OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 PROCESS SUPPORT DIVISION
URANIUM HEXAFLUORIDE ANALYSES

GDP0567

Producer: FRANCE
Date received in laboratory: 14-JAN-1985

Report Date: 25-FEB-1985
Sample Number: 175259
Cylinder Number: DU514

	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	<5.0	uG/G U-normal
Chlorine	100	<10	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	62.0	uG/G U-normal
Chromium	1500	<520.0	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	<400	uG/G U-235
Uranium-232	0.110	0.087	uG/G U-235
Boron equivalent cross section	8	NONE DET	uG/G U-normal
Fission product gamma	20	6.0	Percent of
Fission product beta	10	2.55	aged natural U
Transuranic alpha	1500	3.0	DPM alpha/G U
Technetium		<0.005	uG/G U-normal
Uranium-234		0.014	Weight Percent
Uranium-235		0.9609	Weight Percent
Uranium-236		0.34	Weight Percent

** Exceeds Specifications
R Revised Result
The following samples have been composited:
175255, 175256, 175257, 175258, 175259
175260, 175261, 175262, 175263, 175264
This report has been printed 2 times.

Reported by:

OR0014241

OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 PROCESS SUPPORT DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: FRANCE
Date received in laboratory: 11-JAN-1985

Report Date: 7-MAR-1985
Sample Number: 175258
Cylinder Number: DV100

	Specification Limits	Analysis	
	Minimum		
Uranium Hexafluoride	99.5	99.97	Weight percent
Uranium		67.60	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	<5.0	uG/G U-normal
Chlorine	100	<10	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	39.0	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	<200	uG/G U-235
Uranium-232	0.110	0.040	uG/G U-235
Boron equivalent cross section	8	NONE DET	uG/G U-normal
Fission product gamma	20	6.0	Percent of
Fission product beta	10	2.55	aged natural U
Transuranic alpha	1500	3.0	DPM alpha/G U
Technetium		<0.005	uG/G U-normal
Uranium-234		.013	Weight Percent
Uranium-235		0.8360	Weight Percent
Uranium-236		.27	Weight Percent

** Exceeds Specifications
R Revised Result
The following samples have been composited:
175255, 175256, 175257, 175258, 175259
175260, 175261, 175262, 175263, 175264
This report has been printed 2 times.

Reported by:

OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 PROCESS SUPPORT DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: FRANCE
Date received in laboratory: 15-JAN-1985

Report Date: 25-FEB-1985
Sample Number: 175263
Cylinder Number: DV682

	Specification Limits	Analysis	
	Minimum		
Uranium Hexafluoride	99.5	100.00	Weight percent
Uranium		47.61	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	<5.0	uG/G U-normal
Chlorine	100	<10	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	23.0	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	<200	uG/G U-235
Uranium-232	0.110	0.046	uG/G U-235
Boron equivalent cross section	8	NONE DET	uG/G U-normal
Fission product gamma	20	6.0	Percent of
Fission product beta	10	2.55	aged natural U
Transuranic alpha	1500	3.0	DPM alpha/G U
Technetium		<0.005	uG/G U-normal
Uranium-234		0.010	Weight Percent
Uranium-235		0.8377	Weight Percent
Uranium-236		0.23	Weight Percent

** Exceeds Specifications
R Revised Result
The following samples have been composited:
175255, 175256, 175257, 175258, 175259
175260, 175261, 175262, 175263, 175264
This report has been printed 2 times.

Reported by:

OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 PROCESS SUPPORT DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: FRANCE
Date received in laboratory: 15-JAN-1985

Report Date: 25-FEB-1985
Sample Number: 175262
Cylinder Number: SAE9100

	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	<5.0	uG/G U-normal
Chlorine	100	<10	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	28.0	uG/G U-normal
Chromium	1500	<610.0	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	<200	uG/G U-235
Uranium-232	0.110	0.067	uG/G U-235
Boron equivalent cross section	8	NONE DET	uG/G U-normal
Fission product gamma	20	6.0	Percent of
Fission product beta	10	2.55	aged natural U
Transuranic alpha	1500	3.0	DPM alpha/G U
Technetium		<0.005	uG/G U-normal
Uranium-234		0.010	Weight Percent
Uranium-235		0.8150	Weight Percent
Uranium-236		0.27	Weight Percent

** Exceeds Specifications
R Revised Result
The following samples have been composited:
175255, 175256, 175257, 175258, 175259
175260, 175261, 175262, 175263, 175264
This report has been printed 2 times.

