



Westinghouse
Electric Corporation

Energy Systems

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NTD-NRC-94-4252
DCP/NRC0176
Docket No.: STN-52-003

August 2, 1994

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

ATTENTION: R. W. BORCHARDT
SUBJECT: SASSI ANALYSIS TRANSMITTAL

Dear Mr. Borchardt:

In the Westinghouse/NRC/Bechtel meeting on May 31 and June 1 & 2, 1994, the NRC requested additional 2D SASSI analysis to justify the element size used to model the soil in the 3D SASSI soft-to-medium stiff soil analysis. Preliminary conclusions on the comparison were provided by telephone on June 13th and were also discussed at the subsequent meeting in San Francisco in July. Attached are results of the analysis using the following two 2D SASSI AP600 models:

- o B2-Y 2D SASSI model with the original soil element sizes (fine mesh).
- o B2-Y 2D SASSI model with the soil element sizes modified to be the same as in the 3D SASSI model (coarse mesh).

In both models, the water table was at grade. A cut-off frequency of 17 cps was used for the coarse mesh. The basement and excavated soil models for both the coarse and fine mesh are shown in the attachment.

The attached response spectra, comparing responses for the two models at a number of locations, show that the differences are small. Therefore, it can be concluded that the soil element size used to model the soil in the 3D SASSI analysis is acceptable.

If you have any questions, please contact Don A. Lindgren at (412) 374-4856.

