

Data Request for CMRR SEIS: RLUOB Operations Data

	Data Requested	In order to evaluate the impacts of RLUOB operating in conjunction with a variety of facilities providing nuclear facility operations (Modified CMRR-NF, CMR Building, Upgraded CMR Building), it is necessary to characterize RLUOB operations by themselves. Operations data for operating RLUOB
1.0	General	
1.1	What is the total material at risk in the RLUOB?	8.4g Pu-239 equivalent. Note that this limit may be raised to 38g Pu-239 equivalent when DOE-STD-1027 is revised.
2.0	Site Infrastructure	
2.1	Projected RLUOB utility usage	
	Electricity (MW-hours/yr)	58,536 MW-hours per year
	Peak electrical load (MW)	11.2 MW
	Water (million gallons/yr)	7.1 mgy
	Natural gas (million cubic feet/yr)	38 million ft ³ /yr
3.0	Air Quality and Noise	
3.1	Projected non-rad emissions or emission sources (e.g., backup generators)	Nitrogen Oxides (NOx): 18 tons/yr Carbon Monoxide (CO): 25 tons/yr Volatile Organic Compounds (VOCs): 4 tons/yr Sulfur Oxides (SOx): 12 tons/yr Particulate Matter (PM): 3 tons/yr
4.0	Socioeconomics	
4.1	Would the estimated 396 staff at RLUOB remain the same regardless of the nuclear facility it complements (Modified CMRR-NF, CMR Building, Upgraded CMR Building)?	Yes
5.0	Surface Water and Groundwater	
5.1	Identify any direct discharges of water to the environment.	None
6.0	Human Health	
6.1	Are there any radiation workers who would only work in the RLUOB, if so, how many full-time equivalent radiation workers?	135
6.2	What would be the average dose expected for radiation workers working exclusively in the RLUOB?	20 mrem per year

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7.0	Waste Management	
7.1	Identify the annual quantities of waste associated with the level of operations anticipated for the upgraded facility (specify units):	
	LLW ¹	128 cy
	MLLW ¹	2.3 cy
	TRU waste ¹	0
	Hazardous waste ^{1, 2}	1 cy
	Solid waste ³	61,667 kg
	Liquid LLW	95,800 gl (Based on Balkey 20110
	Liquid TRU waste	0
	Sanitary waste ⁴	2,485,000 gl

¹ Actuals based on FY 2010 numbers derived from CMR operations

² Includes RCRA and NM-regulated waste (i.e., universal)

³ Based on per capita trash generation for laboratory in 2008 applied to RLUOB/NF projected populations

⁴ Includes all personnel w/ visitors and trainers at 50 % occupancy.