

# Major MOX Project Issues

This presentation addresses the following MOX topics presented by

Bob Raines:

- MOX Project Cost and Schedule
- NNSA Mandated 4% Inflation Rate Impact on Cost and Schedule
- MOX Fuel Facilities Operating Costs After Construction is Complete
- MOX Program vs Dilute and Dispose Program
- NNSA Manage to Termination Policy for the MOX Project

# MOX Project Cost and Schedule

# Estimate to complete the MOX Project

Category	DOE Estimate (\$B)	Contractor Estimate (\$B)	Delta (\$B)	Comments
<b>Total</b>	\$17.2	\$9.9	\$7.3	This delta demonstrates the need for a real and unbiased rebaselining. Follow the GNAC recommendation for a rebaselining.
<b>Escalation from 4% Inflation</b>	\$5.1	\$0.4	\$4.7	NNSA states, "This (4%) is a consistent escalation estimate used for <u>all</u> of NNSA's new nuclear capital asset acquisitions" Page 9 of the 2016 DOE Updated Performance Baseline
<b>Obsolescence</b>	\$0.5	\$0.05	\$0.5	No GAO guidelines for this add to the cost. The 15 year MOX operational budget includes \$300M for capital improvements and obsolescence in addition to \$372M for parts and maintenance
<b>Risk</b>	\$1.4	\$0.6	\$0.8	NNSA went from 85% to 95% - exceeds GAO standards
<b>Level of Effort</b>	\$4.7	\$3.9	\$0.8	Additional effort and cost caused by the 4% escalation rate schedule changes
<b>Other</b>	\$0.5	\$0.4	\$0.1	Will be added to the contract – new work not originally in estimate
<b>Completion Date</b>	2048	2029	19 years	The NNSA position is a project that is 70% complete will require 31 years to finish

Normalizing brings both estimates very close. The delta is the combination of under reporting of construction progress by NNSA, cost escalation through a 4% inflation rate which increases the level of effort, cost and schedule, additional scope and artificial obsolescence value

# 2012 Corps of Engineer Estimate vs Contractor

Estimator	Estimate Contents	Value
MOX Services	Excluded the DMO (Direct Metal Oxidation contract add), includes contractor fee and uses 85% confidence	\$7.9B
USACE – independent estimate	Includes the DMO costs, excludes contractor award fee, 95% confidence, boundary escalation	\$9.4B
Adjustment of both Bids for to compare the contents. The results demonstrate that both bids are very close	Used 2.0% inflation, includes the DMO costs, uses the original 85% confidence	Contractor value: \$8.2B USACE value: \$8.5B

In 2012 the Corps of Engineers prepared an estimate to complete the MOX project. They included items which were variations in the estimate baseline from the Contractor's estimate. When the two estimates were normalized with each estimate containing the same items, the Corps of Engineers estimate was within \$300M of the contractor. The NNSA prevented the formal completion of the comparison of the two estimates by suspending the contractor's work on the estimate.

# History of Estimating the EAC

NNSA Estimates	Date	Estimate	
CD-2 (Baseline at start of project)	2008	\$4.8B	Original estimate
US ACE (ICE for rebaseline)	2013	\$9.4B	This estimate was nearly the same as the contractor
NNSA Pu Working Group	2014	\$10B	Estimate compares to current contractor \$9.9B estimate
Aerospace Report	2015	\$21B	This DOE estimate was discredited because of NNSA interference and instructing the contractor which values to use. See Congressional letters confirming this fact.
FPD Estimate	2016	\$14-16B	

MOX Services Estimates	Date	Estimate	
CD-2	2008	\$4.8B	
Rebaseline @ 2% inflation rate	2012	\$7.9B	
EAC	2013-2014	Not Performed	
EAC (includes discrete work only per FPD)	2015	\$10B (mid-range estimate of several scenarios)	
EAC (2 funding scenarios)	2016	\$8.4B - \$10B	

