May 10, 2013

Comanche Peak Nuclear Power Plant, Units 3 & 4 COL Application

Part 2

FSAR Revision 3

Update Tracking Report

Revision 1

(Update Tracking Report – file 2/4)

File 2/4 Figures 2.5.2-201 through 2.5.2-220

File 3/4 Figures 2.5.2-221 through 2.5.2-240

File 4/4 Figures 2.5.2-241 through 2.5.2-259 and new figures 2.5.2-260 through 2.5.20277



Figure 2.5.2-201 Regional SeismicityUpdated CEUS SSC Catalog between 1568 and December 31, 2011

CTS-01521

















Figure 2.5.2-209 Seismicity from Original Catalog (through 1984), Seismicity from New Catalog (1985-2006) and Regions Used for Test Areas Final Updated CEUS SSC Seismicity Catalog Observed Earthquake Counts up to December 31, 2011 Compared to the Modeled Earthquake Counts Using the Methodology and Logic Tree Branch Weights Specified in the CEUS SSC Report (Reference 2.5-486)

CTS-01521











Figure 2.5.2-212 New Madrid Seismic Zone SeismicityContribution to 2.5 Hz Rock Total Mean Hazard



Figure 2.5.2-213 Soismic Sources Used in Screening StudyContribution to 5 Hz Rock Total Mean Hazard



Figure 2.5.2-214 New Madrid Seismic Zone Source GeometryContribution to 10 Hz Rock Total Mean Hazard



Figure 2.5.2-215 PGA Rock Seismic Hazard Curves for all Sources and for New Madrid Faults AloneContribution to 25 Hz Rock Total Mean Hazard



Figure 2.5.2-216 25 Hz Rock Seismic Hazard Curves for all Sources and for New Madrid Faults-AloneContribution to 100 Hz(PGA) Rock Total Mean Hazard







Figure 2.5.2-218 <u>5 Hz Rock Seismic Hazard Curves for all Sources and for New Madrid Faults Alone 1 Hz Rock</u> <u>Total Mean and Median Hazard and Select Fractiles</u>







