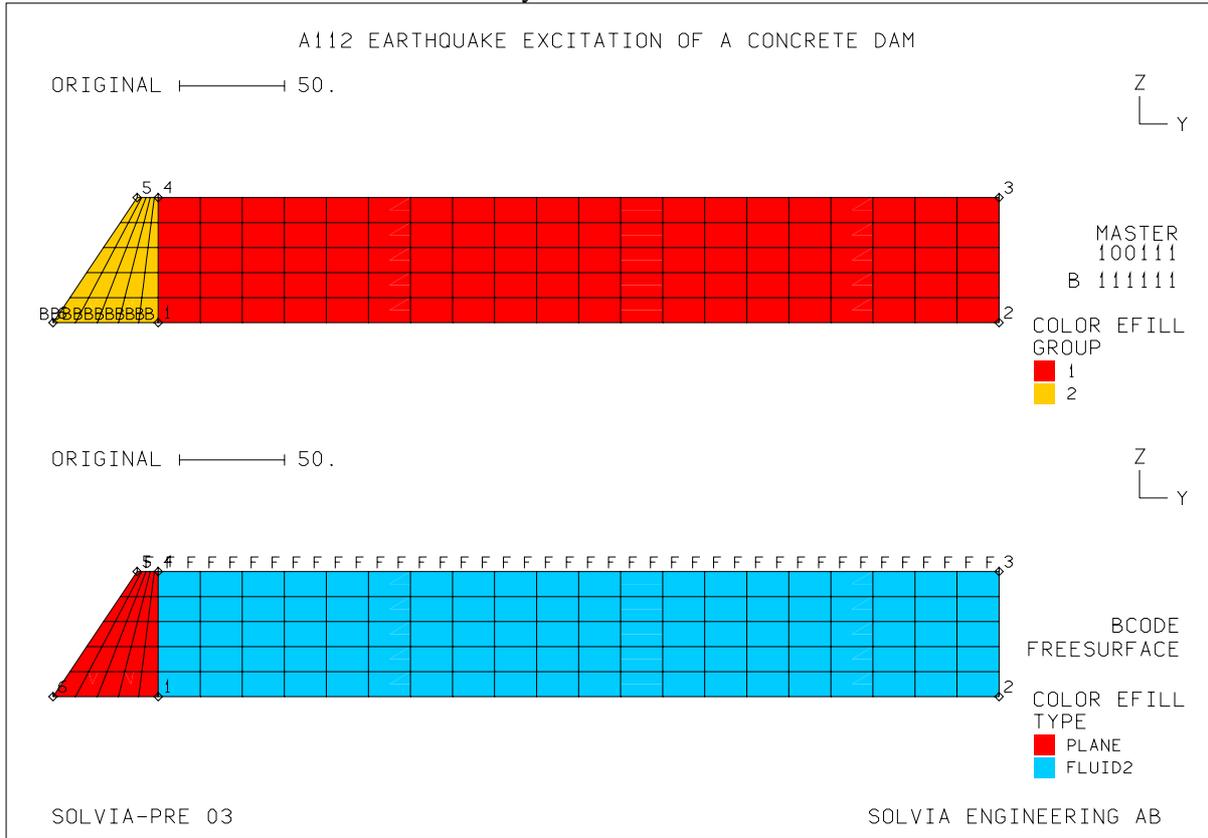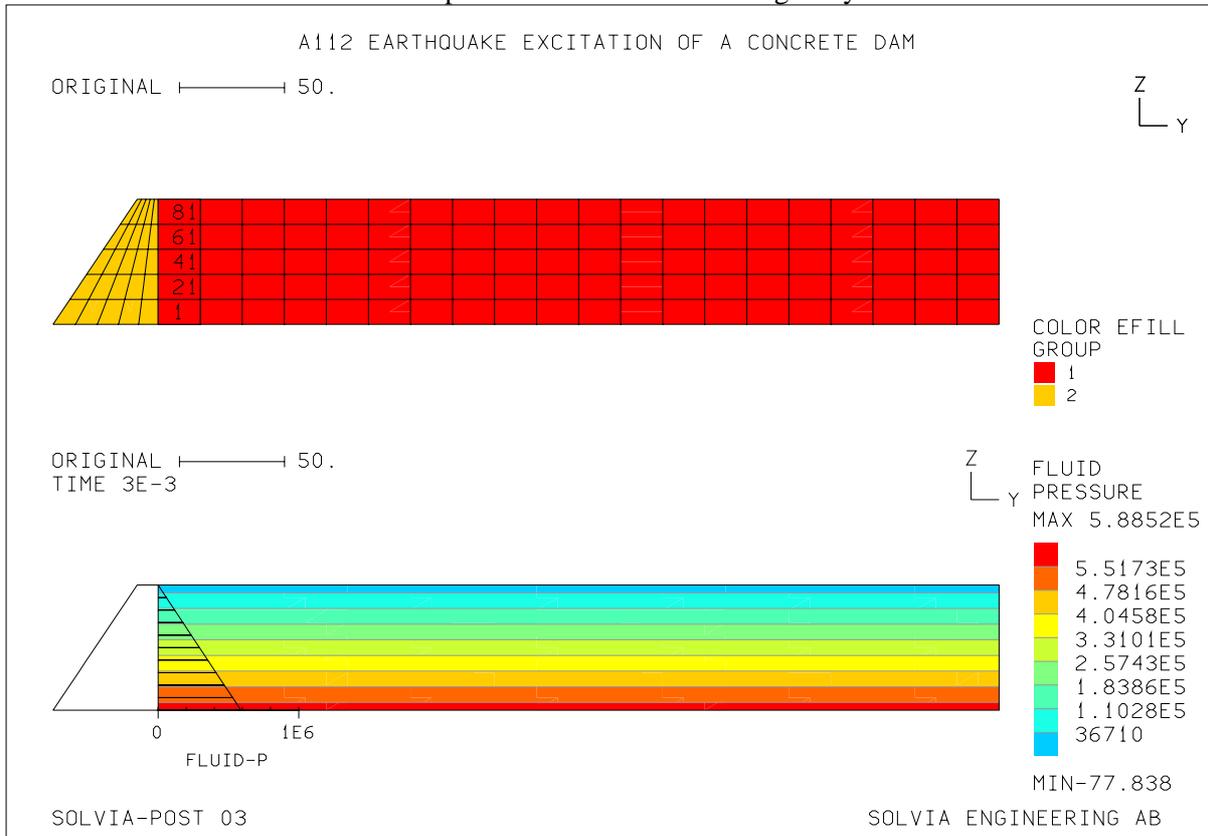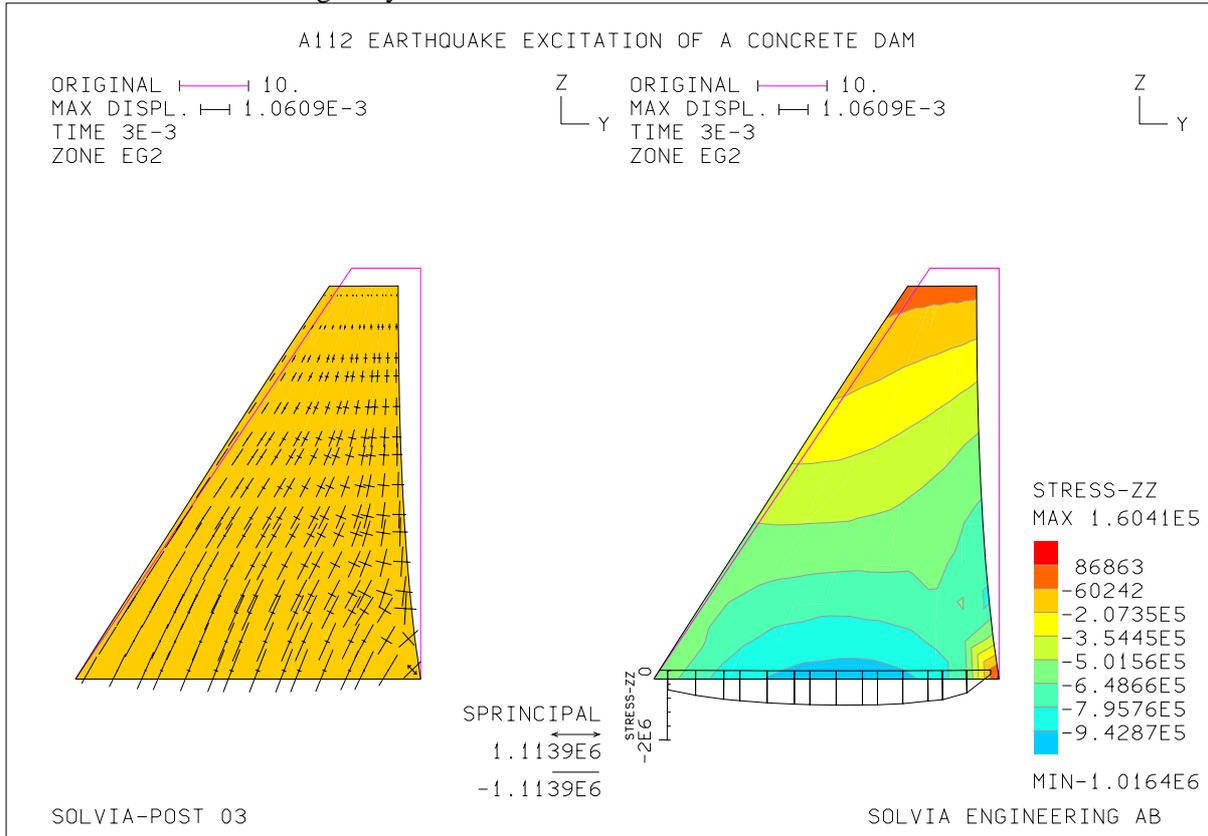Model with user defined nodes and boundary conditions.
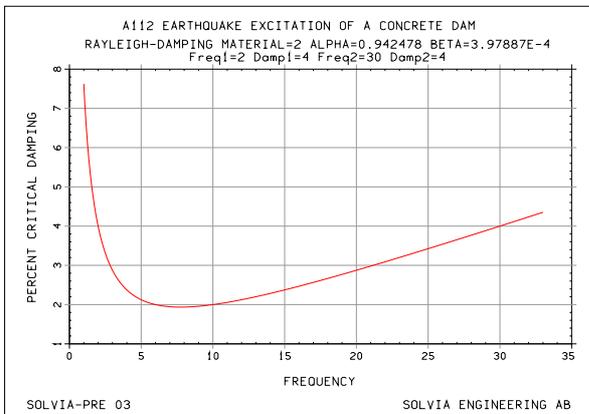

