ECR SWITCH MODULE TECHNICAL REQUIREMENTS

The switch module shall contain the following components:

OT2S1 Selector switch (2 positions, maintained in all positions), standard handle, 2x contact blocks OT2A, escutcheon plate, color coded face plate, plug connector with pins (8 pins connector), socket connector for external connections with pins (8-pins connector) and mounting hardware.

The specific components required are listed below.

Wire use in the module shall be Teflon covered Type E or K per MIL-W-16878, 600 volt, stranded, single conductor, 16AWG.

ITEM DESCRIPTION

1. Module type identification code (as per Westinghouse DWG No. 1210E79 see #8.501-except connector to be 8 pins): MO2SXB (5,75" x 3,625" front plate/panel dimension) – (see page 2,3 of 9)

2. Faceplate RAL color code number 6011

3. EZC type lamps, module lamp groups (as per Westinghouse DWG No. 1210E79 sheet #8.510): Number 001 (TOP – from left to right Green-Red) see page 4 of 9.
   EZC lamp model numbers:

   - 1 x 125EZC-G (GREEN)
   - 1 x 125EZC-R (RED)

4. Graphics Layout Description OT2S1 selector switch nameplate (CLOSE OPEN).
   Escutcheon plate No. WESTLOK 005 (CLOSE-OPEN)-(see page 5 of 9).

5. 8 pin connectors:
   - Receptacle model: OT07128PH with male pins P-N RM16M-23K
   - Plug model: UT06128SH with female pins P/N RC16M-23K

6. OT2S1 switch 2 x OT2A contact blocks. Definition and connection (inside the module) to the pins of 22-pin receptacle (exactly as shown on Westinghouse drawing No. 1210E79 sh.918) – see page 6 of 9.

7. Floor response spectra to be used to seismically qualify the module OBE 2% (Figure A77, A78) SSE 4% (figure C121, C122, C123). (See page 8,9,10 of 10)

DWG NO. 1210E79

Sheet # 8.501 Rev. 02
Date 12/18/75
Revised 3-16-76
By W. R. Young

PRJ: KRK

MODULE TYPE IDENTIFICATION CODE

M G 4 S B A

TYPE OF SWITCH HANDLE

- B - Bar
- O - Oval
- W - Wing Lever
- P - Pistol Grip
- R - Round
- S - Star
- L - Lever
- X - Standard OT-2
- K - Key Lock

MODULE CONNECTOR

- A 12 pin connector
- B 22 pin connector
- C 38 pin connector
- D 48 pin connector
- E Two 12 pin connectors
- F Two 22 pin connectors
- G 12 pin and 48 pin connectors
- H 22 pin and 48 pin connectors
- S Special connector
- J Two 50 pin connectors
- K Three 22 pin connectors

* 8 pin connector

SWITCH OPERATOR

- S Selector Switch
- P Pushbutton
- J Joystick

SWITCH TYPE

- G Gemco Type 404
- W Westinghouse Type W-2
- O Westinghouse Type OT-2
- D Dual Train W-2
- E Dual Train Gemco
- M Selector Switch
- R Rod Motion
- P Predetermining Counter
- A Annunciator (3/4)
- B Annunciator (Full)
- I W-2/Meter

NUMBER OF QUADRANTS IN INDICATING LAMP ASSEMBLY

GEMCO

- 0 No indicating lamp assembly
- 1 One quadrant indicating lamp assembly
- 2 Two quadrant indicating lamp assembly
- 3 Three quadrant indicating lamp assembly
- 4 Four quadrant indicating lamp assembly

NUMBER OF INDICATING LAMPS

All Other Modules

- 0 No indicating lamps
- 1 One indicating lamp
- 2 Two indicating lamps
- 3 Three indicating lamps
- 4 Four indicating lamps
- 5 Five indicating lamps
- 6 Six indicating lamps

