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April 26, 1982



Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Byron Station Units 1 and 2
Braidwood Station Units 1 and 2
Reactor Vessel Forces and Moments
NRC Docket Nos. 50-454, 50-455,
50-456 and 50-457

Dear Mr. Denton:

This is to provide information regarding forces and moments which would act on a Byron/Braidwood reactor vessel during a design basis loss of coolant accident. Review of this information should close Outstanding Item 11 of the Byron Safety Evaluation Report.

Enclosed are three figures containing the reactor vessel forces and moments which are due to pressurization of the reactor cavity in a design basis cold leg break. The nodal representation used in this analysis is the same as that documented in the FSAR for other pressurization calculations.

Please address questions regarding these figures to this office.

One signed original and fifteen copies of this letter are provided for your use.

Very truly yours,

T. R. Tramm
Nuclear Licensing Administrator

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Enclosures: Figure 1 - RPV Forces at Elevation 393'-0"
in the X and Y directions vs. time.

Figure 2 - RPV Forces at Elevation 393'-0"
in the Z direction vs. time.

Figure 3 - RPV Moments about Elevation 393'-0"
in the X and Y directions vs. time.

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cc: L. Kripps - Energy Incorporated

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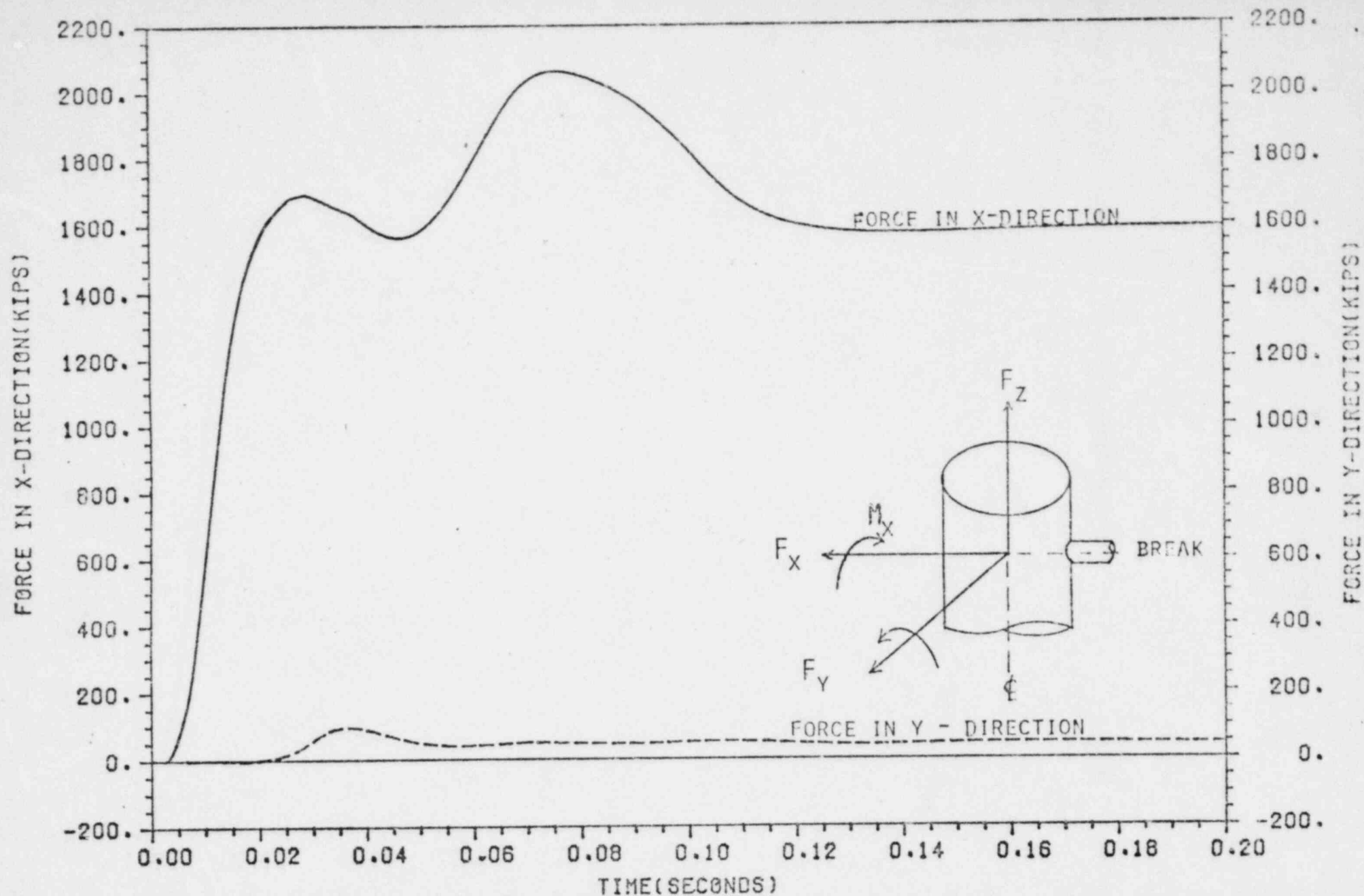