## The following organizations want a bottoms up rebaselining of the cost to complete MOX

- The United States Senate
  - Senate Armed Service Committee – signed into law by the President
- The United States House of Representatives
  - House Armed Services committee
- The Governor of South Carolina
- The South Carolina delegation
- CBI-Areva (Contractor)
- Special interest Groups

The NNSA says they have completed a cost rebaselining and do not need to do another. At this point the only organization opposed to doing a pipe by pipe analysis to find out what the real costs will be to complete MOX before abandoning the \$5B taxpayer investment is the NNSA

# NNSA Mandated 4% Inflation Rate Impact on Cost and Schedule

NNSA States on Page 9 of the 2016 Updated MOX Performance Baseline, “This (4%) is a consistent escalation estimate used for all of NNSA’s new nuclear capital asset acquisitions”

## Comparison: UPF Project at Oak Ridge Projected Contract Inflation Rate

UPF Escalation used for Project Baseline.

Cost Category	2017	2018	2019	2020	2021	2022	2023	2024	2025	Average
Craft Labor	0.0285	0.0310	0.0312	0.0317	0.0320	0.0312	0.0310	0.0310	0.0310	0.0310
ODCs & Const Equip	0.0112	0.0120	0.0112	0.0117	0.0112	0.0102	0.0100	0.0100	0.0100	0.0108
Travel, Relo & Temp	-0.0003	0.0025	0.0214	0.0310	0.0312	0.0302	0.0300	0.0300	0.0300	0.0229
Bulk Material	0.0213	0.0119	0.0095	0.0132	0.0125	0.0120	0.0120	0.0120	0.0120	0.0129
Subcontract Costs	0.0232	0.0180	0.0170	0.0202	0.0195	0.0190	0.0190	0.0190	0.0190	0.0193
Engrd Equip	0.0186	0.0457	0.0437	0.0255	0.0185	0.0202	0.0210	0.0210	0.0210	0.0261
Non-Manual Labor	0.0000	0.0194	0.0275	0.0317	0.0315	0.0310	0.0310	0.0310	0.0310	0.0260
Average Annual Inflation	0.0146	0.0201	0.0231	0.0236	0.0223	0.0220	0.0220	0.0220	0.0220	<b>0.0213</b>

The NNSA is presently trying to estimate what UPF will cost to complete. They are using 2.13% as the composite inflation rate. UPF is an NNSA project with a funding profile similar to MOX. Total budget is \$6.5B. Completion scheduled in 2025. The project appears to be already running over budget according to the Government Accountability Office with identified likely increases of \$1B. The Government Accountability Office stated, “The Administration has either rough or no estimate of total costs”. (KNOX News 9-22-17)

**If 2.1% is appropriate for UPF, why is the NNSA using 4% as the inflation rate for MOX?**



# Costs and Time Added by DOE Accounting Practices (2016 DOE Updated Performance Baseline)

Item	Cost	Time added	Notes
4.0% inflation rate	\$4.7B	13.5 Years	DOE had previously mandated 2.3% from Global Insight until Secretary Moniz joined the DOE and changed DOE policy. Albuquerque recommended 2.3%
95% Confidence Rate (Contingency)	\$800M	2 Years	This confidence rate is outside of DOE guidelines and is not used on other DOE projects. Changing with a project 70% complete is outside of normal accounting practices Management reserve (MR) and contingency are calculated using a Monte Carlo analysis which provides a probability distribution. DOE G 413.3-7A, Risk Management Guide attachment 12, recommends a range of 70-90 percent confidence. The DOE used a 95% confidence to determine the dollar value of MR/contingency, which is not within the recommended range. (2016 DOE Updated Performance Baseline)
Obsolescence	\$500M	1.5 Years	Not an issue with long term reactor projects, an arbitrary assignment of costs without justification. NNSA added this number even though there is no 'Best Practice' guidance from GAO, NIDIA or DOE to add a plug number for obsolescence. The NNSA ignores the 38M/ yr in the annual operations budget for equipment replacement.
LOE extension	\$800M	2.0 Years	Additional level of effort because of the increased inflation rate and extension of the contract life. This is due to the longer schedule duration to 2048 in the DOE 2016 updated PB. Level of effort costs are incurred until a project is complete. These costs include portions or all of Project Management, Construction Management, QA/QC, Environmental Safety & Health (ES&H), Project Controls, Human Resources, Finance & Accounting, Training, Information Technology, Document Control, NNSA Subcontractors, NRC, etc.
Direct Metal Oxide scope change	\$200M	1 year	New work not included in the original schedule or scope of work. Direct Metal Oxide is a plant modification not currently on contract. The Contractor does not include it in the FY17 EAC. The modification requires specialized furnaces to be installed in the MFFF to convert plutonium metal to plutonium oxide. When this scope is added to the contract, it will require additional budget and EAC.
<b>Total Cost and time Added by DOE</b>	<b>\$7B</b>	<b>20 Years</b>	

