

## MFFFNPEm Resource

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**From:** Tiktinsky, David  
**Sent:** Thursday, June 10, 2010 8:52 AM  
**To:** Gwyn, Dealis W.; dayates@moxproject.com  
**Cc:** Morrissey, Kevin; MFFFHearingFile Resource  
**Subject:** FW: MOX structural review  
**Attachments:** MOX\_2010.06.08\_13.06.00.pdf

Information on seismic information from USGS. Seismic response is a topic for consideration for ACRS. I will call you later and discuss the context of this information.

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**From:** Cao, Tianqing  
**Sent:** Thursday, June 10, 2010 8:50 AM  
**To:** Tiktinsky, David  
**Subject:** RE: MOX structural review

The attached is the figure I just gave to you, which shows the rock ground motion of USGS 2008 hazard model at MOX .

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**From:** Tiktinsky, David  
**Sent:** Wednesday, June 02, 2010 2:39 PM  
**To:** Cao, Tianqing  
**Subject:** MOX structural review

The in-office review documentation is in ML081000195 and ML072620448. I have also enclosed the draft SER section. If you need anything else, please let me know. All documents are OUO

**Hearing Identifier:** MixedOxideFuelFabricationFacility\_NonPublic  
**Email Number:** 1772

**Mail Envelope Properties** (0A64B42AAA8FD4418CE1EB5240A6FED11914511365)

**Subject:** FW: MOX structural review  
**Sent Date:** 6/10/2010 8:52:19 AM  
**Received Date:** 6/10/2010 8:52:20 AM  
**From:** Tiktinsky, David

**Created By:** David.Tiktinsky@nrc.gov

**Recipients:**

"Morrissey, Kevin" <Kevin.Morrissey@nrc.gov>  
Tracking Status: None  
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Tracking Status: None

**Post Office:** HQCLSTR02.nrc.gov

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**Options**

**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
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**Recipients Received:**

## PSH Deaggregation on NEHRP BC rock MOX 81.728° W, 33.285 N.

Peak Horiz. Ground Accel.  $\geq 0.1660$  g

Ann. Exceedance Rate .403E-03. Mean Return Time 2475 years

Mean (R,M, $\epsilon_0$ ) 92.6 km, 6.53, 0.45

Modal (R,M, $\epsilon_0$ ) = 160.9 km, 7.37, 0.91 (from peak R,M bin)

Modal (R,M, $\epsilon^*$ ) = 160.9 km, 7.36, 1 to 2 sigma (from peak R,M, $\epsilon$  bin)

Binning: DeltaR 25. km, deltaM=0.2, Delta $\epsilon$ =1.0