Nicholas J. Liparulo, Manager
Nuclear Safety Regulatory and Licensing Activities

/nja
Attachment

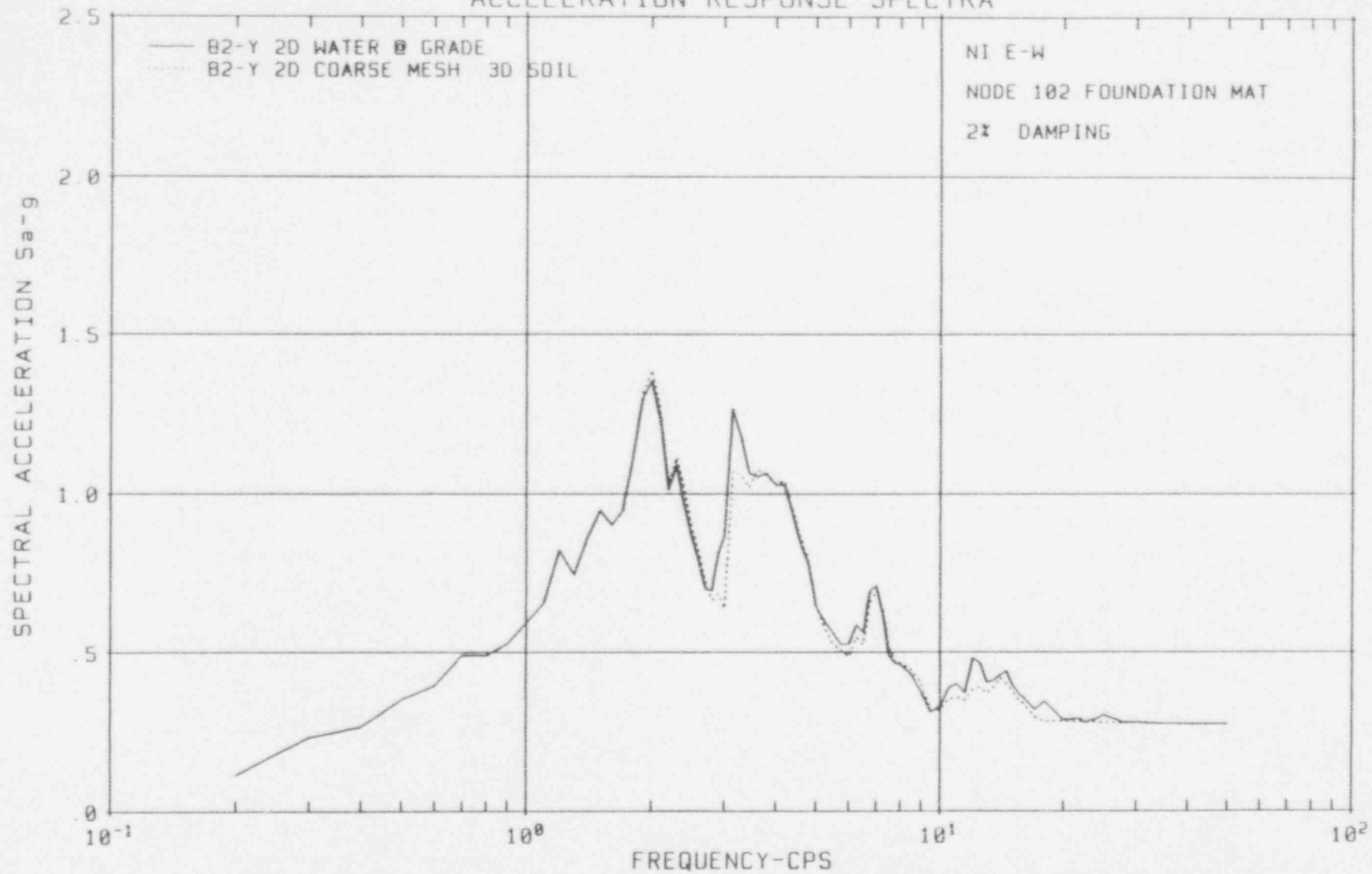
cc: B. A. McIntyre Westinghouse

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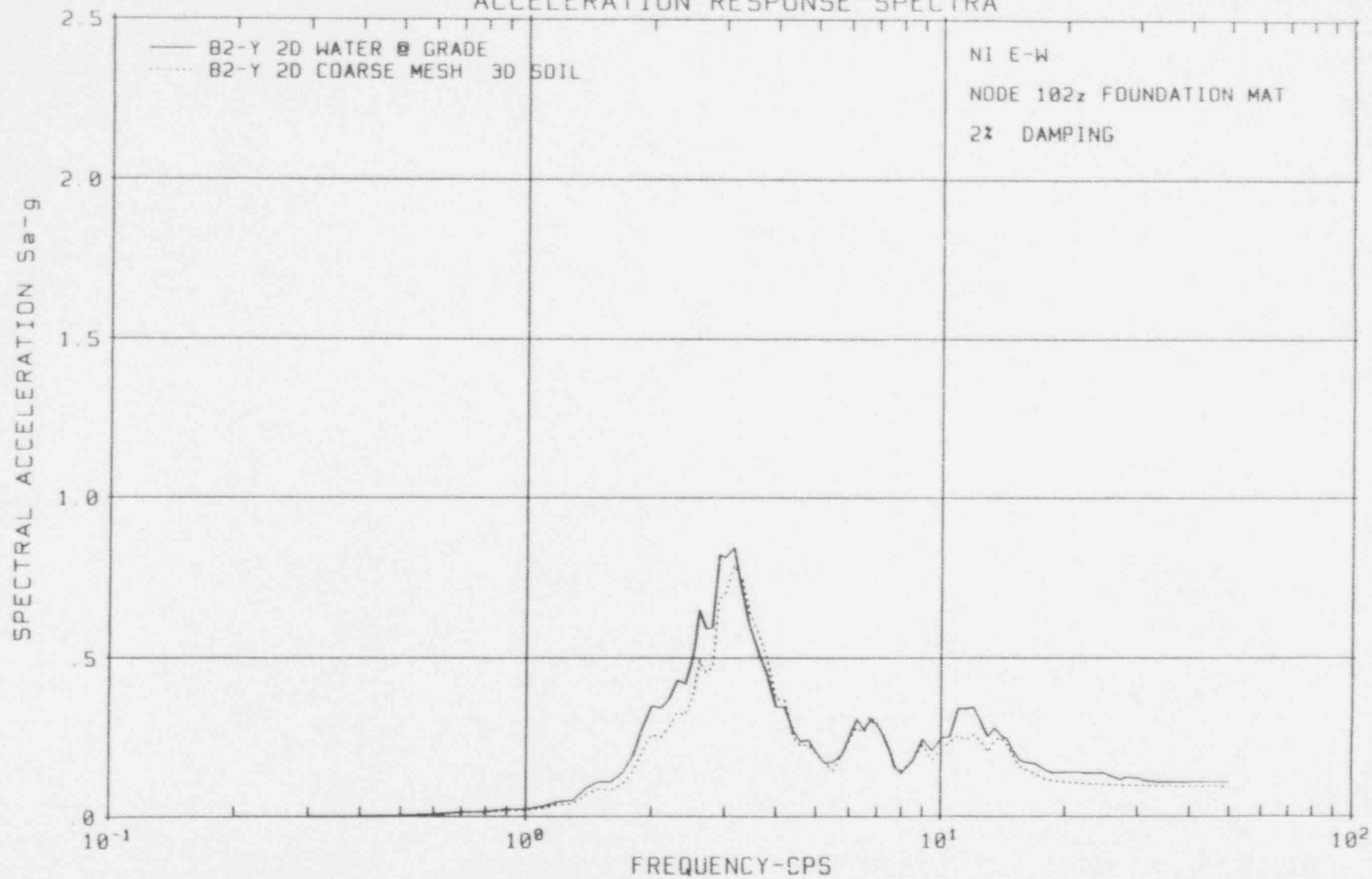