# 10/20 Year Labor Inflation Rate at MOX by Category

Asbestos Workers		Boilermakers Journeyman		Cement Masons Journeyman		Carpenters Journeyman		Electricians Journeyman		Iron Workers Journeyman		Laborers Journeyman		Millwrights Journeyman												
2007	\$23.58	1.275%	2007	\$25.13	1.433%	2007	\$20.35	1.879%	2007	\$21.05	2.520%	2007	\$24.02	1.415%	2007	\$24.41	1.645%	2007	\$15.00	2.480%	2007	\$22.20	2.125%			
2008	\$23.88		2008	\$25.49		2008	\$20.73		2008	\$21.58		2008	\$24.36		2008	\$24.81		2008	\$15.37		2008	\$22.67				
2009	\$24.19		2009	\$25.86		2009	\$21.12		2009	\$22.12		2009	\$24.70		2009	\$25.22		2009	\$15.75		2009	\$23.15				
2010	\$24.49		2010	\$26.23		2010	\$21.52		2010	\$22.68		2010	\$25.05		2010	\$25.63		2010	\$16.14		2010	\$23.65				
2011	\$24.81		2011	\$26.60		2011	\$21.92		2011	\$23.25		2011	\$25.41		2011	\$26.06		2011	\$16.54		2011	\$24.15				
2012	\$25.12		2012	\$26.98		2012	\$22.34		2012	\$23.84		2012	\$25.77		2012	\$26.48		2012	\$16.95		2012	\$24.66				
2013	\$25.44		2013	\$27.37		2013	\$22.75		2013	\$24.44		2013	\$26.13		2013	\$26.92		2013	\$17.38		2013	\$25.19				
2014	\$25.77		2014	\$27.76		2014	\$23.18		2014	\$25.06		2014	\$26.50		2014	\$27.36		2014	\$17.81		2014	\$25.72				
2015	\$26.10		2015	\$28.16		2015	\$23.62		2015	\$25.69		2015	\$26.88		2015	\$27.81		2015	\$18.25		2015	\$26.27				
2016	\$26.43		2016	\$28.56		2016	\$24.06		2016	\$26.33		2016	\$27.26		2016	\$28.27		2016	\$18.70		2016	\$26.83				
2017	\$26.76		2017	\$28.97		2017	\$24.51		2017	\$27.00		2017	\$27.64		2017	\$28.74		2017	\$19.16		2017	\$27.40				
20 Year Analysis																										
Pipefitters Journeyman		Sheetmetal Workers Journeyman		Teamsters Journeyman		Operation Engineers Journeyman		Pipefitter Journeyman																		
2007	\$22.92	2.665%	2007	\$24.03	1.564%	2007	\$20.99	2.824%	2007	\$22.13	3.300%	1997	\$19.03	2.271%												
2008	\$23.53		2008	\$24.41		2008	\$21.58		2008	\$22.86		1998	\$19.46													
2009	\$24.16		2009	\$24.79		2009	\$22.19		2009	\$23.61		1999	\$19.46													
2010	\$24.80		2010	\$25.18		2010	\$22.82		2010	\$24.39		2000	\$19.46													
2011	\$25.46		2011	\$25.57		2011	\$23.46		2011	\$25.20		2001	\$19.46													
2012	\$26.14		2012	\$25.97		2012	\$24.13		2012	\$26.03		2002	\$19.46													
2013	\$26.84		2013	\$26.38		2013	\$24.81		2013	\$26.89		2003	\$19.46													
2014	\$27.55		2014	\$26.79		2014	\$25.51		2014	\$27.78		2004	\$19.46													
2015	\$28.29		2015	\$27.21		2015	\$26.23		2015	\$28.69		2009	\$19.46													
2016	\$29.04		2016	\$27.63		2016	\$26.97		2016	\$29.64		2010	\$19.46													
2017	\$29.82		2017	\$28.06		2017	\$27.73		2017	\$30.62		2011	\$19.46													
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Actual rates for craft personnel staffing the MOX project and the average annual increase since project inception by craft category based on the union labor agreements

