U-235
Boron equivalent cross section	8	0.1	uG/G U-normal
Fission product gamma	20	<5	Percent of
Fission product beta	10	<0.1	aged natural U
Transuranic alpha	1500	2.0	DPM alpha/G U
Technetium		0.0007	DPM alpha/G U
Uranium-234		.016	Weight Percent
Uranium-235		1.172	Weight Percent
Uranium-236		.23	Weight Percent

Reported by:

03-28-83

The following samples have been composited:

175047, 175107, 175106, 175105, 175104
175103, 175102, 175050, 175049, 175048

UF6 SUPPLEMENTAL ANALYSIS REPORT

Sample Number: 175047 Shipping Document:

Cylinder Numbers	Chemical and Isotopic Analyses (Wt. %)	
	UF6	99.94
	U-234	.016
	U-235	1.172
	U-236	.23
	U (Total)	67.58

Spectrographic Analyses (Micrograms element per gram Uranium)

Element	ug/gU	Element	ug/gU
Al	<2	Mg	<2
B	<0.1	Mn	<2
Ba	<1	Mo	<2
Be	<0.1	Na	<2
Bi	<1	Ni	70
Ca	<2	P	<40
Cd	<0.1	Pb	<2
Co	<1	Sb	<5
Cr	<2	Si	4
Cu	35	Sn	<2
Fe	6	V	<2
Li	<2	Zn	<20

Reported by:

Date: 03-28-83

Analyses contained hereon are furnished as a courtesy and should not be construed as a certification or warranty that the material will so conform.

OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 TECHNICAL SERVICES DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: COGEMA
Date received in laboratory: 18-JAN-83

Report Date: 28-MAR-83
Sample Number: 175107
Cylinder Number: COG-601

Property	Specification Limits	Analysis	
	Minimum		
Uranium Hexafluoride	99.5	99.93	Weight percent
Uranium		67.57	Weight percent
	Maximum		
Cylinder Vapor Pressure	75	---	psia
Hydrocarbons, chlorocarbons, partially substituted halohydrocarbons	0.01	---	Mole Percent
Antimony	1	<1	uG/G U-normal
Bromine	5	<5	uG/G U-normal
Chlorine	100	29	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	74.0	uG/G U-normal
Chromium	1500	<430.0	uG/G U-235
Molybdenum	200	<40.0	uG/G U-235
Tungsten	200	<40.0	uG/G U-235
Vanadium	200	<30.0	uG/G U-235
Uranium-233	500	<200	uG/G U-235
Uranium-232	0.110	0.010	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	<0.1	aged natural U
Transuranic alpha	1500	2.0	DPM alpha/G U
Technetium		0.0007	DPM alpha/G U
Uranium-234		.016	Weight Percent
Uranium-235		1.172	Weight Percent
Uranium-236		.23	Weight Percent

Reported by:

The following samples have been composited:

175047, 175107, 175106, 175105, 175104
175103, 175102, 175050, 175049, 175048

03-25-83

UF6 SUPPLEMENTAL ANALYSIS REPORT

Sample Number: 175107 Shipping Document:

Cylinder Numbers	Chemical and Isotopic Analyses (Wt. %)	
	UF6	99.93
	U-234	.016
	U-235	1.172
	U-236	.23
	U (Total)	67.57

Spectrographic Analyses (Micrograms element per gram Uranium)

Element	ug/gU	Element	ug/gU
Al	<2	Mg	3
B	<0.1	Mn	<2
Ba	<1	Mo	<2
Be	<0.1	Na	<2
Bi	<1	Ni	40
Ca	3	P	<40
Cd	<0.1	Pb	<2
Co	<1	Sb	<5
Cr	3	Si	<2
Cu	25	Sn	<2
Fe	<5	V	<2
Li	<2	Zn	<20

Reported by:

Date:

03-23-83

Analyses contained hereon are furnished as a courtesy and should not be construed as a certification or warranty that the material will so conform.

OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 TECHNICAL SERVICES DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: COGEMA
Date received in laboratory: 17-JAN-83

Report Date: 28-MAR-83
Sample Number: 175106
Cylinder Number: COG-612

Property	Specification Limits	Analysis	
	Minimum		
Uranium Hexafluoride	99.5	99.95	Weight percent
Uranium		67.58	Weight percent
	Maximum		
Cylinder Vapor Pressure	75	---	psia
Hydrocarbons, chlorocarbons, partially substituted halohydrocarbons	0.01	---	Mole Percent
Antimony	1	<1	uG/G U-normal
Bromine	5	<5	uG/G U-normal
Chlorine	100	29	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	95.0	uG/G U-normal
Chromium	1500	<430.0	uG/G U-235
Molybdenum	200	<40.0	uG/G U-235
Tungsten	200	<40.0	uG/G U-235
Vanadium	200	<30.0	uG/G U-235
Uranium-233	500	<200	uG/G U-235
Uranium-232	0.110	0.016	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	<0.1	aged natural U
Transuranic alpha	1500	2.0	DPM alpha/G U
Technetium		0.0007	DPM alpha/G U
Uranium-234		.015	Weight Percent
Uranium-235		1.172	Weight Percent
Uranium-236		.23	Weight Percent

Reported by:

The following samples have been composited:

175047, 175107, 175106, 175105, 175104
175103, 175102, 175050, 175049, 175048

03-29-83

UF6 SUPPLEMENTAL ANALYSIS REPORT

Sample Number: 175106 Shipping Document:

Cylinder Numbers	Chemical and Isotopic Analyses (Wt. %)	
	UF6	99.95
	U-234	.015
	U-235	1.172
	U-236	.23
	U (Total)	67.58

Spectrographic Analyses (Micrograms element per gram Uranium)

Element	ug/gU	Element	ug/gU
Al	<2	Mg	4
B	<0.1	Mn	<2
Ba	<1	Mo	<2
Be	<0.1	Na	<2
Bi	<1	Ni	45
Ca	3	P	<40
Cd	<0.1	Pb	<2
Co	<1	Sb	<5
Cr	<2	Si	3
Cu	35	Sn	<2
Fe	5	V	<2
Li	<2	Zn	<20

Reported by:

Date:

03-29-83

Analyses contained hereon are furnished as a courtesy and should not be construed as a certification or warranty that the material will so conform.

OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 TECHNICAL SERVICES DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: COGEMA
Date received in laboratory: 17-JAN-83

Report Date: 28-MAR-83
Sample Number: 175105
Cylinder Number: COG-627

Property	Specification Limits	Analysis	
	Minimum		
Uranium Hexafluoride	99.5	99.99	Weight percent
Uranium		67.61	Weight percent
	Maximum		
Cylinder Vapor Pressure	75	---	psia
Hydrocarbons, chlorocarbons, partially substituted halohydrocarbons	0.01	---	Mole Percent
Antimony	1	<1	uG/G U-normal
Bromine	5	<5	uG/G U-normal
Chlorine	100	29	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	40.0	uG/G U-normal
Chromium	1500	<430.0	uG/G U-235
Molybdenum	200	<40.0	uG/G U-235
Tungsten	200	<40.0	uG/G U-235
Vanadium	200	<30.0	uG/G U-235
Uranium-233	500	<200	uG/G U-235
Uranium-232	0.110	0.010	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	<0.1	aged natural U
Transuranic alpha	1500	2.0	DPM alpha/G U
Technetium		0.0007	DPM alpha/G U
Uranium-234		.015	Weight Percent
Uranium-235		1.171	Weight Percent
Uranium-236		.24	Weight Percent

Reported by:

The following samples have been composited:

175047, 175107, 175106, 175105, 175104
175103, 175102, 175050, 175049, 175048

03-29-83

UF6 SUPPLEMENTAL ANALYSIS REPORT

Sample Number: 175105 Shipping Document:

Cylinder Numbers	Chemical and Isotopic Analyses (Wt. %)	
	UF6	99.99
	U-234	.016
	U-235	1.171
	U-236	.24
	U (Total)	67.61

Spectrographic Analyses (Micrograms element per gram Uranium)

Element	ug/gU	Element	ug/gU
Al	<2	Mg	2
B	<0.1	Mn	<2
Ba	<1	Mo	<2
Be	<0.1	Na	<2
Bi	<1	Ni	15
Ca	2	P	<40
Cd	<0.1	Pb	<2
Co	<1	Sb	<5
Cr	<2	Si	<2
Cu	15	Sn	<2
Fe	6	V	<2
Li	<2	Zn	<20

Reported by:

Date: 03-29-83

Analyses contained hereon are furnished as a courtesy and should not be construed as a certification or warranty that the material will so conform.

OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 TECHNICAL SERVICES DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: COGEMA
Date received in laboratory: 14-JAN-83

Report Date: 28-MAR-83
Sample Number: 175049
Cylinder Number: COG-632

Property	Specification Limits	Analysis	
	Minimum		
Uranium Hexafluoride	99.5	99.96	Weight percent
Uranium		67.59	Weight percent
	Maximum		
Cylinder Vapor Pressure	75	---	psia
Hydrocarbons, chlorocarbons, partially substituted halohydrocarbons	0.01	---	Mole Percent
Antimony	1	<1	uG/G U-normal
Bromine	5	<5	uG/G U-normal
Chlorine	100	29	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	72.0	uG/G U-normal
Chromium	1500	<430.0	uG/G U-235
Molybdenum	200	40.0	uG/G U-235
Tungsten	200	<40.0	uG/G U-235
Vanadium	200	<30.0	uG/G U-235
Uranium-233	500	<400	uG/G U-235
Uranium-232	0.110	<0.005	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	<0.1	aged natural U
Transuranic alpha	1500	2.0	DPM alpha/G U
Technetium		0.0007	DPM alpha/G U
Uranium-234		.016	Weight Percent
Uranium-235		1.171	Weight Percent
Uranium-236		.22	Weight Percent

Reported by:

03-28-83

The following samples have been composited:

175047, 175107, 175106, 175105, 175104
175103, 175102, 175050, 175049, 175048

UF6 SUPPLEMENTAL ANALYSIS REPORT

Sample Number: 175049 Shipping Document:

Cylinder Numbers	Chemical and Isotopic Analyses (Wt. %)	
	UF6	99.96
	U-234	.016
	U-235	1.171
	U-236	.22
	U (Total)	67.59

Spectrographic Analyses (Micrograms element per gram Uranium)

Element	ug/gU	Element	ug/gU
Al	<2	Mg	<2
B	<0.1	Mn	<2
Ba	<1	Mo	<2
Be	<0.1	Na	10
Bi	<1	Ni	40
Ca	<2	P	<40
Cd	<0.1	Pb	4
Co	<1	Sb	<5
Cr	3	Si	<2
Cu	15	Sn	<2
Fe	<5	V	<2
Li	<2	Zn	<20

Reported by:

Date: 03-28-83

Analyses contained hereon are furnished as a courtesy and should not be construed as a certification or warranty that the material will so conform.

OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 TECHNICAL SERVICES DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: COGEMA
Date received in laboratory: 18-JAN-83