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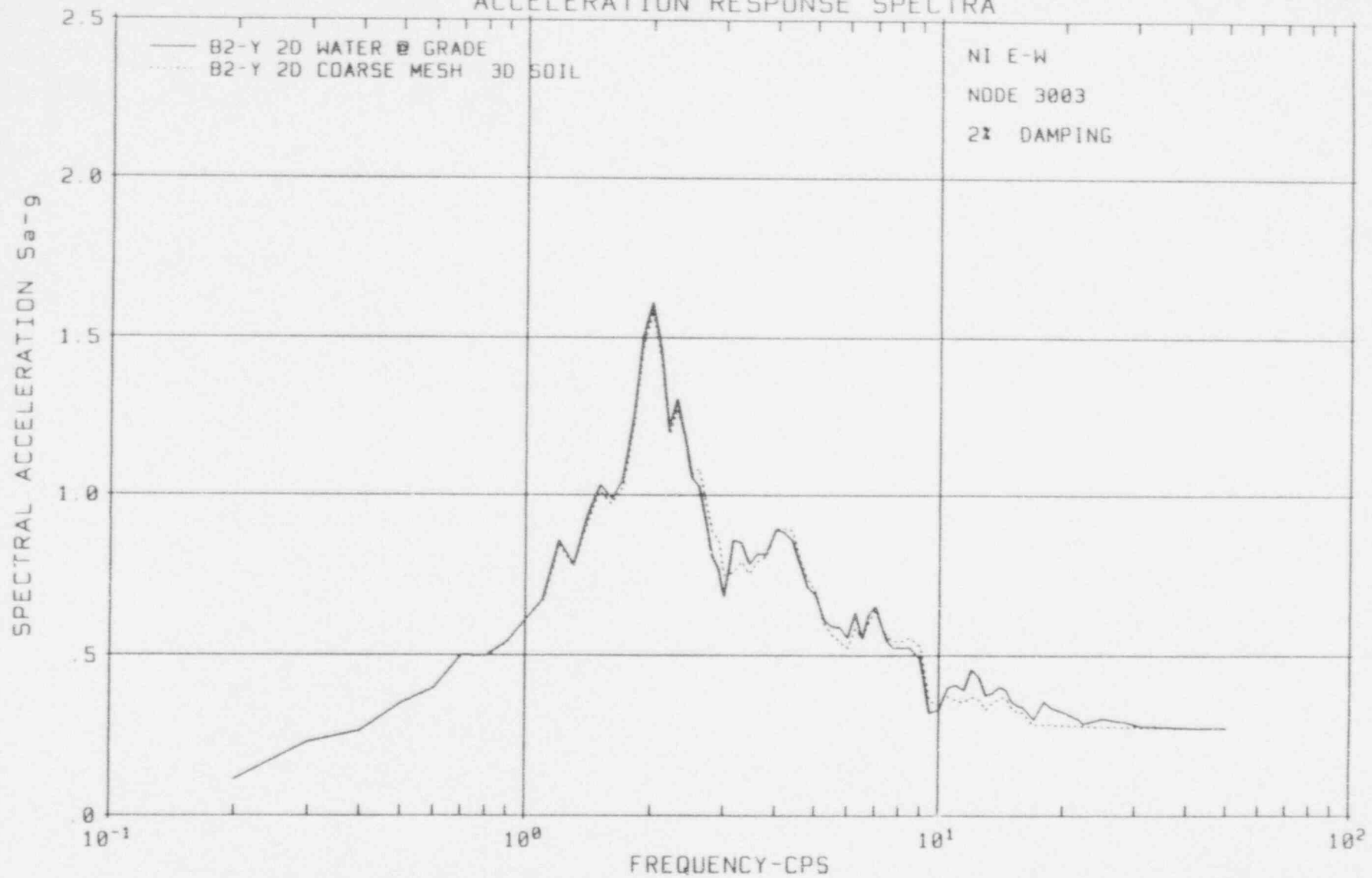
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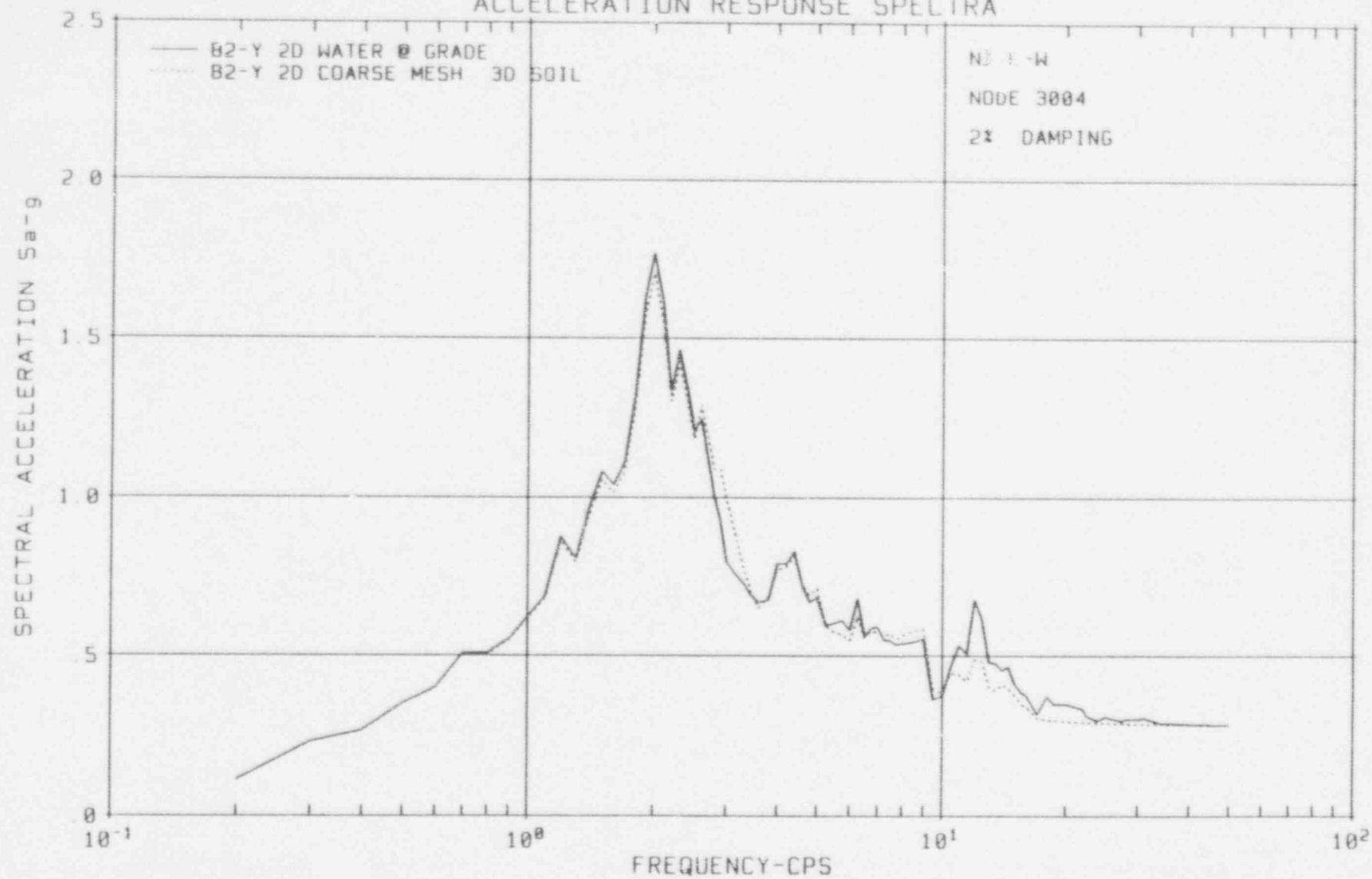
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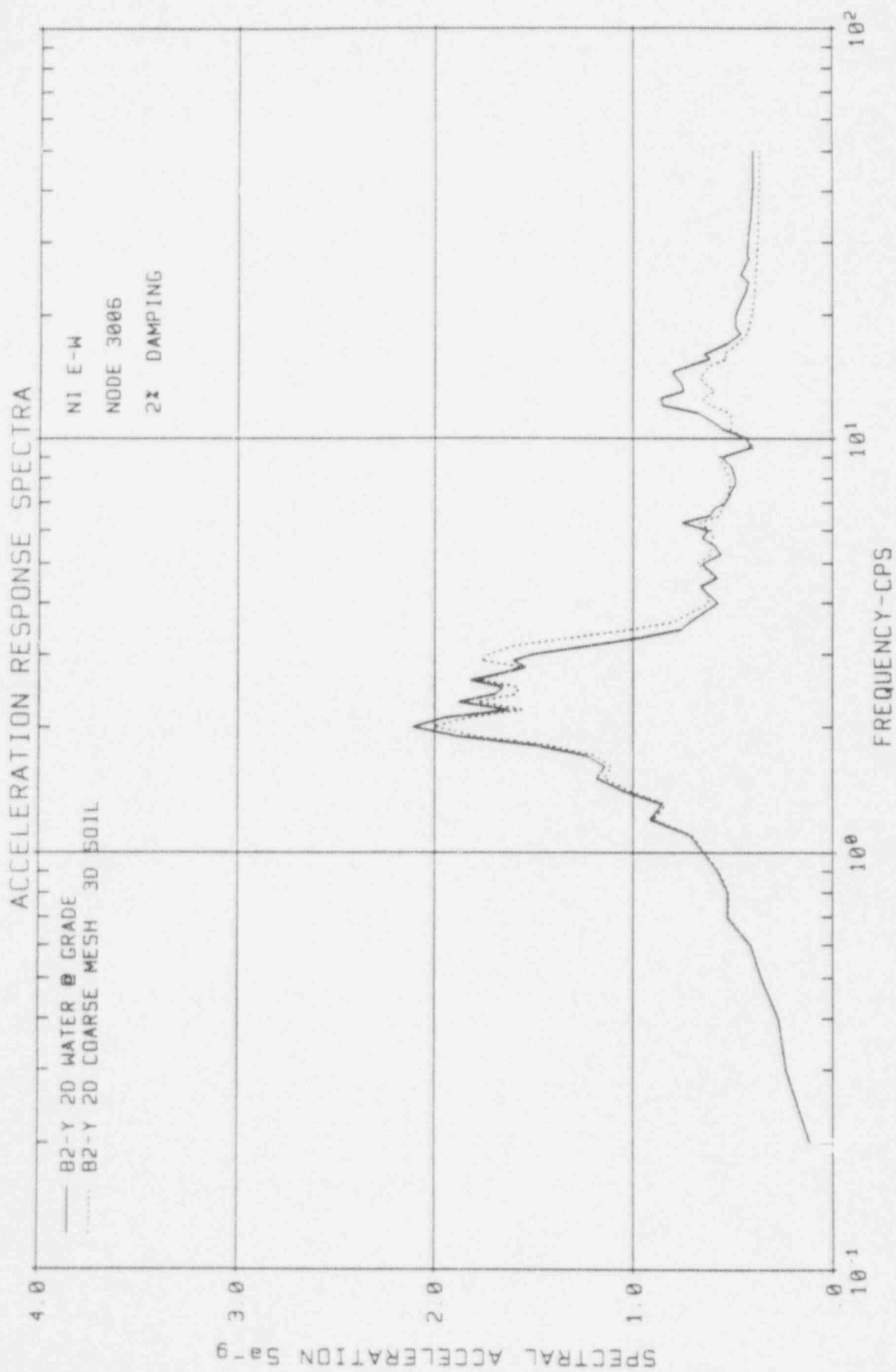


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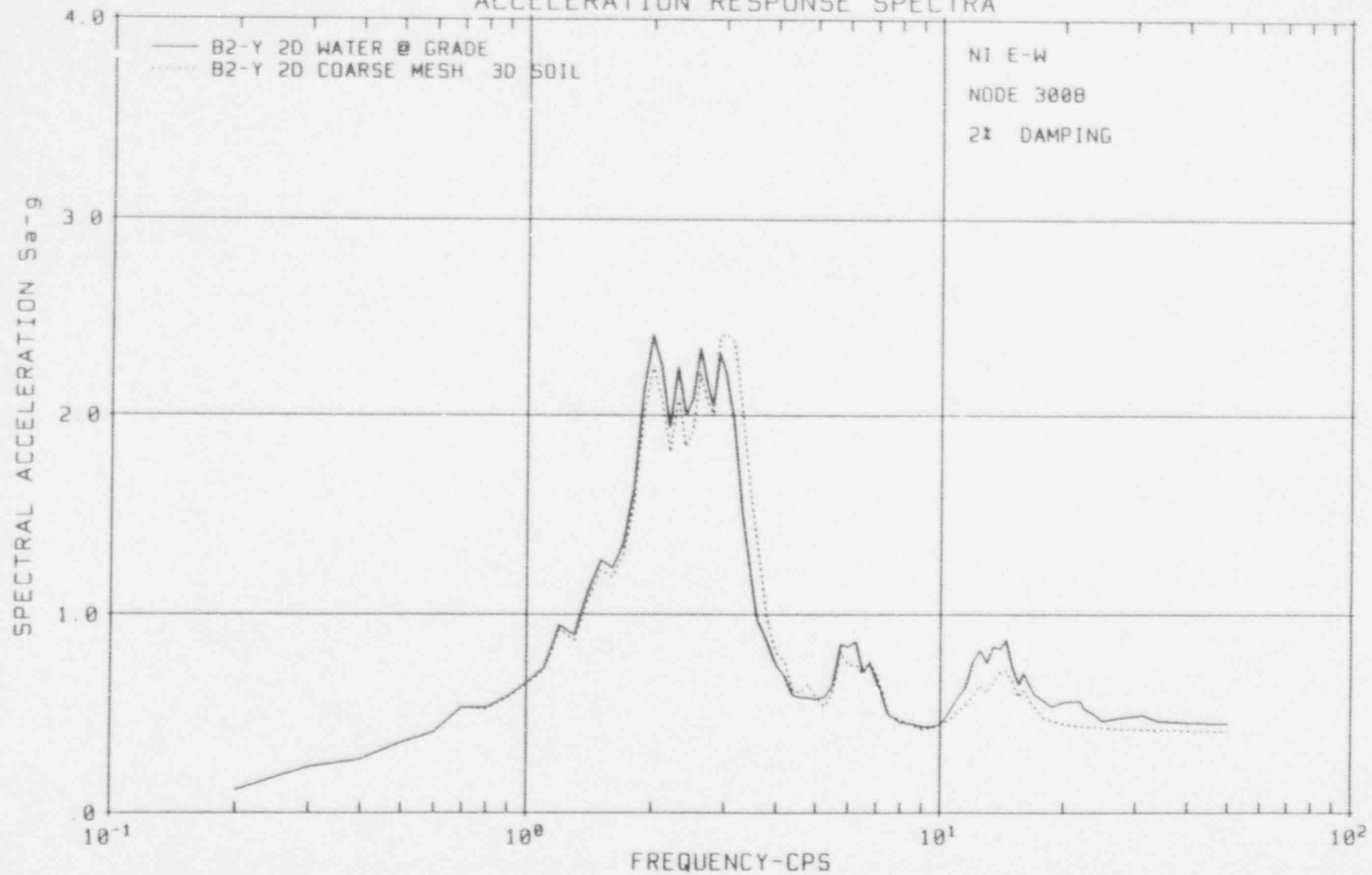


