

Updated Q-10. Are the cylinders in shippable condition?

Updated A-10. Most of the Portsmouth off-spec UF₆ would meet DOT requirements for shipping. Paducah has 94 nominally full cylinders of off-spec UF₆ that, based on inventory records, should be shippable. 93 of them will require an approved over-pack.

Q-11. How many cylinders have U235 assays above 0.3%? Give a histogram of the cylinder number versus assay?

A-11. See document "Portsmouth and Paducah DUF₆ Inventory."

Q-12. Of the cylinders with U235 assay above 0.3%, how many have process history records?

A-12. All the Paducah and Portsmouth generated cylinders have inventory records; however, the cylinders stored at Portsmouth but generated at ETPP do not have complete records.

Q-13. Of the cylinders with process history records, how many have been reviewed and meet one or more of the following criteria?

- **New cylinders filled with DUF₆**
- **Used cylinders filled with natural UF₆, washed, then filled with DUF₆**
- **Used cylinders filled with natural UF₆, not washed, then filled with DUF₆**
- **Used cylinders filled with low enriched UF₆ (not associated with UF₆ from reactor returns), washed, then filled with DUF₆**
- **Used cylinders with history of use with UF₆ from reactor returns, washed and cleaned, then filled with DUF₆**

A-13. Of the approximately 21,000 cylinders at Portsmouth, 9,174 have been reviewed. 6,608 of the 9,174 meet one or more of the above criterion. 33 of the 6,608 have been processed by DUF₆ leaving 6,575. (see note 1) 2,566 cylinders had incomplete records and DOE could not determine whether or not they met any criterion. The remaining Portsmouth cylinder inventory records have not yet been reviewed.

Of the approximately 45,000 cylinders at Paducah, 15,546 cylinders have been reviewed. 13,240 of the 15,546 meet one or more of the above criterion. 1779 of the 13,240 1,779 have been processed by DUF₆ leaving 11,461. (see note 1). The remaining Paducah cylinder inventory records have yet to be reviewed.

Note: Due to processing of the DUF₆ by BWCS, the tables below reflect the current inventory of cylinders that meet a criterion and indicate the difference from the cylinders reviewed and those remaining in inventory.

Paducah Cylinder Inventory

Assay Range	Cylinders	MTU
.151-.20	2,344	20,093
.201 - .25	3,933	33,630
.251 - .30	2,542	21,767
.301 - .32	1,012	8,663
.321 - .34	35	299
.341 - .35	516	4,422
.351 - .36	398	3,411
.361 - .38	24	206
.381 - .40	495	4,242
.401 - .42	50	429
.421 - .44	1	9
.441 - .45	52	436
.451 - .46	58	490
.461 - .48	1	9
Grand Total	11,461	98,104

Portsmouth Cylinder Inventory

Assay Range	Cylinders	MTU
.151 - .20	148	1,268.82
.201 - .25	983	8,397.98
.251 - .30	1,086	9,217.95
.301 - .32	120	1,012.55
.321 - .34	94	790.37
.341 - .35	1,282	10,807.18
.351 - .36	1,807	15,228.15
.361 - .38	30	252.65
.381 - .40	447	3,740.47
.401 - .42	508	4,253.02
.421 - .44	48	401.86
.441 - .45	2	16.86
.451 - .46	1	8.41
.501 - .52	5	42.02
.521 - .54	14	118.03
Grand Total	6,575	55,556.30

Q-14. Of the above cylinders, how many have sample results for minor uranium isotopes, transuranics, and fission products? What are the sample results?

A-14. The number of available sample results is limited and is posted as DUF6 Transfer Sample Report posted on the PPPO website at: <http://www.pppo.energy.gov/Notices.html>