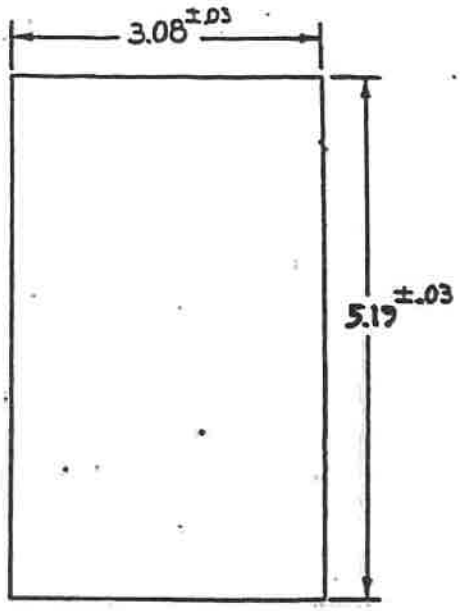
Module 1320-CS-L [ECR]

M02SX(*)

* 8 pin connector

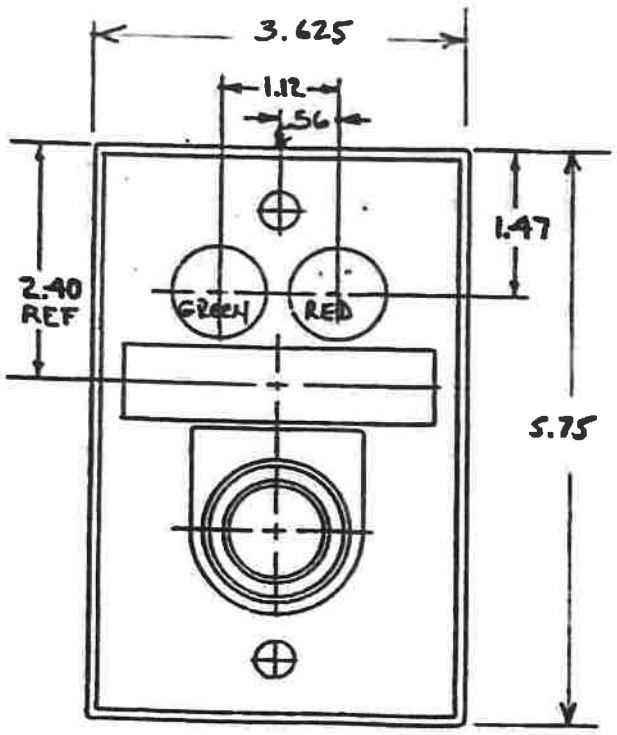
Nuklearna Elektrarna Krško
MASTER DOCUMENT
Date Received: 16. Mai 94
Log Number: 241/93C

SKETCH



PANEL CUTOUT

MCB THICKNESS IS 0.25 INCHES.



M02
FRONT VIEW

DWG NO. 1210E79
Sheet 8.504 REV.00
12-13-

REFERENCE NUMBER	SYSTEM	MICARTA COLOR	MICARTA NUMBER
01	Reactor Safeguards & Protection	San Fernando Red	90M48
02	Resets	Pearl Black	92M16
03	Blocks & Unblocks	Poppy Red	91M33
04	Nuclear & Rod Control	Desert Orange	90M50
05	Reactor Coolant	Jamaica Yellow	90M41
06	CVCS - Letdown, charging, make-up	Spanish Olive	92M24
07	CVCS - Thermal Regeneration	Squash Yellow	91M05
08	CVCS - Seal Water, Excess Letdown	Gold	90M27
09	Residual Heat Removal	Harvest	92M26
10	Safety Injection	Light Vermilion	91M32
11	Containment Spray	Gold	90M27
12	Containment Heating & Vent.	Colonial White	90M74
13	Component Cooling Water	Squash Yellow	91M05
14	Service, River, Pond Water	Harvest	92M26
15	Aux. Feedwater	Apollo Blue	90M43
16	Main Feedwater	Marine Blue	90M44
17	Main Steam	Athens Blue	90M45
18	Condensate	Dark Blue	91M25
19	Turbine	String	91M12
20	Generator	Gold	90M27
21	Elect. Distribution High (380KV)	Desert Orange	90M56
22	Elect. Distribution Med. (110KV)	Harvest	92M26
23	Elect. Distribution Low (6.3KV)	Jamaico Yellow	90M41
24	Misc.	String	91M12

Nuklearna Elektrarna Krško
MASTER DOCUMENT
Date Received: 16. Mai 94
Log Number: 20/0237