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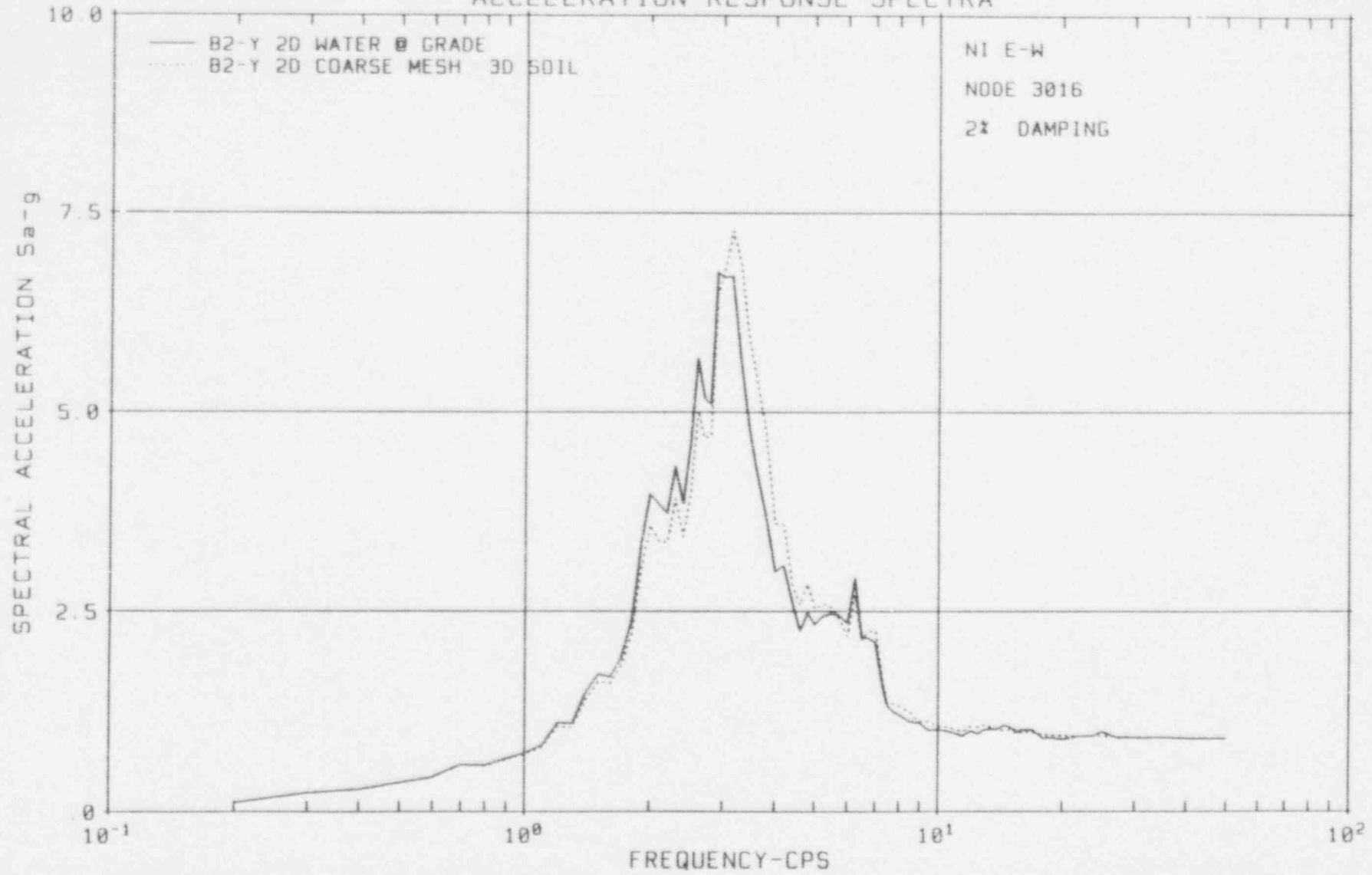