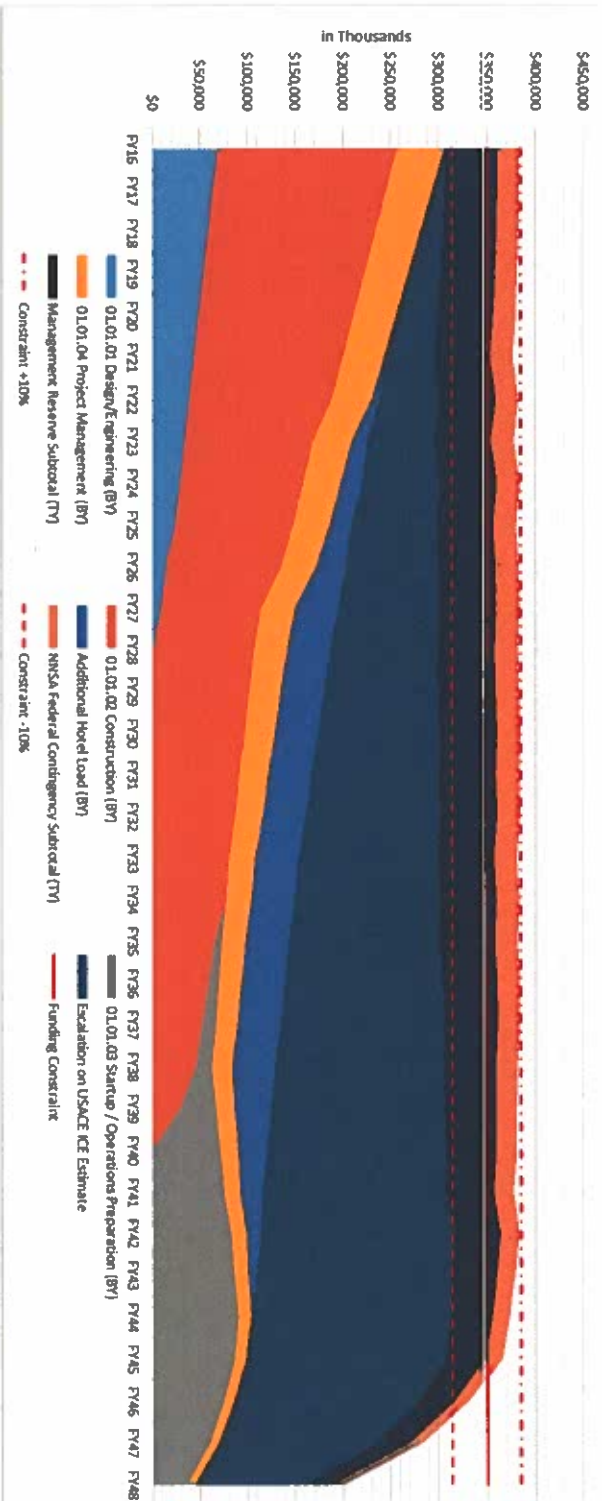
# Composite MOX 10/20 Year Craft Labor Inflation Rate Summary