FIGURE 1 - RPV FORCES AT ELEVATION 393'-0"
IN THE X AND Y DIRECTIONS VS. TIME

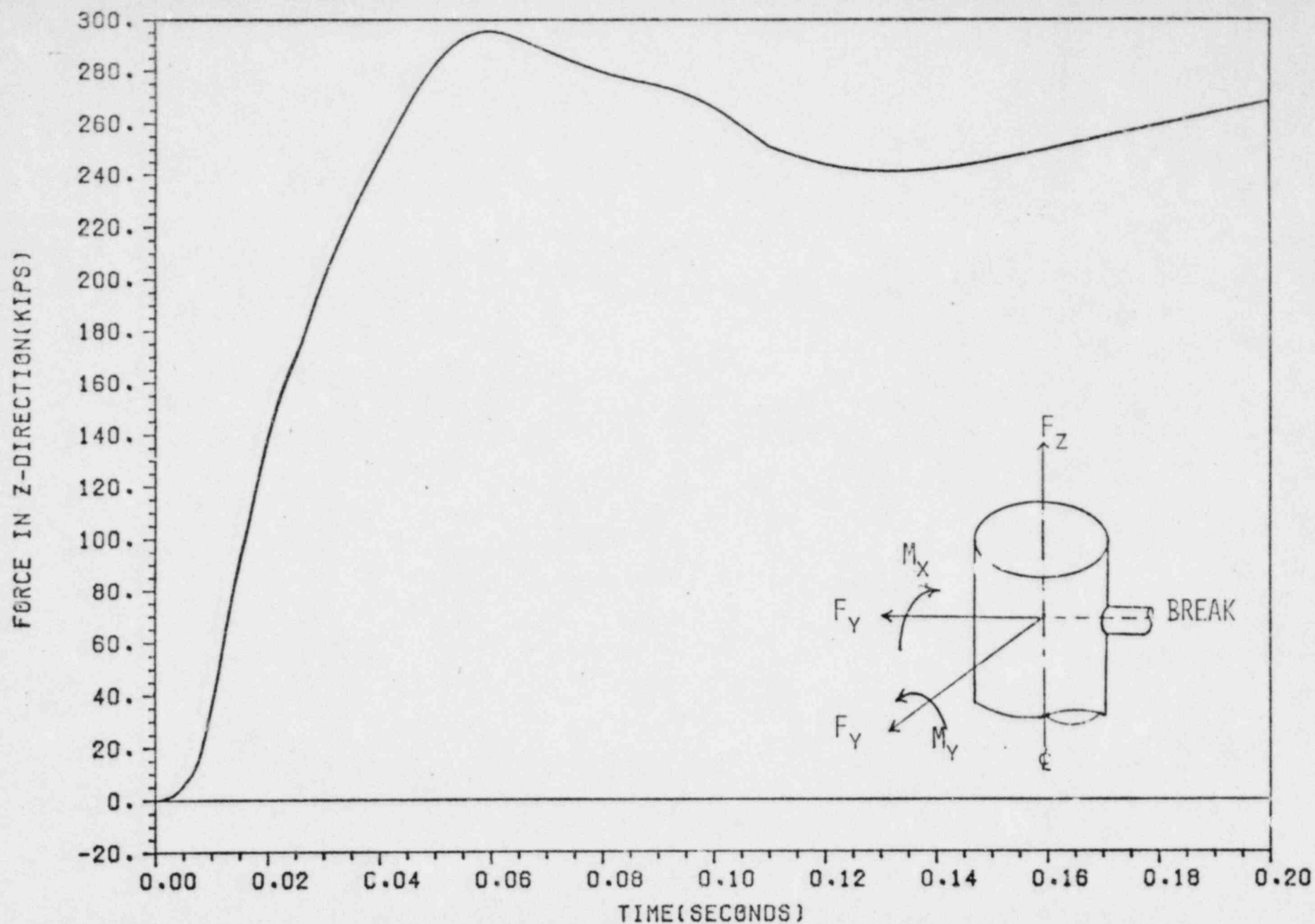


FIGURE 2 - RPV FORCES AT ELEVATION 393'-0"
IN THE Z - DIRECTION VS. TIME

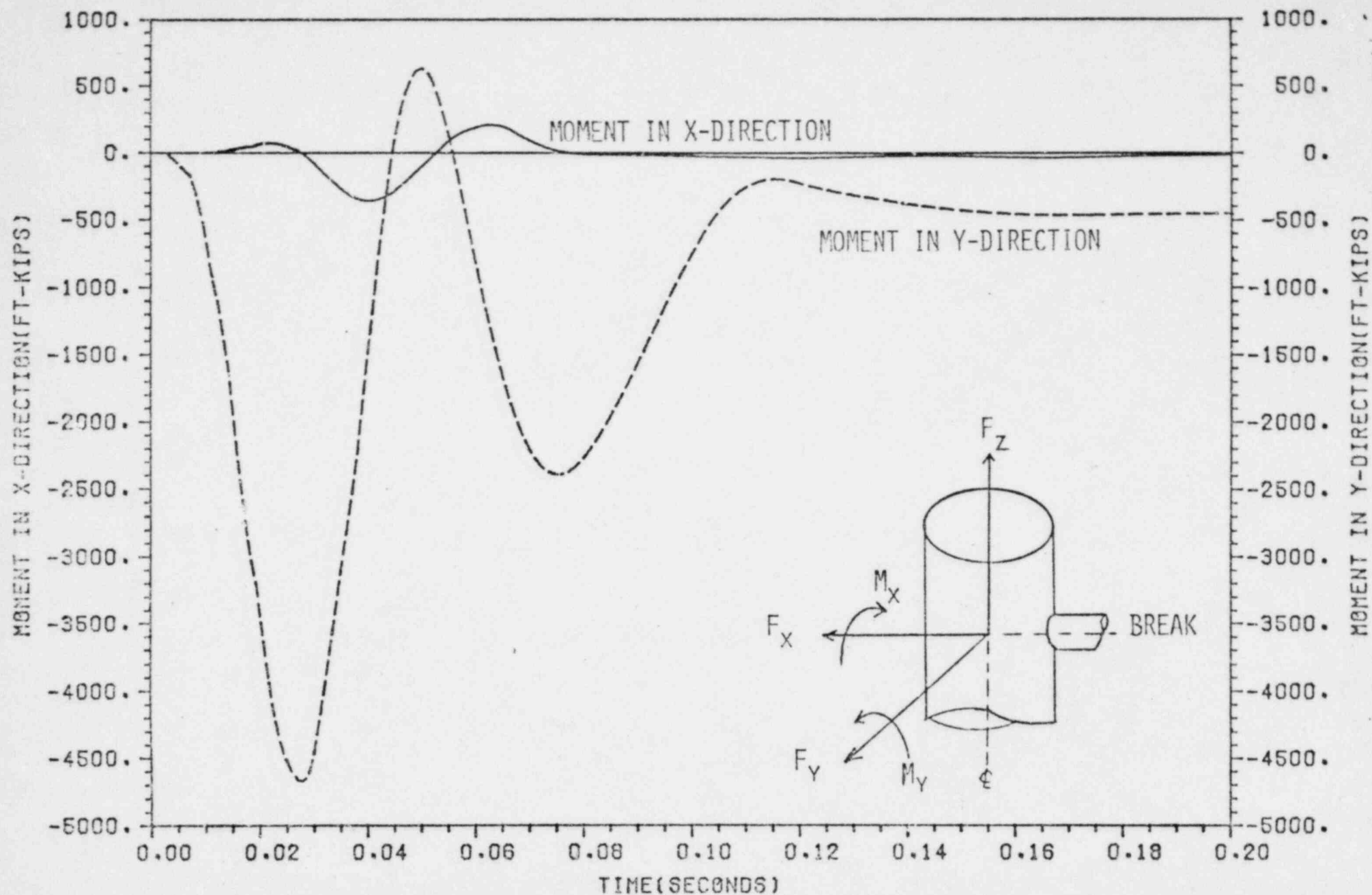


FIGURE 3 - RPV MOMENTS ABOUT ELEVATION 393'-0"
IN THE X AND Y DIRECTIONS VS. TIME