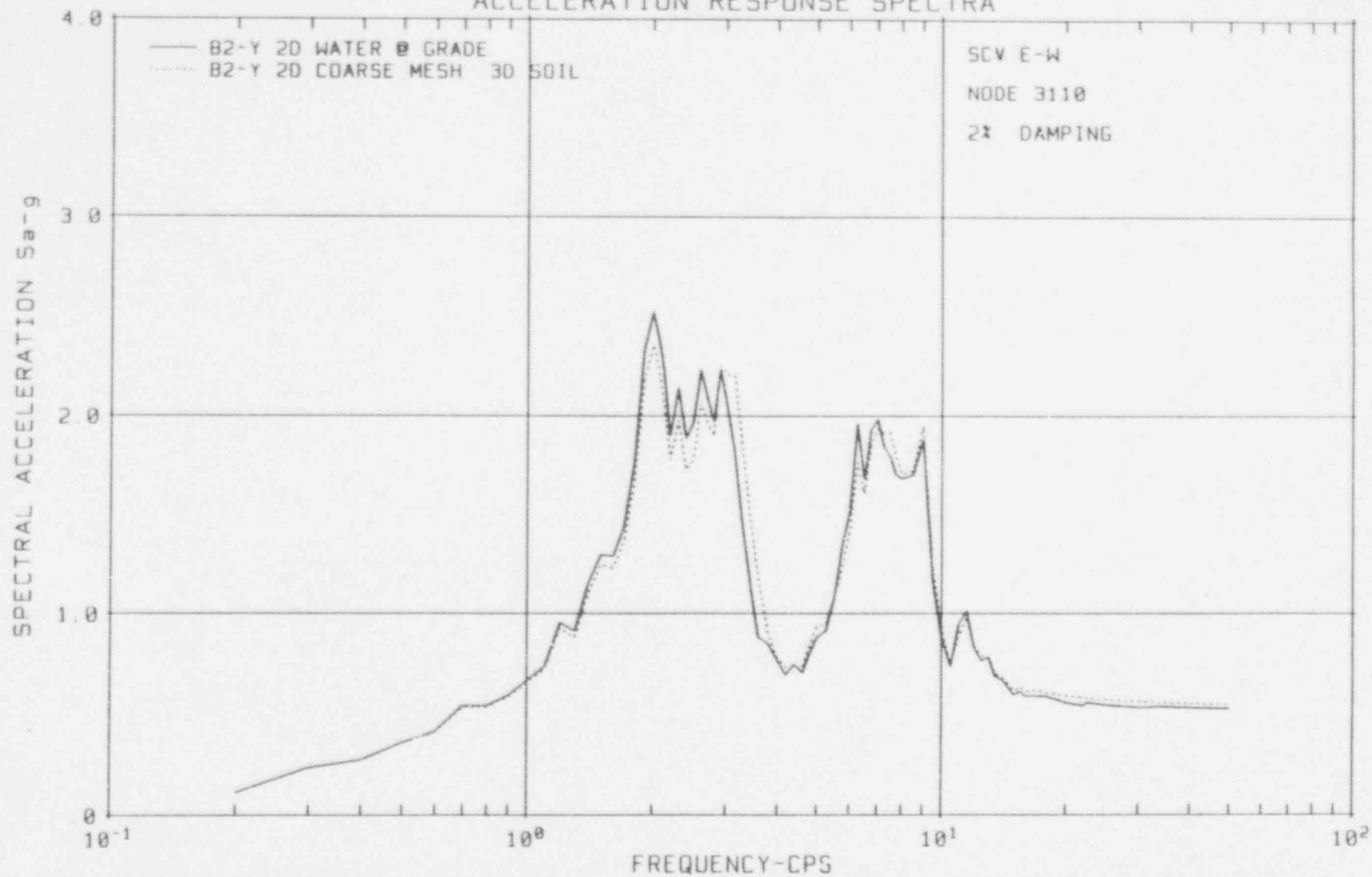
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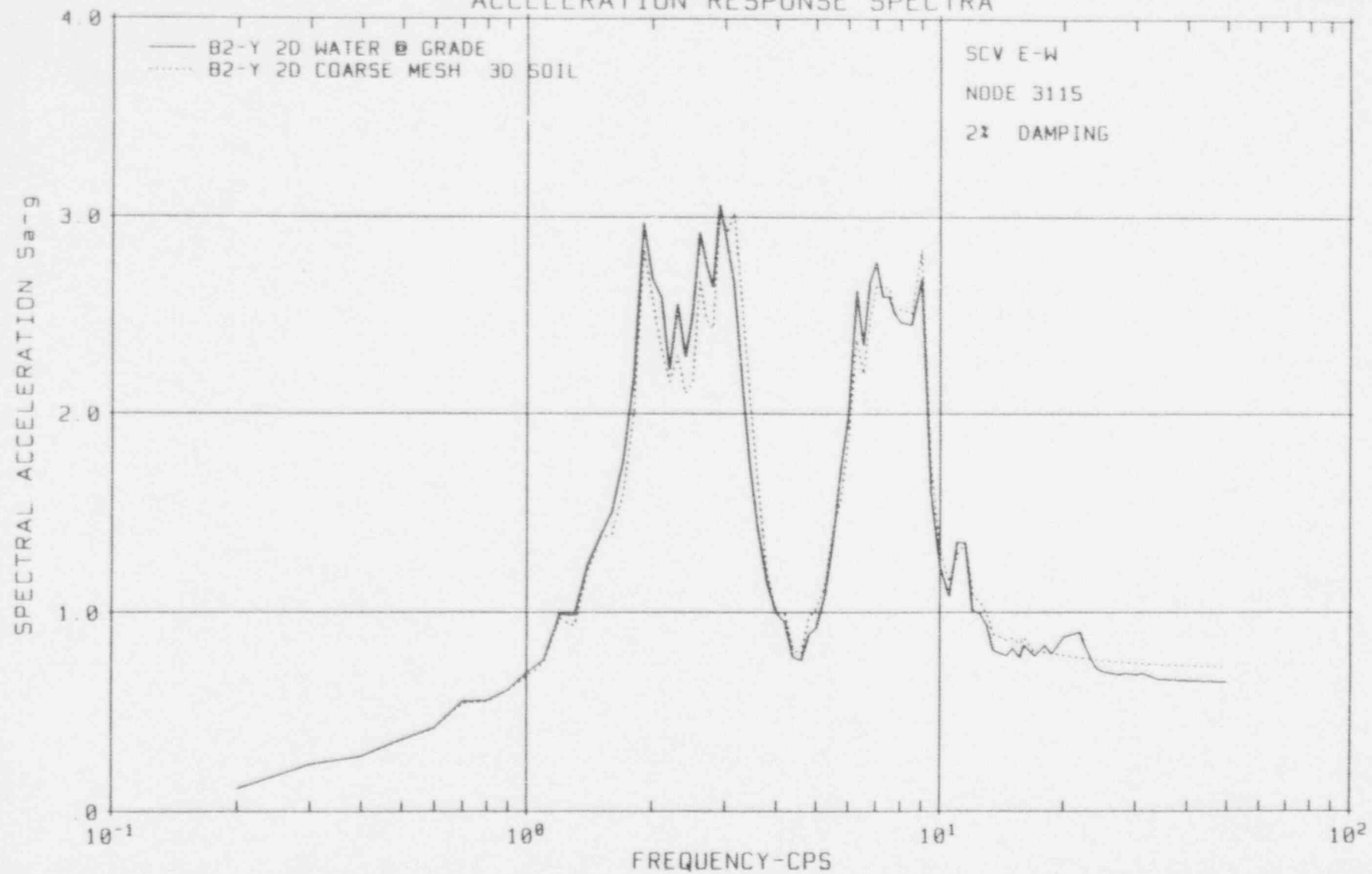
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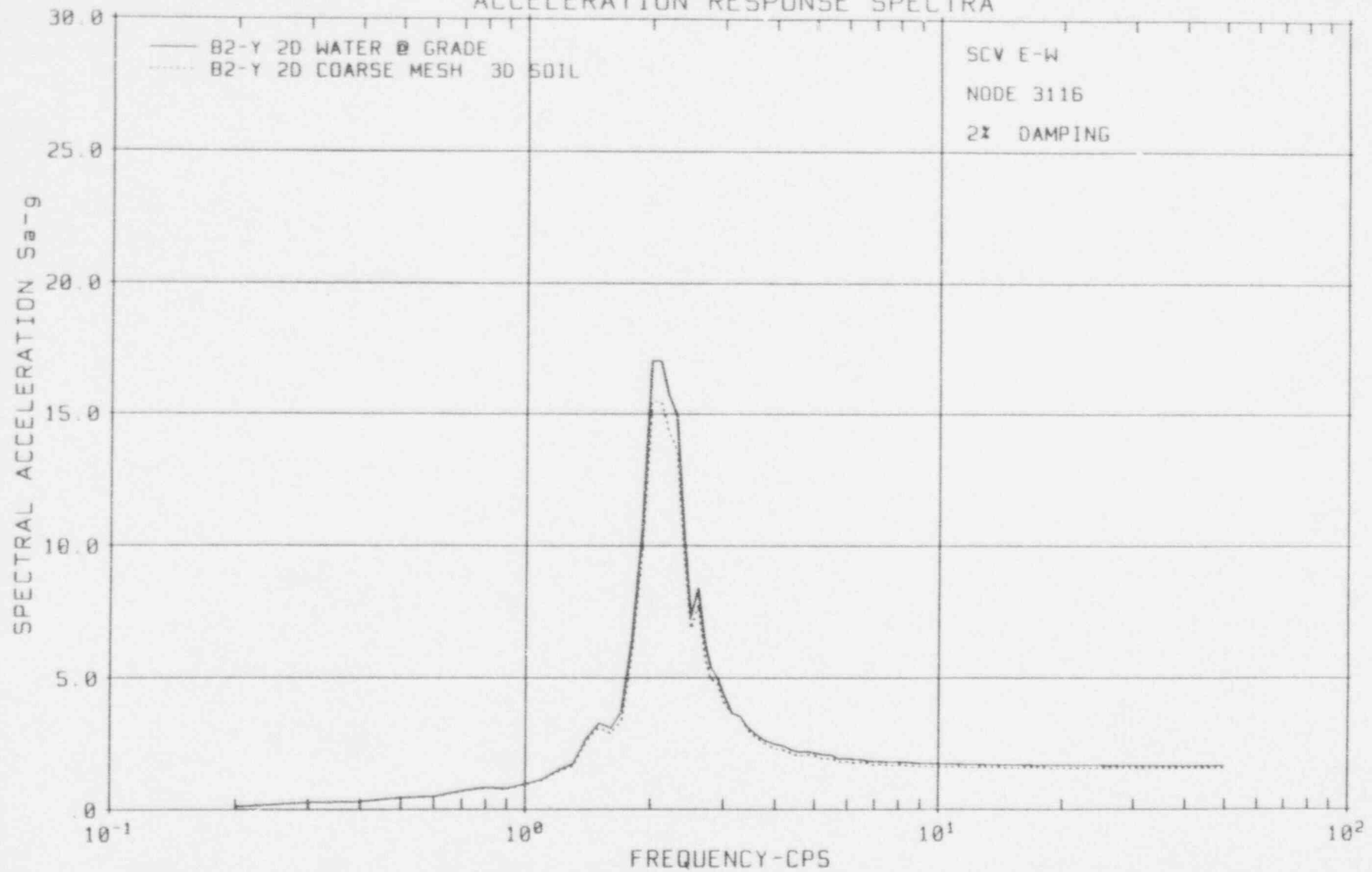
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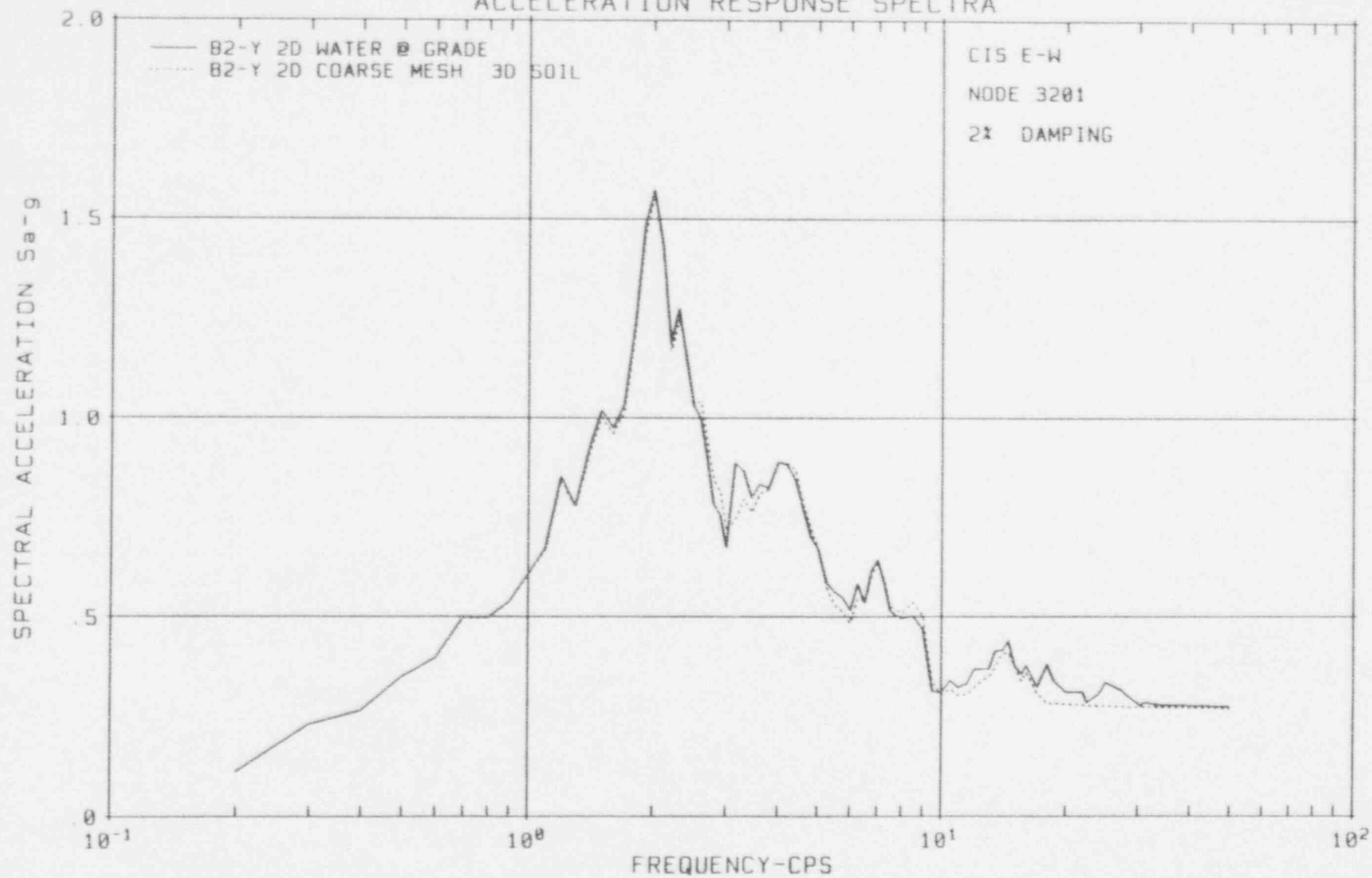
