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SCHWENCER,A. Operating Reactors Branch 2

SUBJECT: Forwards results of recomputed condensation oscillation load analysis & comparisons of chugging & load in terms of bldg acceleration response spectra for three representative critical locations, in response to NRc 820302 request.

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Docket No. 50-397

April 1, 1982
G02-82-351

Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Schwencer:

Subject: NUCLEAR PROJECT NO. 2
CONDENSATION OSCILLATION LOAD

Reference: G02-81-552, dated December 24, 1981

The Reference letter transmitted a report comparing Condensation Oscillation and Chugging Loads, which concluded that the CO load was not a governing load for the WNP-2 plant. On March 2, 1982, during a telephone conference call, the NRC requested information concerning structural response to the CO load in the 0-10 Hz frequency range. Accordingly, Burns and Roe recomputed structural responses at representative locations in the WNP-2 containment, using the Mark II generic CO load specification with frequencies higher than 10 Hz filtered out. These responses were then compared with structural responses due to chugging. The attached figures show the results of this analysis and comparison of chugging and CO load in terms of building acceleration response spectra (at 1% damping) for three representative critical locations: the stabilizer truss (node 21), the containment vessel at drywell floor elevation (node 76), and the containment vessel at the point of maximum response in the wetwell (node 132).

Bool
1/1

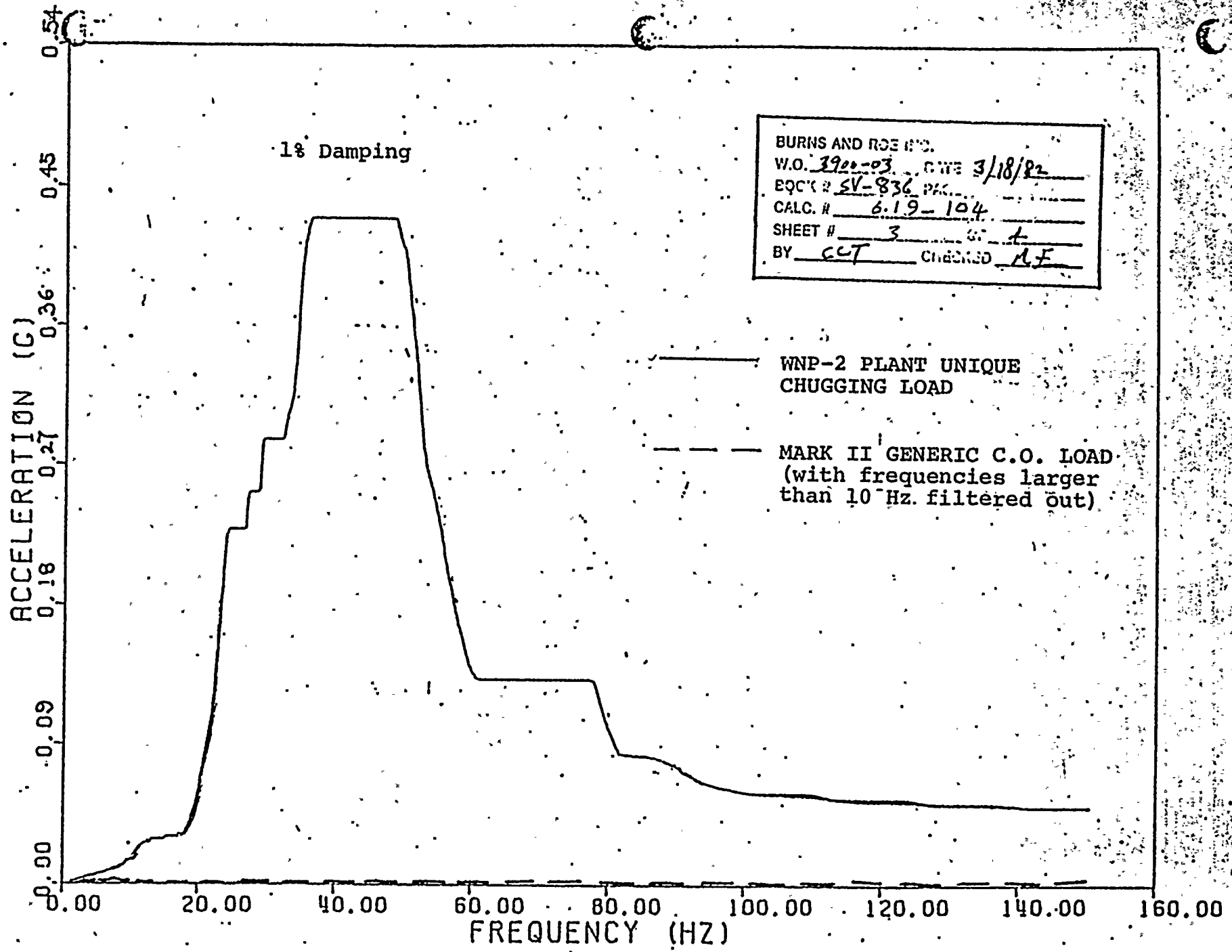
Examination of the results plotted in Figures 1, 2, and 3, clearly indicates that responses to the WNP-2 plant unique chugging load are larger, and by a significant margin, than the responses to the Mark II generic CO load with frequencies higher than 10 Hz filtered out.