SKETCH SHEET
FORM 54458A

Westinghouse Electric Corporation
Nuclear Energy Systems

DWG NO. 1210E79

SHEET NO. 8.510 REV 01
DATE..... 10-28-75
REVISED.. 2-9-76
BY..... W. K. YOUNG

PRJ

Nuklearna Elektrarna Krško
MASTER DOCUMENT
Date Received: 16. Mai 94
Log Number: 2201/030

EZC TYPE LAMPS, MODULE LAMP GROUPS (FRONT VIEW)

001	006	011
G R	G W R	G R W A
002	**007**	**012**
R R	W W W	G R G R
003	**008**	**013**
B R	G R R	G G G R R R
004	**009**	**014**
B B	G B R	W W
005	**010**	**015**
A W R	G A R	G G G G

G - GREEN - S# 449D187G24
R - RED - S# 449D187G14
W - WHITE - S# 449D187G34
A - AMBER - S# 449D187G54

} 3300Ω res.

DWG NO. 1210E79

SKETCH SHEET
Form 54858A

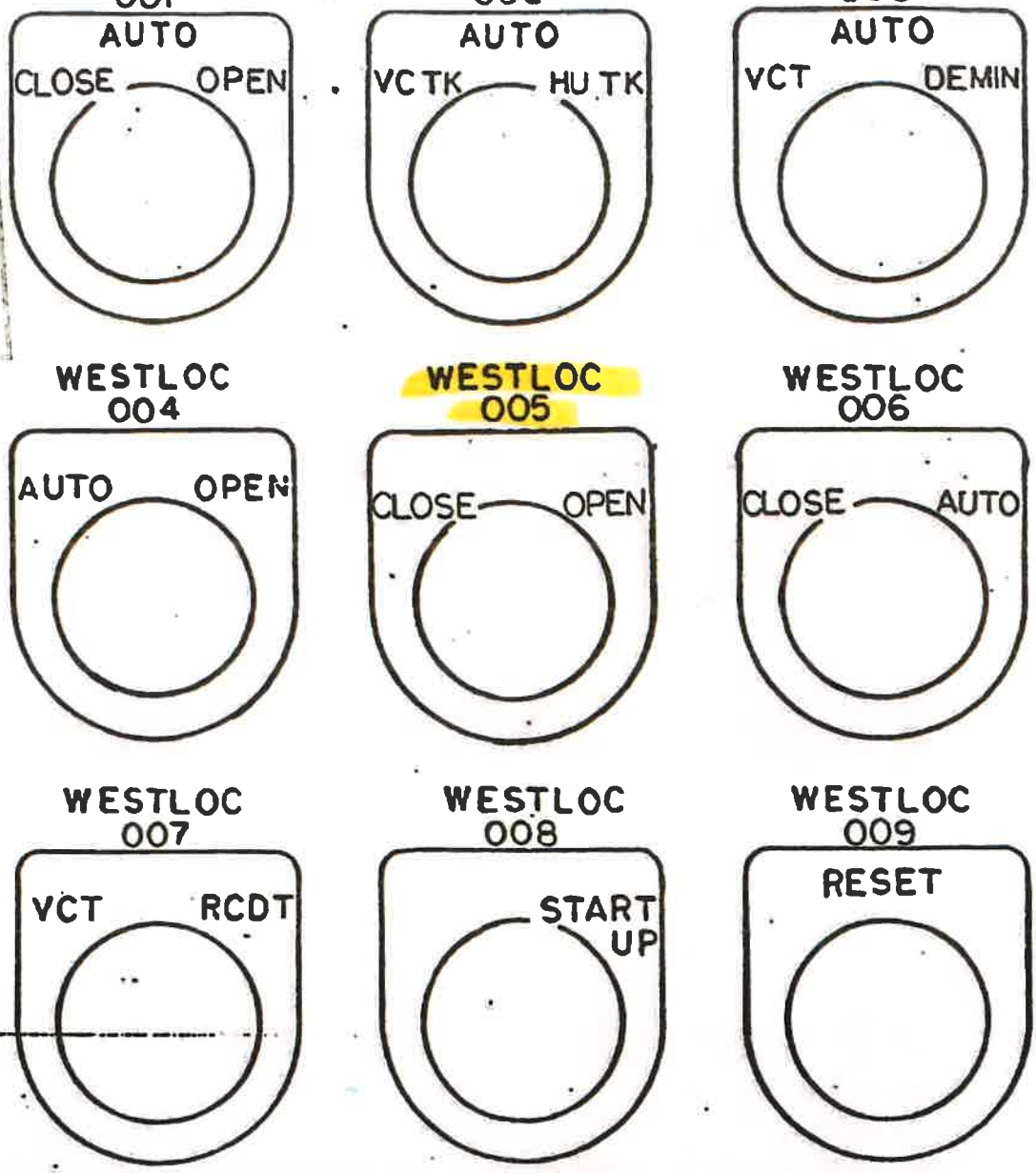
Westinghouse Electric Corporation
Nuclear Energy Systems

SHEET NO. 8.520 REV 00
DATE..... 12-18-75
REVISED..
BY..... W. R. YOUNG

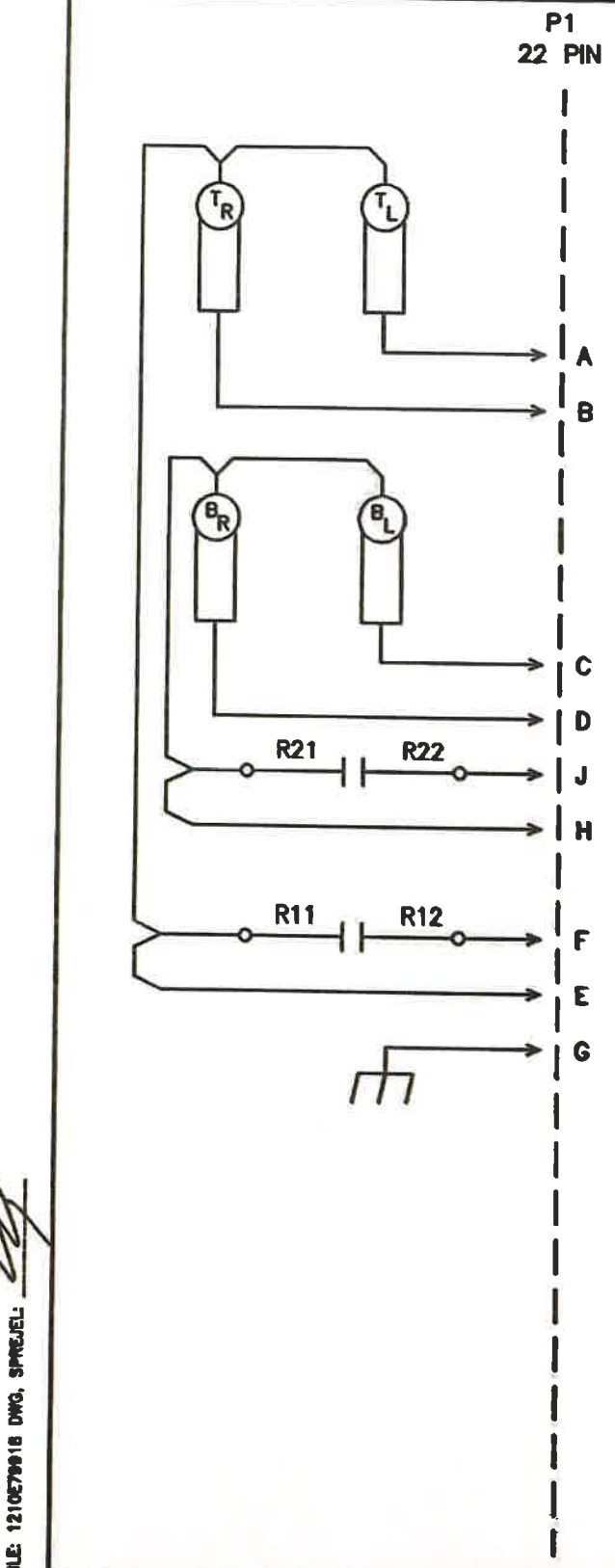
PRJ: KRK

OT2 ESCUTCHEON PLATES

Nuklearna Elektrarna Krško
MASTER DOCUMENT
Date Received: 16. Maj 19
Log Number:



NUKLEARNA ELEKTRARNA KRSKO NUCLEAR POWER PLANT KRSKO	DRAWING NUMBER				REV
	1210E79			SH: 918	0
Nuclear Energy Systems	MADE	CHKD	DWG APP	DATE	DESIGN ENGINEERING NUCLEAR POWER PLANT KRSKO KRSKO, SLOVENIA
	KM	MK	RP	26.04.21	

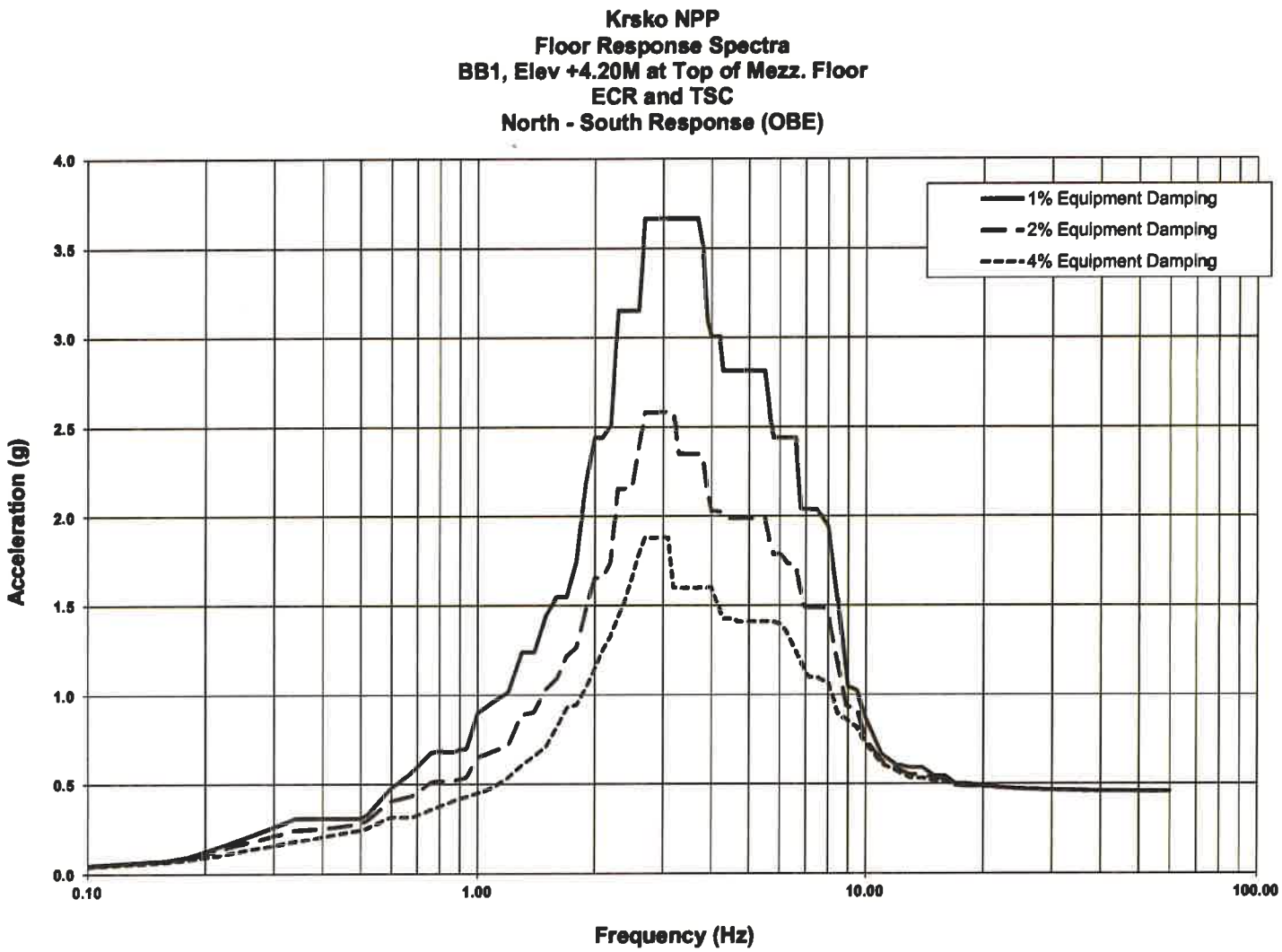


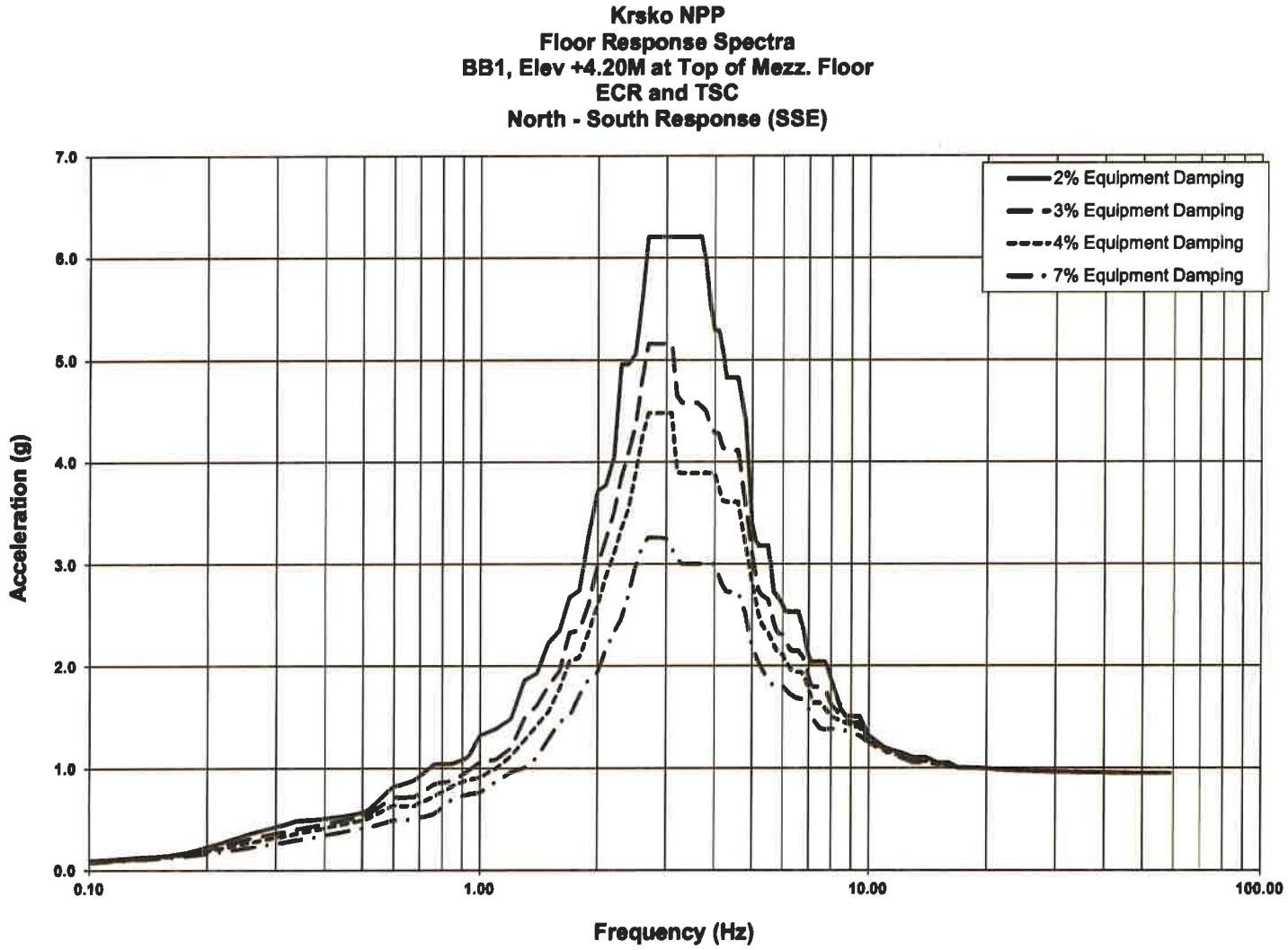
CONTACT BLOCKS	CLOSE OPEN	SELECTOR SWITCH OPERATOR OT2S1 2 POSITION MAINTAINED STANDARD HANDLE	L	R	
1ST BLOCK (FRONT) OT2A ROTATED 180°		L11	X	0	R11
		L12	0	X	R12
2ND BLOCK OT2A ROTATED 180°		L21	X	0	R21
		L22	0	X	R22