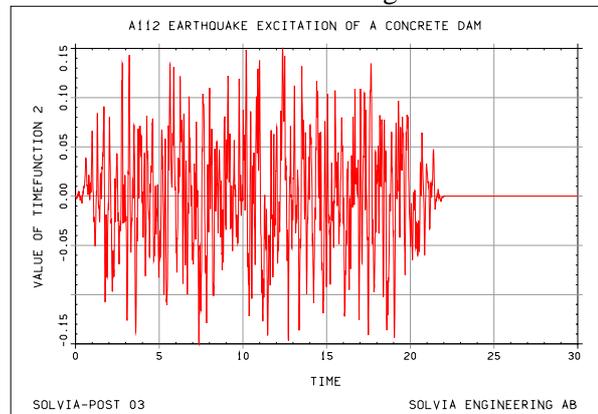Element numbers of zone FACE and pressure distribution due to gravity load.

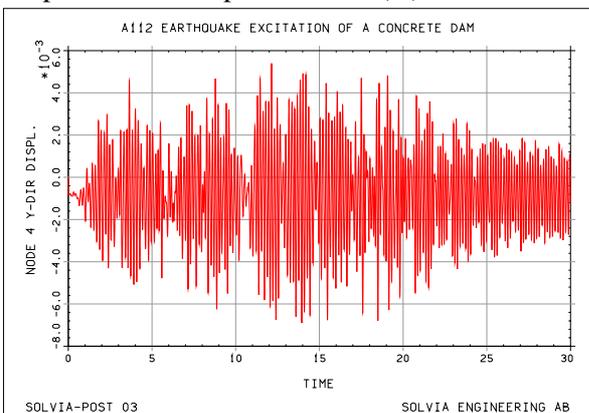Stresses in the dam due to gravity load.