Reported by:

OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 PROCESS SUPPORT DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: FRANCE
Date received in laboratory: 15-JAN-1985

Report Date: 21-MAR-1985
Sample Number: 175261
Cylinder Number: SAE9101P

	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	<5.0	uG/G U-normal
Chlorine	100	<10	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	10.0	uG/G U-normal
Chromium	1500	<610.0	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	<400	uG/G U-235
Uranium-232	0.110	0.056	uG/G U-235
Boron equivalent cross section	8	NONE DET	uG/G U-normal
Fission product gamma	20	6.0	Percent of aged natural U
Fission product beta	10	2.55	
Transuranic alpha	1500	3.0	DPM alpha/G U
Technetium		<0.005	uG/G U-normal
Uranium-234		0.010	Weight Percent
Uranium-235		0.8150	Weight Percent
Uranium-236		0.22 R	Weight Percent

** Exceeds Specifications
R Revised Result
The following samples have been composited:
175255, 175256, 175257, 175258, 175259
175260, 175261, 175262, 175263, 175264
This report has been printed 3 times

Reported by:

OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 PROCESS SUPPORT DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: FRANCE
Date received in laboratory: 24-JAN-1985

Report Date: 6-MAR-1985
Sample Number: 175268
Cylinder Number: DU543

	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	<5.0	uG/G U-normal
Chlorine	100	<10	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	31.0	uG/G U-normal
Chromium	1500	<610.0	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	<200	uG/G U-235
Uranium-232	0.110	0.069	uG/G U-235
Boron equivalent cross section	8	NONE DET	uG/G U-normal
Fission product gamma	20	6	Percent of aged natural U
Fission product beta	10	9.78	
Transuranic alpha	1500	6.0	DPM alpha/G U
Technetium		0.015	uG/G U-normal
Uranium-234		.012	Weight Percent
Uranium-235		0.8222	Weight Percent
Uranium-236		.24	Weight Percent

** Exceeds Specifications
R Revised Result
The following samples have been composited:
175265, 175267, 175268, 175266

Reported by:

This report has been printed 3 times.

OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 PROCESS SUPPORT DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: FRANCE
Date received in laboratory: 24-JAN-1985

Report Date: 6-MAR-1985
Sample Number: 175267
Cylinder Number: DU565

	Specification Limits Minimum	Analysis	
Uranium Hexafluoride	99.5	99.98	Weight percent
Uranium		67.60	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	<5.0	uG/G U-normal
Chlorine	100	<10	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	47.0	uG/G U-normal
Chromium	1500	<610.0	uG/G U-235
Molybdenum	200	70.0	uG/G U-235
Tungsten	200	<40.0	uG/G U-235
Vanadium	200	<40.0	uG/G U-235
Uranium-233	500	<100	uG/G U-235
Uranium-232	0.110	0.076	uG/G U-235
Boron equivalent cross section	8	NONE DET	uG/G U-normal
Fission product gamma	20	6	Percent of
Fission product beta	10	9.78	used natural U
Transuranic alpha	1500	6.0	DPM alpha/G U
Technetium		0.015	uG/G U-normal
Uranium-234		.012	Weight Percent
Uranium-235		0.8209	Weight Percent
Uranium-236		.25	Weight Percent

** Exceeds Specifications
R Revised Result
The following samples have been composited:
175265, 175267, 175268, 175266

Reported by:

This report has been printed 3 times.

OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 PROCESS SUPPORT DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: FRANCE
Date received in laboratory: 24-JAN-1985

Report Date: 25-FEB-1985
Sample Number: 175264
Cylinder Number: DV566

	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	---	Mole Percent
Antimony	1	<1	uG/G U-normal
Bromine	5	<5.0	uG/G U-normal
Chlorine	100	<10	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	26.0	uG/G U-normal
Chromium	1500	<610.0	uG/G U-235
Molybdenum	200	90.0	uG/G U-235
Tungsten	200	<40.0	uG/G U-235
Vanadium	200	<40.0	uG/G U-235
Uranium-233	500	<400	uG/G U-235
Uranium-232	0.110	0.059	uG/G U-235
Boron equivalent cross section	8	NONE DET	uG/G U-normal
Fission product gamma	20	6.0	Percent of aged natural U
Fission product beta	10	2.55	
Transuranic alpha	1500	3.0	DPM alpha/G U
Technetium		<0.005	uG/G U-normal
Uranium-234		0.012	Weight Percent
Uranium-235		0.8212	Weight Percent
Uranium-236		0.24	Weight Percent

** Exceeds Specifications
R Revised Result
The following samples have been composited:
175255, 175256, 175257, 175258, 175259
175260, 175261, 175262, 175263, 175264
This report has been printed 2 times.

