

MHD Coating, Corrosion Research Needs

- MHD Coatings
 - discontinue work on CaO
 - continue coating development work at ORNL
 - put out a call for innovative ideas, self-healing, repairable and applied coatings
 - hold off on a Li loop until we have a more convincing coating: cost comparison to more versatile loop which can handle Pb-Li & Li, addition of a magnetic field
 - evaluate whether there are there forces that cause flaw growth?
 - Establish AlN compatibility with V-Cr-Ti?
 - Determine the effect of the conversion of Y_2O_3 to $LiYO_2$

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- Corrosion/RAFMs
 - Evaluate stability of NCS in high temperature He+O₂, i.e. > 700 C.
- Corrosion/SiC/SiC
 - Evaluate effect of small concentrations of H₂O on oxidation of SiC/SiC.
 - Determine stability of SiC/SiC in Pb-Li at T>800 C.
 - Determine need for coating for SiC/SiC in Pb-Li: leak rate
 - Measure crack growth rates of newer SiC/SiC in He+O₂