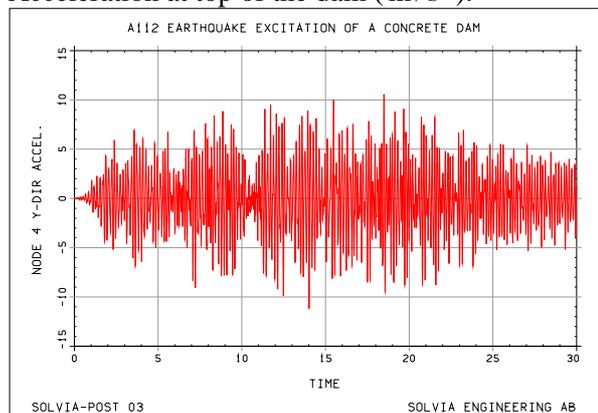Equivalent modal damping by Rayleigh damping.
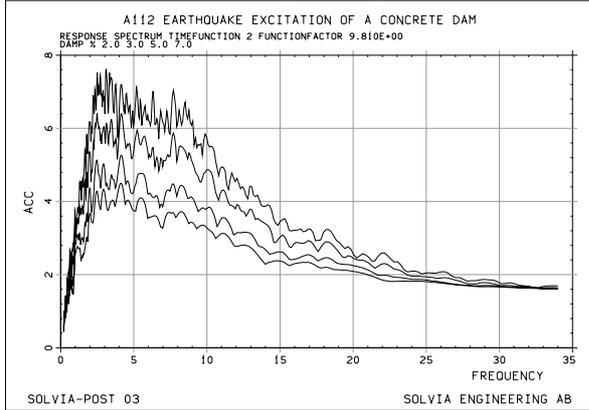
Ground acceleration in units of g=9.81 m/s^2 .
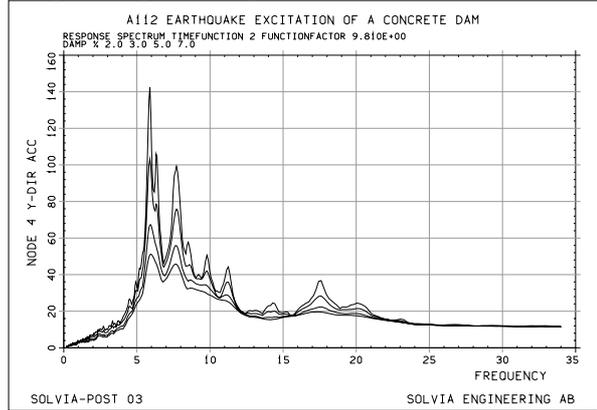

Displacement at top of the dam (m).

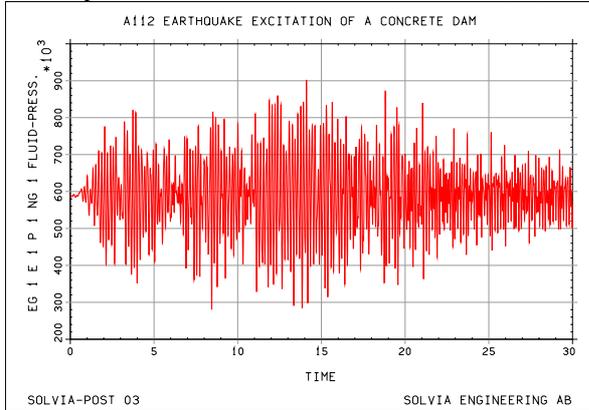Acceleration at top of the dam (m/s^2).

Ground acceleration response spectra (m/s^2).
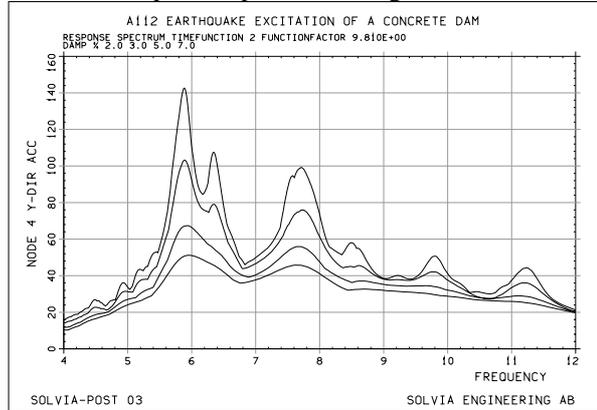

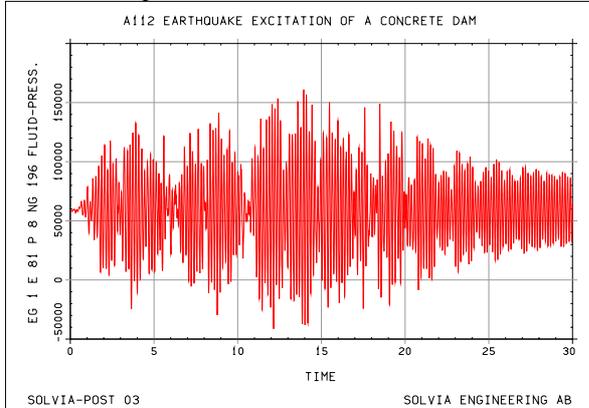Response spectra, top of dam, node 4, (m/s^2).

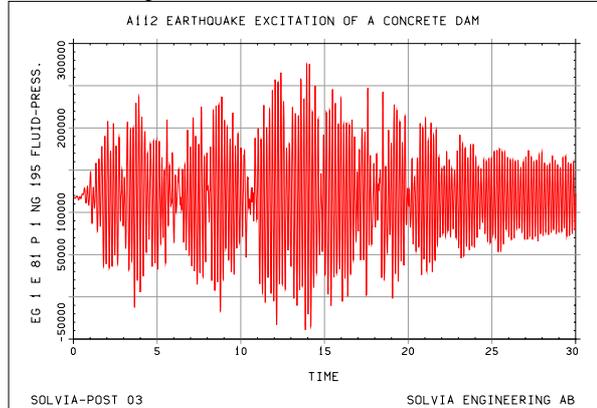Water pressure at bottom of dam, node 1, (Pa).

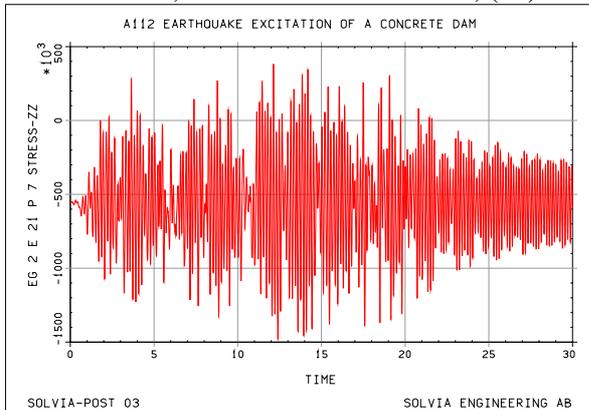Detail of response spectra in range 4 to 12 Hz.

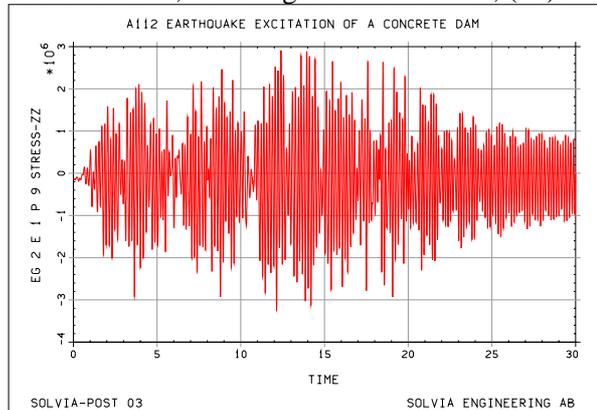Dam water pressure 6 m below surface, (Pa).