Reported by:

OAK RIDGE GASEOUS DIFFUSION PLANT
K-35 PROCESS SUPPORT DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: FRANCE
Date received in laboratory: 25-JAN-1985

Report Date: 6-MAR-1985
Sample Number: 175266
Cylinder Number: DV627

	Specification Limits	Analysis	
	Minimum		
Uranium Hexafluoride	99.5	99.97	Weight percent
Uranium		67.60	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	<5.0	uG/G U-normal
Chlorine	100	<10	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	<610.0	uG/G U-235
Molybdenum	200	70.0	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	0.062	uG/G U-235
Boron equivalent cross section	8	NONE DET	uG/G U-normal
Fission product gamma	20	6	Percent of aged natural U
Fission product beta	10	9.78	
Transuranic alpha	1500	6.0	DPM alpha/G U
Technetium		0.015	uG/G U-normal
Uranium-234		.012	Weight Percent
Uranium-235		0.8230	Weight Percent
Uranium-236		.25	Weight Percent

** Exceeds Specifications
R Revised Result
The following samples have been composited:
175265, 175267, 175268, 175266

Reported by:

This report has been printed 2 times.

OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 PROCESS SUPPORT DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: FRANCE
Date received in laboratory: 24-JAN-1985

Report Date: 6-MAR-1985
Sample Number: 175265
Cylinder Number: DU603

	Specification Limits	Analysis	
	Minimum		
Uranium Hexafluoride	99.5	99.99	Weight percent
Uranium		67.62	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	<5.0	uG/G U-normal
Chlorine	100	<10	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	15	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	24.0	uG/G U-normal
Chromium	1500	<680.0	uG/G U-235
Molybdenum	200	70.0	uG/G U-235
Tungsten	200	<70.0	uG/G U-235
Vanadium	200	<40.0	uG/G U-235
Uranium-233	500	<100	uG/G U-235
Uranium-232	0.110	0.048	uG/G U-235
Boron equivalent cross section	8	NONE DET	uG/G U-normal
Fission product gamma	20	6	Percent of aged natural U
Fission product beta	10	9.78	
Transuranic alpha	1500	6.0	DPM alpha/G U
Technetium		0.015	uG/G U-normal
Uranium-234		.010	Weight Percent
Uranium-235		0.7371	Weight Percent
Uranium-236		.19	Weight Percent

** Exceeds Specifications
R Revised Result
The following samples have been composited:
175265, 175267, 175268, 175266

Reported by:

This report has been printed 4 times.

OAK RIDGE GASEOUS DIFFUSION PLANT
K-35 PROCESS SUPPORT DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: FRANCE
Date received in laboratory: 14-JAN-1985

Report Date: 25-FEB-1985
Sample Number: 175260
Cylinder Number: DU637

	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	<5.0	uG/G U-normal
Chlorine	100	<10	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	26.0	uG/G U-normal
Chromium	1500	<610.0	uG/G U-235
Molybdenum	200	70.0	uG/G U-235
Tungsten	200	<60.0	uG/G U-235
Vanadium	200	<40.0	uG/G U-235
Uranium-233	500	<400	uG/G U-235
Uranium-232	0.110	0.093	uG/G U-235
Boron equivalent cross section	8	NONE DET	uG/G U-normal
Fission product gamma	20	6.0	Percent of
Fission product beta	10	2.55	aged natural U
Transuranic alpha	1500	3.0	DPM alpha/G U
Technetium		<0.005	uG/G U-normal
Uranium-234		.011	Weight Percent
Uranium-235		0.8257	Weight Percent
Uranium-236		.24	Weight Percent

** Exceeds Specifications
R Revised Result
The following samples have been composited:
175255, 175256, 175257, 175258, 175259
175260, 175261, 175262, 175263, 175264
This report has been printed 2 times.

Reported by:

OAK RIDGE GASEOUS DIFFUSION PLANT
K-25 PROCESS SUPPORT DIVISION
URANIUM HEXAFLUORIDE ANALYSES

Producer: FRANCE
Date received in laboratory: 11-JAN-1985

Report Date: 6-MAR-1985
Sample Number: 175257
Cylinder Number: SAE2599

	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	<5.0	uG/G U-normal
Chlorine	100	<10	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	32.0	uG/G U-normal
Chromium	1500	<610.0	uG/G U-235
Molybdenum	200	60.0	uG/G U-235
Tungsten	200	<40.0	uG/G U-235
Vanadium	200	<40.0	uG/G U-235
Uranium-233	500	<100	uG/G U-235
Uranium-232	0.110	0.056	uG/G U-235
Boron equivalent cross section	8	NONE DET	uG/G U-normal
Fission product gamma	20	6.0	Percent of aged natural U
Fission product beta	10	2.55	
Transuranic alpha	1500	3.0	DPM alpha/G U
Technetium		<0.005	uG/G U-normal
Uranium-234		.011	Weight Percent
Uranium-235		0.8148	Weight Percent
Uranium-236		.27	Weight Percent-

** Exceeds Specifications
R Revised Result
The following samples have been composited:
175255, 175256, 175257, 175258, 175259
175260, 175261, 175262, 175263, 175264
This report has been printed 2 times.

Reported by: