

**From:** Mike Billone <billone@anl.gov>  
**To:** 'Harold Scott' <HHS@nrc.gov>  
**Date:** 2/8/06 3:59PM  
**Subject:** RE: Zry, M5, ZIRLO

*res*

Dear Harold,

We have very limited supply of 17x17 Zry-4 (Westinghouse) and 17x17 ZIRLO (Westinghouse). We have a lot of 17x17 M5 (F-ANP), 15x15 Zry-4 (rough, F-ANP), 15x15 Zry-4 (belt-polished, F-ANP) and 10x10 Zry-2 (GNF), as well as 9x9 Zry-2.

We really need a new supply of 17x17 Zry-4 and 17x17 ZIRLO, but Dave Colburn will not give ANL any more tubing until he gets a clear picture of what we intend to do with the tubing beyond our original scope of work and the NRC-Westinghouse MOU. The "bruised" ZIRLO will be a problem when we do the lower-temperature breakaway oxidation tests. We would also like to test prehydrided ZIRLO. I may need Ralph's and Rosa's help on this.

I think you should base your budget more on high-burnup cladding available and anticipated. Currently, we have equal amounts of high-burnup ZIRLO and M5 -- 32-cm of each type -- for LOCA testing. We hope NRC will arrange for 64-cm of high-burnup ZIRLO to be shipped from Studsvik to ANL for SNF work. I will know by the end of the day if we are allowed to receive the rod segments from the 4 high-burnup M5 rods. If the answer is "yes", we will receive those rods whether or not we get the EPRI-Framatome project. That would certainly give us enough high-burnup M5 to complete the oxidation/quench/ring-compression tests and the LOCA Integral Tests if we are allowed to do them (FY08).

In any case, if we have some flexibility with N6281 to cover setup costs, you should keep an even balance between M5 and ZIRLO in the short term.

Mike

-----Original Message-----

**From:** Harold Scott [mailto:HHS@nrc.gov]  
**Sent:** Tuesday, February 07, 2006 9:30 PM  
**To:** billone@anl.gov  
**Cc:** Ralph Meyer  
**Subject:** Zry, M5, ZIRLO

maybe I should reallocate the funding between the 3 JCNs based on the feet of cladding of each type you have available for testing.

Are you expecting to get any more fresh cladding from anyone ?

e.g., to replenish the 'bruised' cladding

One option:

\$1.2 mil for next 5 months, and then \$1.1 mil for Aug - Nov

SFPO N6280	\$350K	\$300K
N6281	\$650K	master JCN

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N6282	zirlo	\$100K	\$300K
N6283	M5	\$100K	\$500K

another option:

if in April we find the M5 from INL wont be tested at ANL in FY06 we move \$200K from N6283 to N6281.

I cant move more than \$500K between JCNs.  
N6281 currently has \$400K.

CC: 'Ralph Meyer' <ROM@nrc.gov>