

CLIENT: PFS LLC  
CLIENT NO.: PFS-01  
SNC NO.: PFS01-10.02.05  
REVISION NO.: 0

**DESIGN CALCULATION**

**FOR INFORMATION ONLY**

**TranStor™ Storage Cask  
Seismic Stability Analysis for PFS Site**

**NONPROPRIETARY**

PREPARED BY

SIERRA NUCLEAR CORPORATION

APPROVED: *William McCaughey*  
PROJECT MANAGER

DATE: 7/24/97

APPROVED: *[Signature]*  
ENGINEERING MANAGER

DATE: 7/24/97



The attached calculation is based on the results of Ref. 1 and the conservative cask dimensions (diameter and c.g. location) of Ref. 2. The cask weight is not critical for this analysis since both tipover and restoring forces are proportional to weight). Therefore, a representative weight is used.

The analysis was performed based on the preliminary results of Ref. 1. The final Reference 1 employs slightly different soil properties. However, the output time history of Ref. 1 was compared to that used herein and the difference was found to be insignificant (< 1%). Therefore, the results of this analysis are still valid.

**REFERENCES**

1. Calculation PFS01-10.02.04, Soil-Structure Interaction Analysis for Evaluation of TranStor™ Storage Cask Seismic Stability, Rev. 0.
2. Calculation TSL01-10.06.01, TranStor™ Storage System Weight and CG, Rev. 1.

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Analysis for PFS Site						of
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