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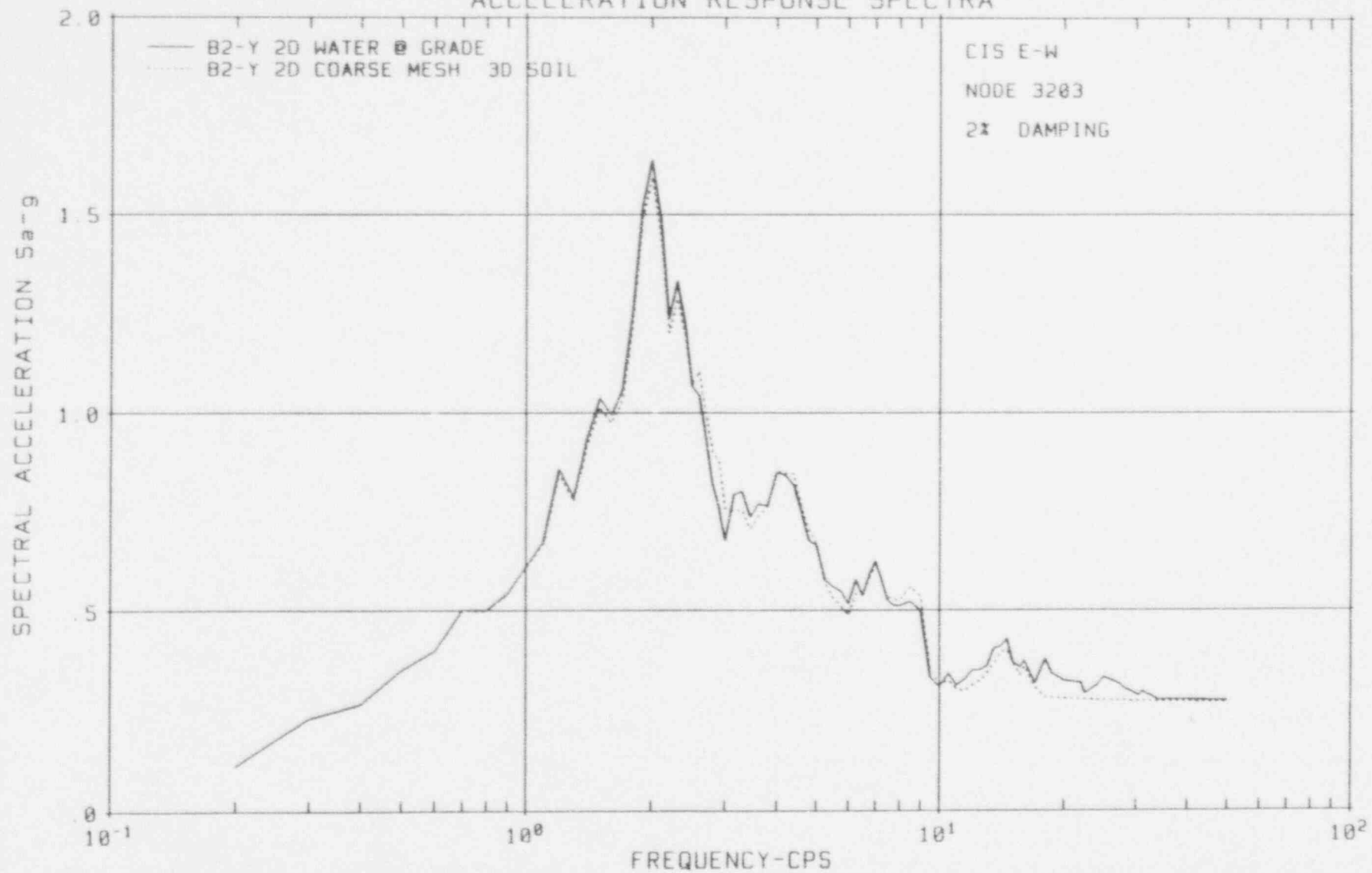
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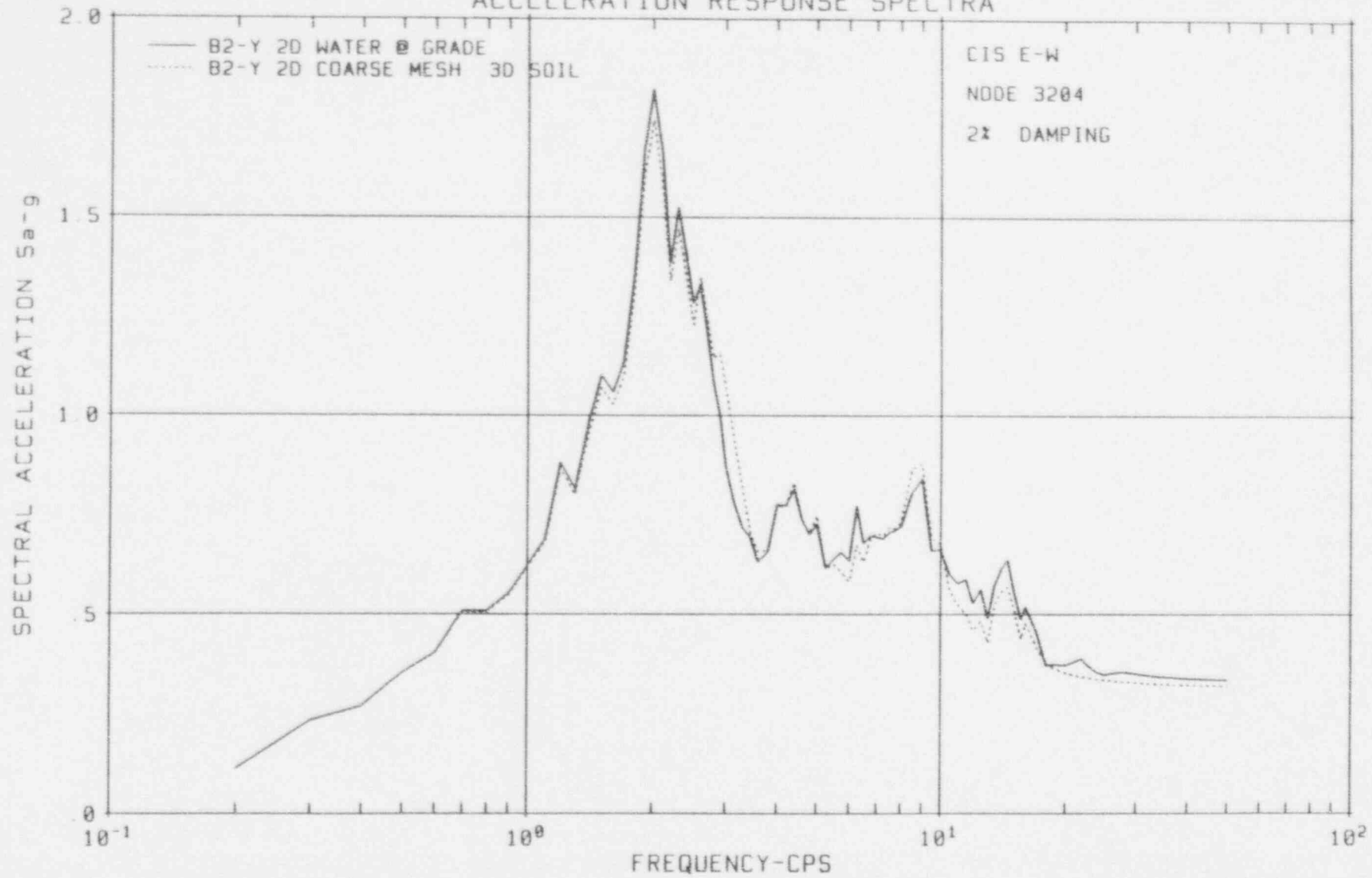
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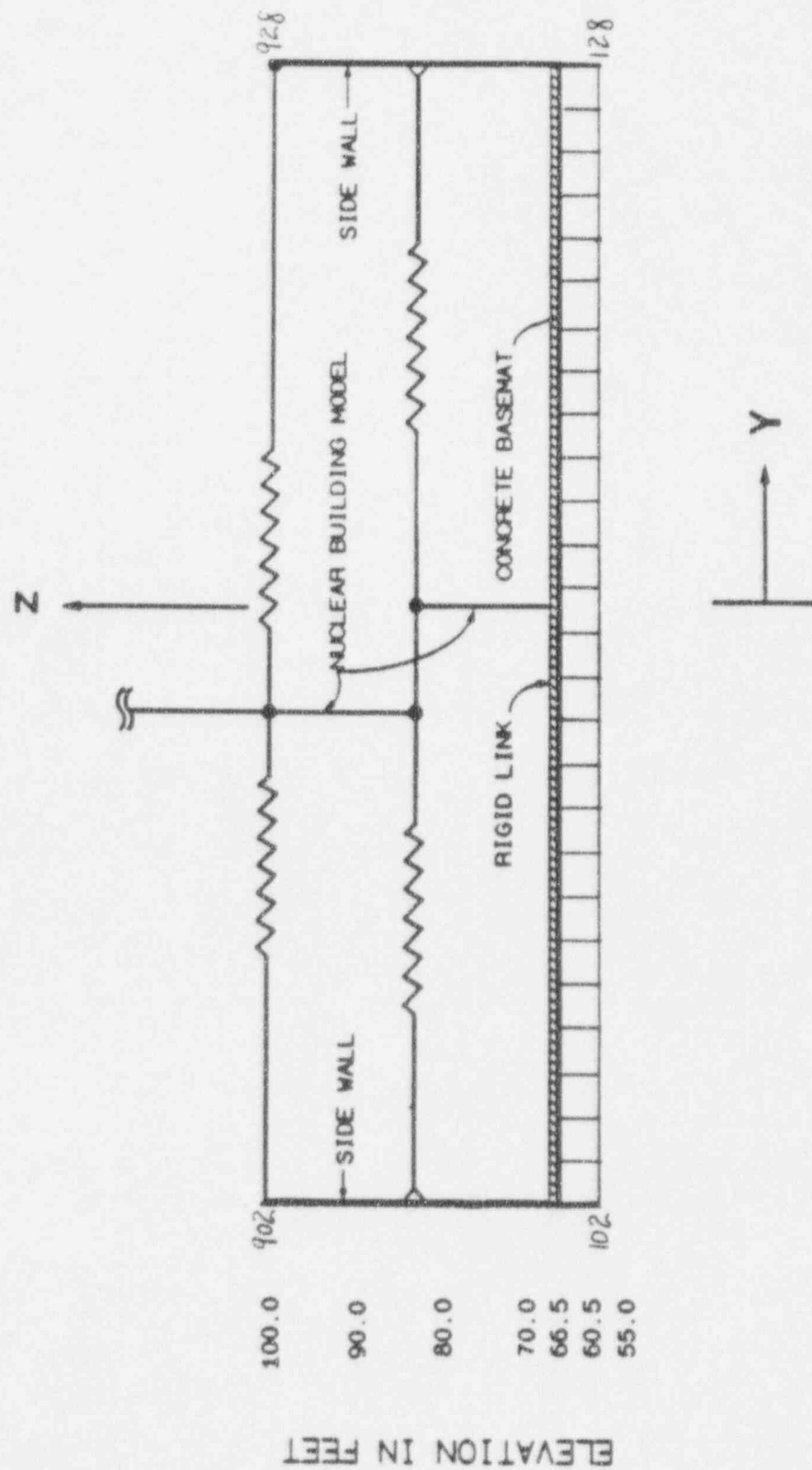
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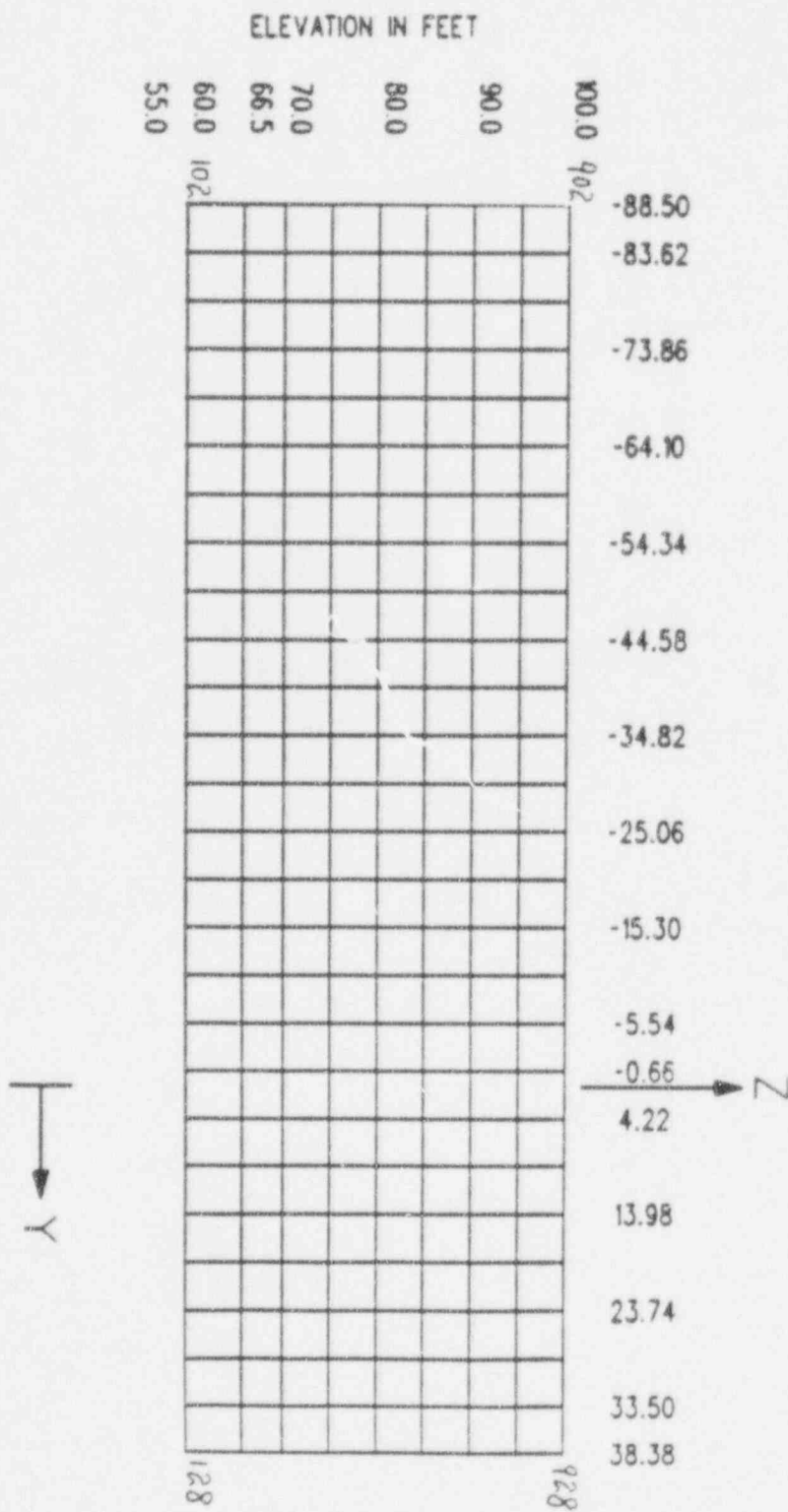