GD Bouchey

G. D. Bouchey
Deputy Director, Safety and Security

EAF:kjf
Attachments: Figures 1, 2, and 3

cc: R. Auluck - NRC
WS Chin - BPA
R. Feil - NRC Site
F. Eltawila - NRC

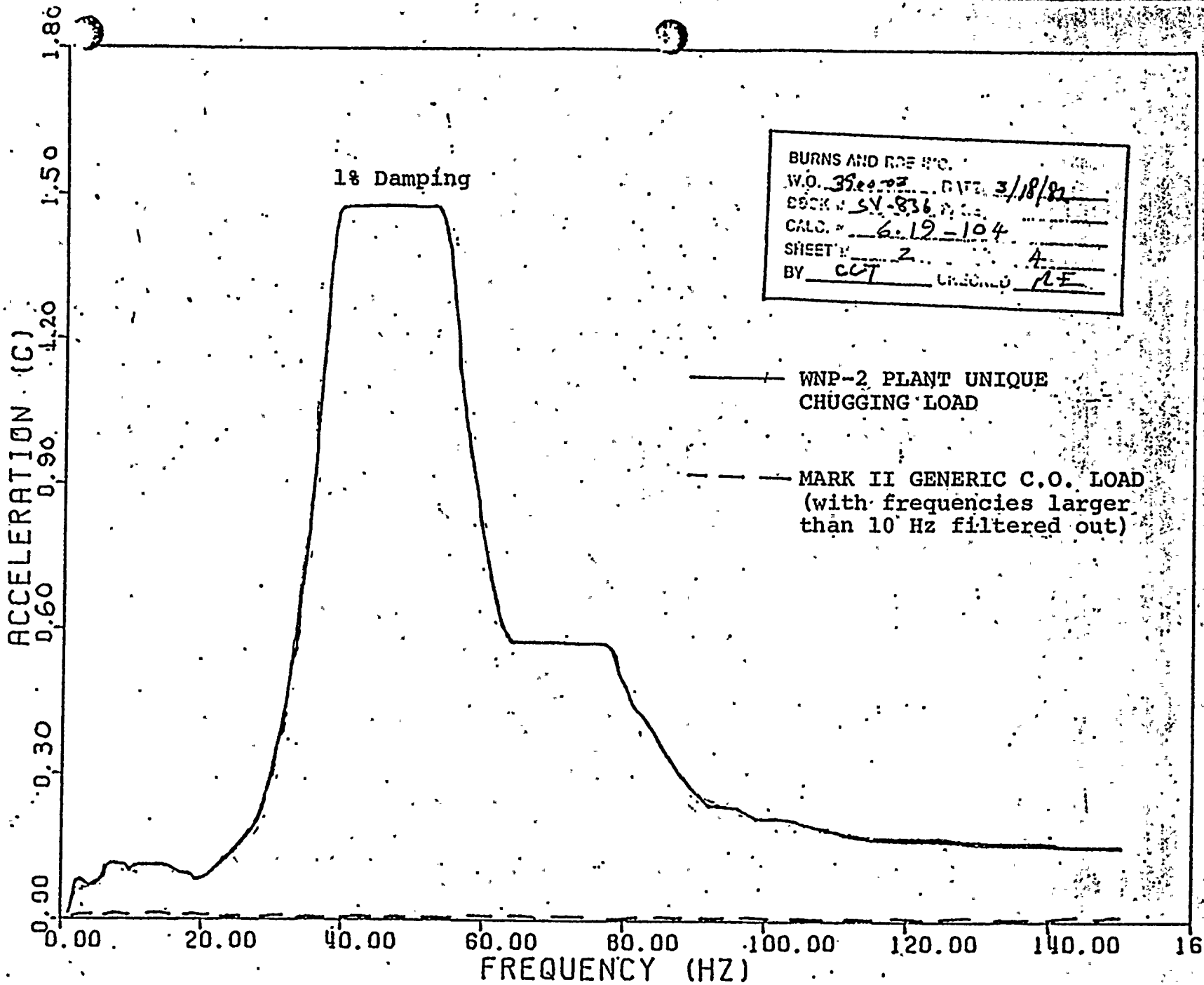


WPPSS ≡2 - NEARLY SYMMETRIC CHUGGING - (BASED ON 4TCO DATA)