Craft Type	Current MOX FTEs by craft (07 JAN 18)	Average Annual Rate Increase/yr	Weighted Value
Asbestos Workers Journeyman	5	1.3%	0.06
Electricians Journeyman	72	1.4%	1.02
Pipefitters Journeyman	105	2.7%	2.80
Boilermakers Journeyman	13	1.4%	0.19
Iron Workers Journeyman	81	1.6%	1.33
Sheetmetal Workers Journeyman	138	1.6%	2.16
Cement Masons Journeyman	13	1.9%	0.24
Laborers Journeyman	45	2.5%	1.12
Teamsters Journeyman	9	2.8%	0.25
Carpenters Journeyman	44	2.5%	1.11
Millrights Journeyman	26	2.1%	0.55
Operation Engineers Journeyman	26	3.3%	0.86
Painters**	30	2.5%	0.75
<b>TOTAL</b>	<b>607</b>	<b>2.0%</b>	<b>12.44</b>

# Average CPI Inflation for Previous 28 Years = 2.47%

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual Rate
1990	5.2	5.3	5.2	4.7	4.4	4.7	4.8	5.6	6.2	6.3	6.3	6.1	5.4
1991	5.7	5.3	4.9	4.9	5	4.7	4.4	3.8	3.4	2.9	3	3.1	4.2
1992	2.6	2.8	3.2	3.2	3	3.1	3.2	3.1	3	3.2	3	2.9	3
1993	3.3	3.2	3.1	3.2	3.2	3	2.8	2.8	2.7	2.8	2.7	2.7	3
1994	2.5	2.5	2.5	2.4	2.3	2.5	2.8	2.9	3	2.6	2.7	2.7	2.6
1995	2.8	2.9	2.9	3.1	3.2	3	2.8	2.6	2.5	2.8	2.6	2.5	2.8
1996	2.7	2.7	2.8	2.9	2.9	2.8	3	2.9	3	3	3.3	3.3	3
1997	3	3	2.8	2.5	2.2	2.3	2.2	2.2	2.2	2.1	1.8	1.7	2.3
1998	1.6	1.4	1.4	1.4	1.7	1.7	1.7	1.6	1.5	1.5	1.5	1.6	1.6
1999	1.7	1.6	1.7	2.3	2.1	2	2.1	2.3	2.6	2.6	2.6	2.7	2.2
2000	2.7	3.2	3.8	3.1	3.2	3.7	3.7	3.4	3.5	3.4	3.4	3.4	3.4
2001	3.7	3.5	2.9	3.3	3.6	3.2	2.7	2.7	2.6	2.1	1.9	1.6	2.8
2002	1.1	1.1	1.5	1.6	1.2	1.1	1.5	1.8	1.5	2	2.2	2.4	1.6
2003	2.6	3	3	2.2	2.1	2.1	2.1	2.2	2.3	2	1.8	1.9	2.3
2004	1.9	1.7	1.7	2.3	3.1	3.3	3	2.7	2.5	3.2	3.5	3.3	2.7
2005	3	3	3.1	3.5	2.8	2.5	3.2	3.6	4.7	4.3	3.5	3.4	3.4
2006	4	3.6	3.4	3.5	4.2	4.3	4.1	3.8	2.1	1.3	2	2.5	3.2
2007	2.1	2.4	2.8	2.6	2.7	2.7	2.4	2	2.8	3.5	4.3	4.1	2.8
2008	4.3	4	4	3.9	4.2	5	5.6	5.4	4.9	3.7	1.1	0.1	3.8
2009	0	0.2	-0.4	-0.7	-1.3	-1.4	-2.1	-1.5	-1.3	-0.2	1.8	2.7	-0.4
2010	2.6	2.1	2.3	2.2	2	1.1	1.2	1.1	1.1	1.2	1.1	1.5	1.6
2011	1.6	2.1	2.7	3.2	3.6	3.6	3.6	3.8	3.9	3.5	3.4	3	3.2
2012	2.9	2.9	2.7	2.3	1.7	1.7	1.4	1.7	2	2.2	1.8	1.7	2.1
2013	1.6	2	1.5	1.1	1.4	1.8	2	1.5	1.2	1	1.2	1.5	1.5
2014	1.6	1.1	1.5	2	2.1	2.1	2	1.7	1.7	1.7	1.3	0.8	1.6
2015	-0.1	0	-0.1	-0.2	0	0.1	0.2	0.2	0	0.2	0.5	0.7	0.1
2016	1.4	1	0.9	1.1	1	1	0.8	1.1	1.5	1.6	1.7	2.1	1.3
2017	2.5	2.7	2.4	2.2	1.9	1.6	1.7	1.9	2.2	2	2.2	2.1	2.1