Report Date: 13-APR-83
Sample Number: 175108
Cylinder Number: COG-615

Property	Specification Limits	Analysis	
	Minimum		
Uranium Hexafluoride	99.5	99.96	Weight percent
Uranium		67.59	Weight percent
	Maximum		
Cylinder Vapor Pressure	75	---	psia
Hydrocarbons, chlorocarbons, partially substituted halohydrocarbons	0.01	<0.01	Mole Percent
Antimony	1	<1	uG/G U-normal
Bromine	5	<5	uG/G U-normal
Chlorine	100	26	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	20	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	110.0	uG/G U-normal
Chromium	1500	<430.0	uG/G U-235
Molybdenum	200	<40.0	uG/G U-235
Tungsten	200	<40.0	uG/G U-235
Vanadium	200	<30.0	uG/G U-235
Uranium-233	500	<200	uG/G U-235
Uranium-232	0.110	<0.005	uG/G U-235
Boron equivalent cross section	8	0.1	uG/G U-normal
Fission product gamma	20	<5	Percent of
Fission product beta	10	<0.1	aged natural U
Transuranic alpha	1500	NONE DET	DPM alpha/G U
Technetium		0.035	uG/G U-normal
Uranium-234		.016	Weight Percent
Uranium-235		1.170	Weight Percent
Uranium-236		.23	Weight Percent

Reported by:

The following samples have been composited:

175108, 175109

04-13-83

UF6 SUPPLEMENTAL ANALYSIS REPORT

Sample Number: 175108 Shipping Document:

Cylinder Numbers	Chemical and Isotopic Analyses (Wt. %)	
	UF6	99.96
	U-234	.016
	U-235	1.170
	U-236	.23
	U (Total)	67.59

Spectrographic Analyses (Micrograms element per gram Uranium)

Element	ug/gU	Element	ug/gU
Al	<2	Mg	<2
B	<0.1	Mn	<2
Ba	<1	Mo	<2
Be	<0.1	Na	<2
Bi	<1	Ni	60
Ca	<2	P	<40
Cd	<0.1	Pb	<2
Co	<1	Sb	<5
Cr	<2	Si	<2
Cu	40	Sn	<2
Fe	10	V	<2
Li	<2	Zn	<20

Reported by:

Date: 04-13-83

Analyses contained hereon are furnished as a courtesy and should not be construed as a certification or warranty that the material will so conform.

OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 TECHNICAL SERVICES DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: COGEMA
Date received in laboratory: 21-JAN-83

Report Date: 13-APR-83
Sample Number: 175109
Cylinder Number: COG-598

Property	Specification Limits	Analysis	
	Minimum		
Uranium Hexafluoride	99.5	99.98	Weight percent
Uranium		67.61	Weight percent
	Maximum		
Cylinder Vapor Pressure	75	---	psia
Hydrocarbons, chlorocarbons, partially substituted halohydrocarbons	0.01	---	Mole Percent
Antimony	1	<1	uG/G U-normal
Bromine	5	<5	uG/G U-normal
Chlorine	100	26	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	1	uG/G U-normal
Elements forming non-volatile fluorides	300	15.0	uG/G U-normal
Chromium	1500	<430.0	uG/G U-235
Molybdenum	200	50.0	uG/G U-235
Tungsten	200	<40.0	uG/G U-235
Vanadium	200	<30.0	uG/G U-235
Uranium-233	500	<200	uG/G U-235
Uranium-232	0.110	0.019	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	<0.1	aged natural U
Transuranic alpha	1500	NONE DET	DPM alpha/G U
Technetium		0.035	uG/G U-normal
Uranium-234		.016	Weight Percent
Uranium-235		1.169	Weight Percent
Uranium-236		.24	Weight Percent

Reported by:

The following samples have been composited:

175108, 175109

04-12-83

UF6 SUPPLEMENTAL ANALYSIS REPORT

Sample Number: 175109 Shipping Document:

Cylinder Numbers	Chemical and Isotopic Analyses (Wt. %)	
	UF6	99.98
	U-234	.016
	U-235	1.169
	U-236	.24
	U (Total)	67.61

Spectrographic Analyses (Micrograms element per gram Uranium)

Element	us/gU	Element	us/gU
Al	<2	Mg	<2
B	<0.1	Mn	<2
Ba	<1	Mo	<2
Be	<0.1	Na	<2
Bi	<1	Ni	5
Ca	<2	P	<40
Cd	<0.1	Pb	<2
Co	<1	Sb	<5
Cr	<2	Si	<2
Cu	10	Sn	<2
Fe	<5	V	<2
Li	<2	Zn	<20

Reported by:

Date: 04-13-83

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