MASS NO: 21 FT. HORIZ. TRANSLATION

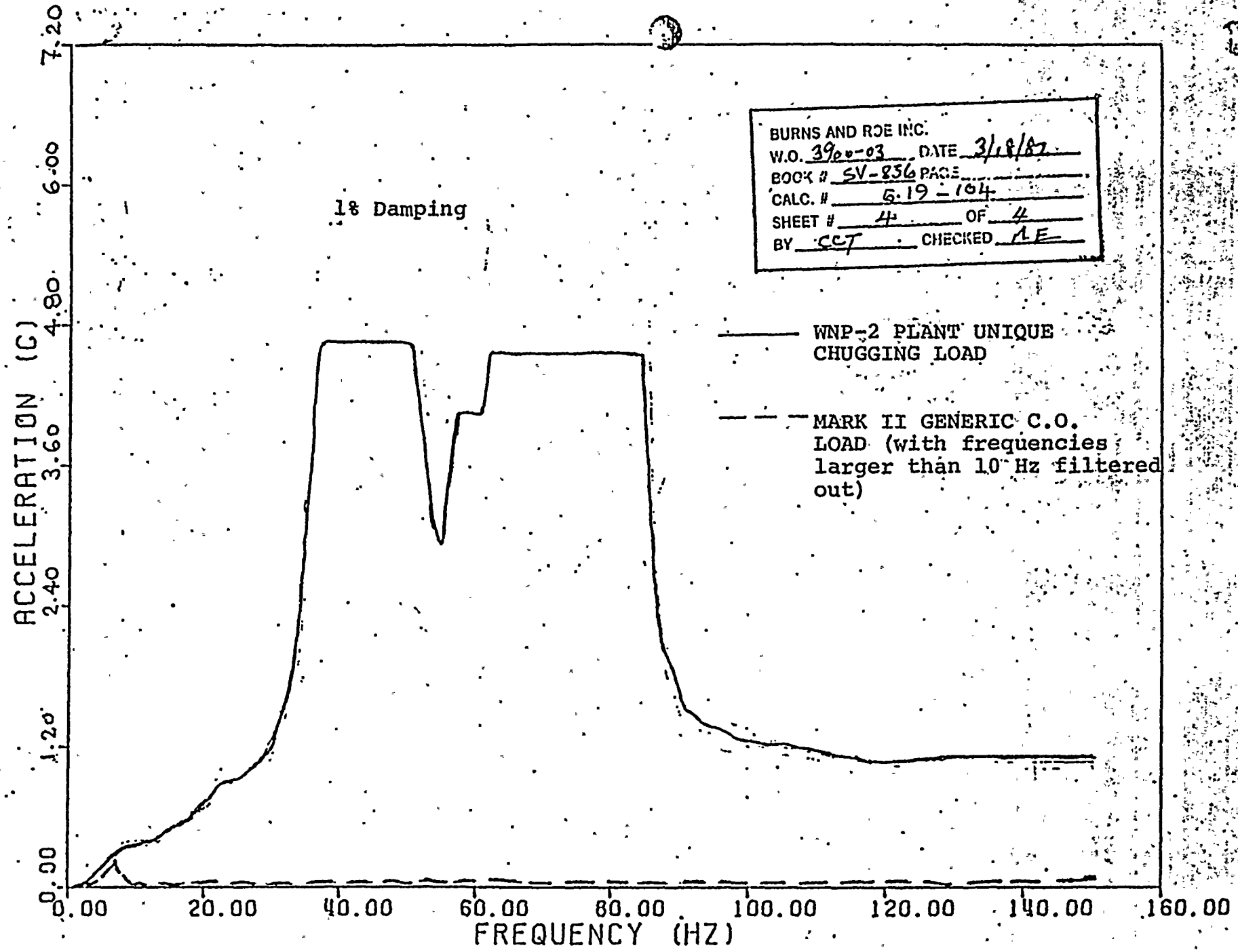
CONTAINMENT VESSEL (DRYWELL)

FIGURE 1



WPPSS #2 - NEARLY SYMMETRIC CHUGGING - (BASED ON 4TC0 DATA)
MASS NO. 76 FT. VERT. TRANSLATION
CONTAINMENT VESSEL (DRYWELL)

FIGURE 2



WPPSS ≡2 - NEARLY SYMMETRIC CHUGGING - (BASED ON 4TCO DATA)
MASS NO. 132 . . . FT. HORIZ. TRANSLATION
CONTAINMENT VESSEL (WETWELL)

FIGURE 3