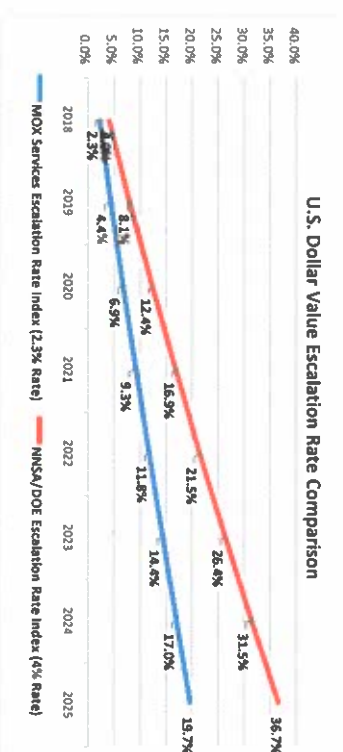
## Impact of NNSA Decision to use 4% Inflation Rate



This figure shows how the fixing the annual appropriation and using a 4% inflation rate influences the availability of funds as the project moves forward. The % of appropriated funds available for construction declines every year and as a result increases the time to complete the project as well as the cost for the level of effort and hotel costs. Artificially fixing the annual appropriation for 31 years at \$350M guarantees that less and less money is available to perform construction. The best way to avoid the impact of inflation is to fund the project at its optimum productivity level (\$500+M/Yr) and to choose the proper inflation rate for projections vs choosing an inflation rate that drives up the cost and extends the schedule and thus supports the Manage to Termination policy of the NNSA.

## 2.3% vs 4.0% Impact on Available Project Funding

ESCALATION RATES: Dramatic Difference in Impact of the Two Different Rates Being Used



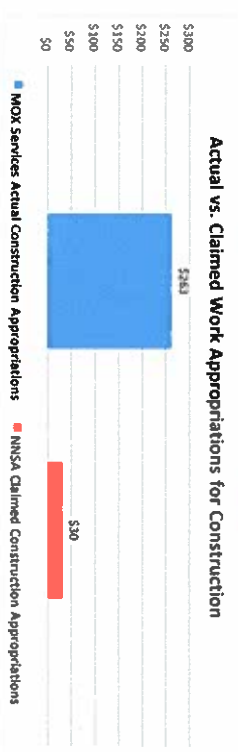
This graphic demonstrates the effect on an annual basis of the delta between the new NNSA mandated 4% inflation rate and the 2.3% rate the contractor was instructed to use in long term estimates. The NNSA

NNSA asserts that only about \$30M was spent on direct cost of construction in FY17. This claim position adds \$233M in costs to the final cost to complete estimate. The contractor states they are spent \$263M in FY17 on discrete construction and discrete support work to continue construction of the MOX facility.

- According to government support services company Global Insight, the typical base escalation rate best applied to nuclear construction projects is 2.3% – the same rate being used by MOX Services.
- NNSA/DOE are using an unrealistic escalation rate of about 4%, leading to inaccurate overall costs and completion dates of the MOX Facility.

### Construction Spending Dispute:

\$300 million (MOX Services) vs. \$30 million (NNSA)



Global Insight, a Government support services company, states the typical base escalation rate best applied to nuclear construction is 2.3% - which is the same rate that the contractor is using in their estimates.

**MOX Fuel Facilities Operating  
Costs After Construction is  
Complete**

# MFFF Operating Cost Information – Actual vs NNSA Estimate

	NNSA 2013	PWG 2014	MOX Services To-Go 2015	MOX Services Annual Operation budget
MFFF Capital	\$M 7,424	\$M 10,000	\$M 5,300	\$M
WCS Capital	368	400	0	0
POCF Capital	730	730	0	0
MFFF Operations - 17 years	7,161	8,145	5,100	300.0
WCS Operations	1,010	2,115	500	25.0
Security Operations	1,068	1,300	1,300	66.0
Fuel Qualification/Shipping/Reactor support <sup>2</sup>				
(MFT)	1,117	800	200	
LANL, H-Canyon, Pantex (22 years)	4,515	7,100	6,000	280.9
Fuel qualification with GEAV		1,000	0	0
<b>TOTAL</b>	<b>24,353</b>	<b>31,640</b>	<b>18,400</b>	

MFFF Operations cost Annual breakdown 17 years	MOX Services 2008	NNSA estimate 2008
Labor (~1000 employees)	\$M 127.0	\$M 123.0
Capital Improvements	19.0	19.7
Maintenance	18.2	16.2
Spare Parts	8.0	8.0
Consumables	2.6	8.1
Other	23.3	34.5
Fee	20.0	26.5
MNC cost	5.0	5.0
Gov Furnished	21.5	21.5
Waste Disposal	0.0	18.1
Reactor Customer	0.0	1.7
Security Force	50.1	50.1
Contingency	0.0	32.0
<b>TOTAL</b>	<b>251.4</b>	<b>268.6</b>

<sup>1</sup>These costs are necessary for either MOX or disposal in WHPP  
<sup>2</sup>If another Lead Test Assembly program is required this cost will increase

- 2008 Contractor and NNSA cost to operate nearly the same
- NNSA estimate to complete MOX was 7.2B in 2013.
- NNSA Began adding costs in 2013 to operations with “life-cycle cost concept”
- Actual annual costs in France \$237M/yr – 1000 people. NNSA estimate for MOX operations is \$1B/yr for 1000 people
- NNSA added costs which already exist in other budgets and failed to capture EM costs among others. It appears they added Pantex, LANL, security and other life cycle costs not related to MOX.

WSB = Waste Solidification Bid  
 PDCF = Plutonium Working Group  
 PWG = Plutonium Working Group  
 France – of 1000 employees, 527 run the plant  
 Security Force charge of SOM is excessive  
 Total SR Safety and Security Budget 136M  
 Obsolescence, maint, cap, improvements, parts \$670M is in operations budget  
 Contents and costs of labs in fuel qualification is unknown and significant  
 No visibility into LANL, H-Canyon, Pantex charges

Data from AREVA 2013				
Annual Operation costs	La Hague T4-624	La Hague URP	MOXeur within integrated platform	Totals
Total Nbr Staff (inc. Lab + Support + security)	115	55	750	920
24/7 operation				
Total Staff (Euros)	10,025	5,225	71,250	87,400
Consumables (Euros)	1,900	500	14,500	16,900
Utilities (Euros)	3,000	300		3,300
Liquid Waste (Euros)	1,200			1,200
Solid Waste (Euros)	600	400	18,500	19,500
Laboratory Analysis (Euros)	2,500	1,200		3,700
Maintenance (Euros)	3,200	1,300	37,000	41,500
Taxes, impods, service ES&H (Euros)	9,800	1,000	6,715	17,515
				0
<b>Totals (Euros)</b>	<b>33,125</b>	<b>9,925</b>	<b>147,965</b>	<b>191,015</b>