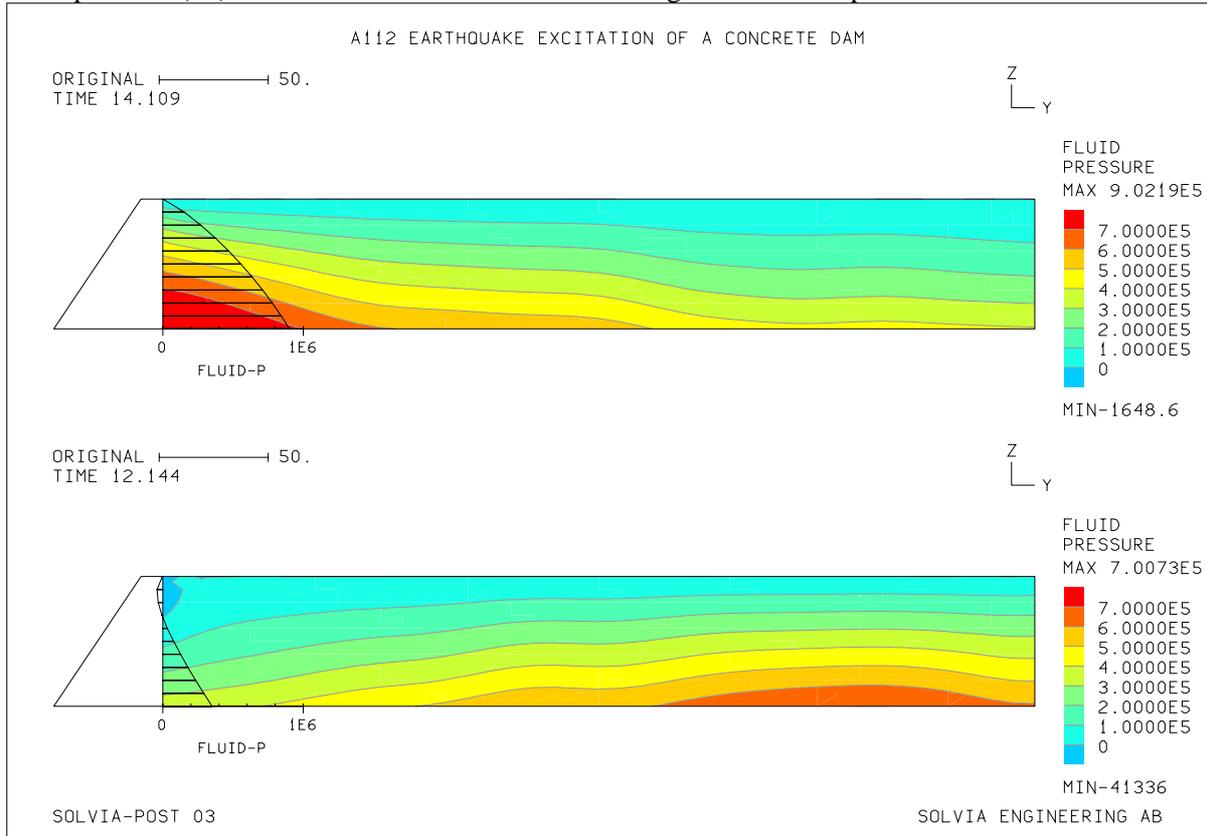Dam water pressure 12 m below surface, (Pa).

Vertical stress, lower left corner of dam, (Pa).

Vertical stress, lower right corner of dam, (Pa).

Fluid pressure (Pa) at times 14.109 and 12.144 s showing max and min pressure at dam face.

Principal and vertical stresses (Pa) in dam at time 12.402 s, time of max lifting stress at dam bottom.