RB/FB NASTRAN CUT MODEL

1. Configuration of Model

   Based on the discussion in NRC Audit, we propose the cut model as shown in Figure 1. The model includes soil (spring elements), basemat, and wall/column/RCCV liner up to EL -8700.

2. Data to Be Provided

   The following data will be sent to NRC.

   a. NASTRAN model data (including the information on material properties and thickness and of shell elements) for both full and truncated models
   b. Loads and displacements at the top boundary of the model

      Analyses for the following three loading conditions are performed using the RB/FB global model, and loads and displacements at the corresponding nodes will be evaluated.

      1. Dead Load
      2. Horizontal Seismic Load – (for N-S & E-W, Total V, M & Torsion)
      3. Drywell Pressure (1 MPa)
      4. Combination of 1, 2 and 3.
   c. NASTRAN analysis results (Section forces and moments in shell elements) from the truncated model
   d. Sketch of element numbers and node numbers for the mat and walls.
   e. Concrete outline drawing for several ~~elements~~ locations showing thickness and lengths of all walls.

   The data will be prepared and issued to NRC on August 7, 2006.

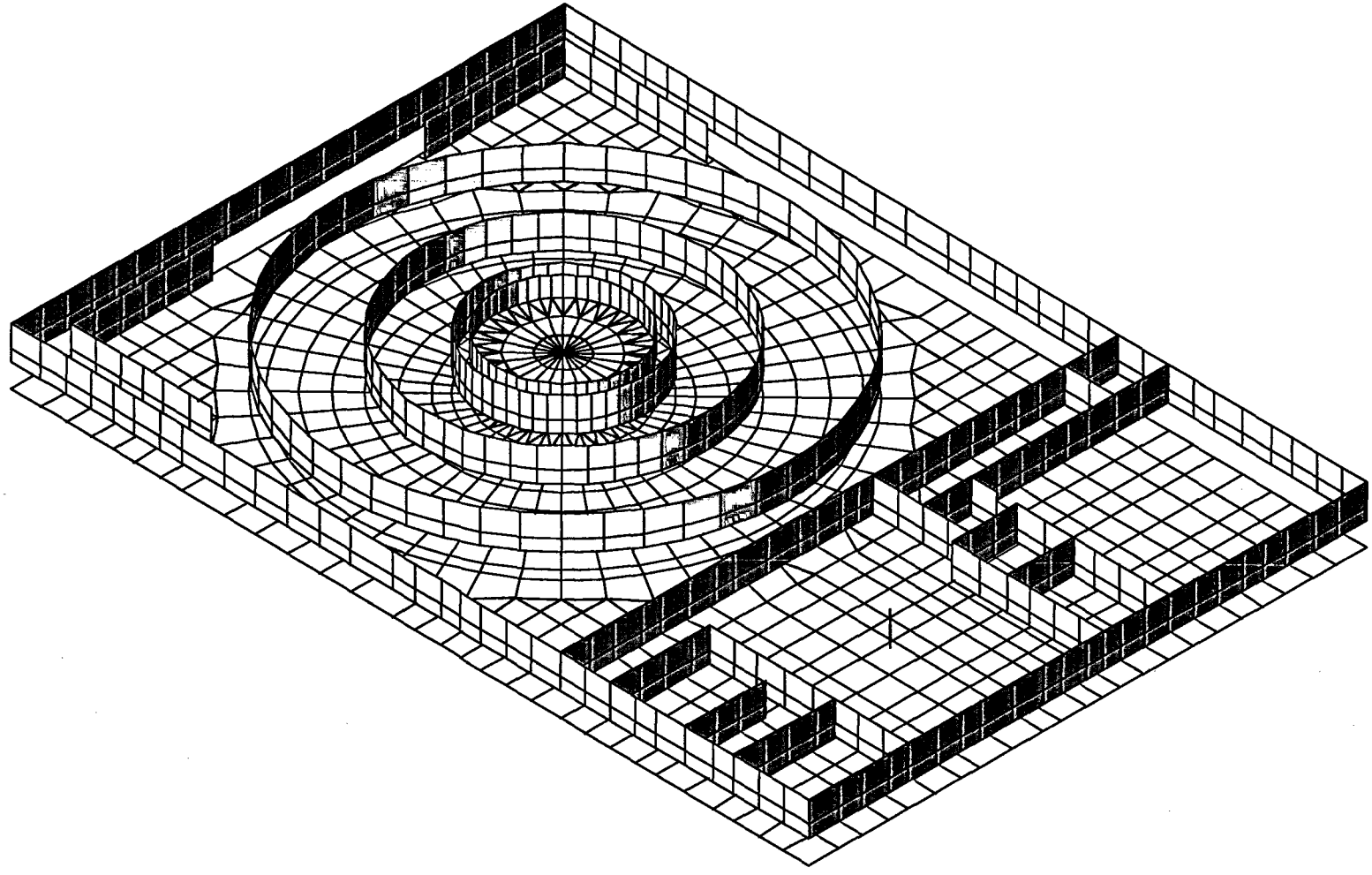

Figure 1 NASTRAN Cut Model