# **MOX Program vs Dilute and Dispose Program**

# WIPP Obstacles

- EM has fully subscribed WIPP
- Regulatory issues remain undefined
- Expanding WIPP is extremely problematic and has not been approached either legally or scientifically.
- Reopening the licensing of WIPP to evaluate this new, unanalyzed Pu concentration could lead to unacceptable consequences for the nation
- The amount of fissile plutonium being added to the repository is nearly three times the amount in the permit.
- According to Industry Experts, the DOE has not performed a Criticality Safety Evaluation (CSE) for the WIPP repository.
- There is no precedent for DOE terminating Safeguards for this quantity of surplus weapons grade plutonium.
- Shipping and transportation issues.
- The obstacle at MOX is getting it finished – proven technology

# New Mexico Pu<sup>239</sup> Stockpile Ranking vs World Nuclear Powers after D&D Program Completed

Country	Tons of Stockpiled Weapons Grade Pu <sup>239</sup> on Hand
Russia	128
United States	87.6
New Mexico	40
France	6.0
India	5.7
United Kingdom	3.2
China	1.8
Israel	.86
Pakistan	.2
North Korea	.03

Information from the International Panel on Fissile Materials as of 2016

## Former Secretary of US Dept of Energy and Governor of New Mexico – Bill Richardson Statement on D&D

New Mexicans and anyone else who cares about the safe reopening of the Waste Isolation Pilot Plant (WIPP) near Carlsbad should be concerned about recent reports of plans to move tons of dangerous nuclear weapons-grade plutonium to WIPP, and overwhelm WIPP's capability to clean up Cold War waste from sites in Washington, Idaho and elsewhere.

**This is not a good idea for a variety of reasons, but mainly that WIPP is not suitable to be a high-level waste dump. WIPP opened 16 years ago with my approval as Secretary of Energy, but only to accept low-level defense "transuranic waste," or TRU, which is mainly contaminated gloves, tools, rags, assorted machinery and sludge.**

New Mexico could change WIPP's accounting so only the volume of the waste, and not its containers, counts against the cap. But WIPP's Environmental Impact Statement is based on its radioactive inventory. Even after 1,000 years, the added MOX plutonium would still cause WIPP to exceed its EIS curie basis by 430 percent.

Former Governor and Secretary of the DOE, Bill Richardson, January 2016

<http://www.lcsun-news.com/story/opinion/columnists/2016/01/10/richardson-weapons-grade-plutonium-wipp-bad-policy/78526398/>

# **NNSA “Manage to Termination” Policy for the MOX Project**

# DOE Changes in Scoring Patterns of the MOX Project

AWARD FEE	09	10	11	12	13	14	15	16
MOX Rating	SES	SES	SES	E	E	N/A*	Very Good	E
NNSA Rating	ES	ES	ES	S	S	N/A*	S	S
% Pool Earned	81%	82%	81%	50.2%	57%	N/A*	49%	8.9%

SES = Substantially Exceeds Standards

ES = Exceeds Standards

E = Excellent (2012 Changed Ratings)

S = Satisfactory

VG = Very Good

SAT = Satisfactory

M = Marginal

UNSAT = Unsatisfactory

CPARS	09	10	11	12	13	14	15	16
NNSA Initial Rating	4	4	3	3	2	2	1	1
CO Recommend for new award	YES	YES	YES	50/50	50/50	YES	NO	NO
MOX Response	VG	VG	VG	SAT	SAT	SAT	SAT	SAT
Reviewing Official	N/A	N/A	No Change	No Change	No Change	No Change	No Change	None**

\*No Award Fee Plan approved/implemented by NNSA

\*\*No comments from NNSA Reviewing Official (due end of FEB 17)

Note: No Award Fee on contract for FY17 and Beyond

The contractor received excellent scores prior to the implementation of the NNSA policy of "Manage to Termination". As the contractor has resisted the project moving to termination and demanded that NNSA follow the law, there is a correlation with their falling fee and rating scores.