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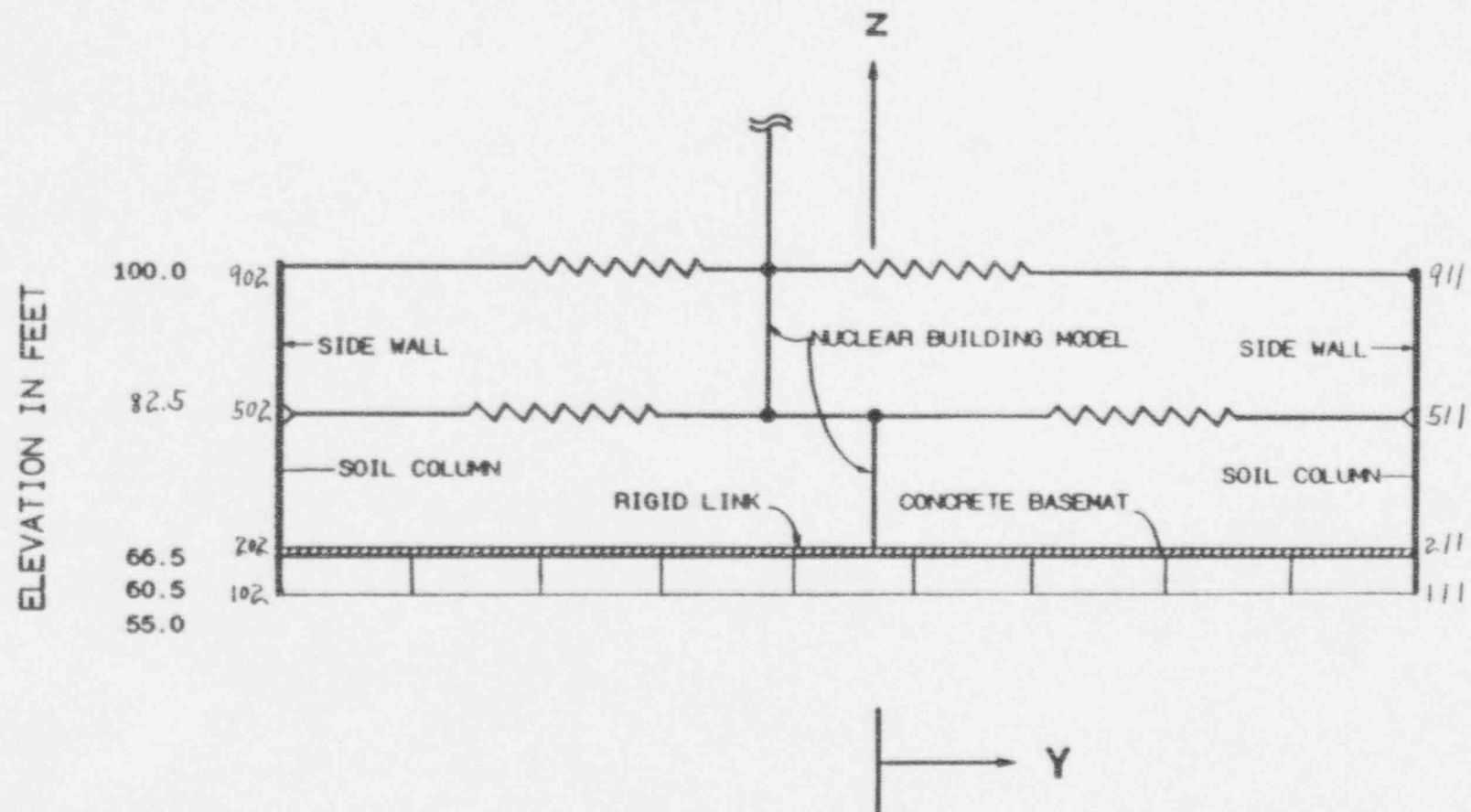
SASSI Basement Model (YZ Plane) - Fine Mesh



SASSI Excavated Soil Model (YZ Plane) - Fine Mesh



SASSI Basement Model (YZ Plane) - Coarse Mesh



SASSI Excavated Soil Model (YZ Plane) - Coarse Mesh