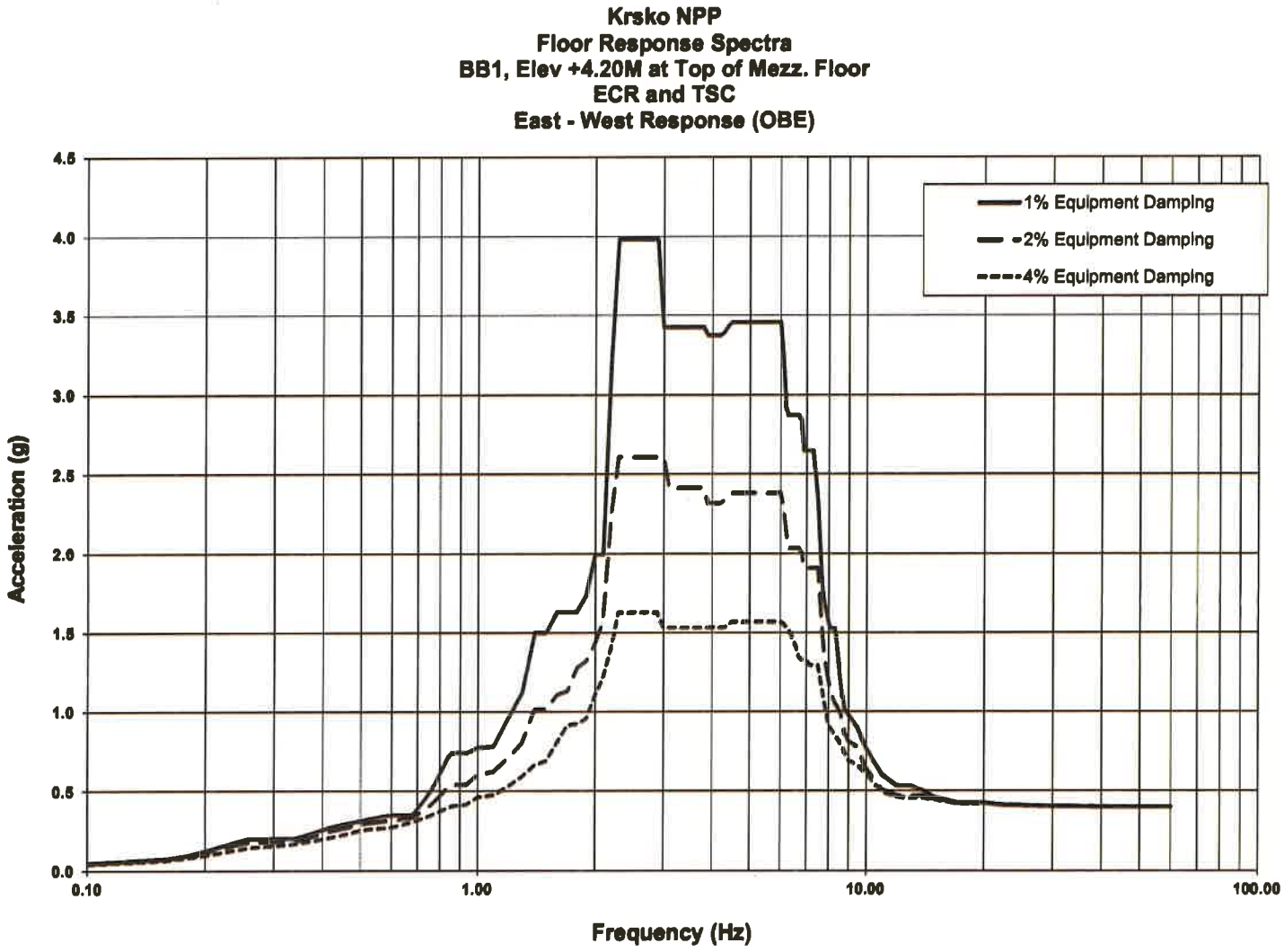
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MASTER DOCUMENT
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Log Number: 270732

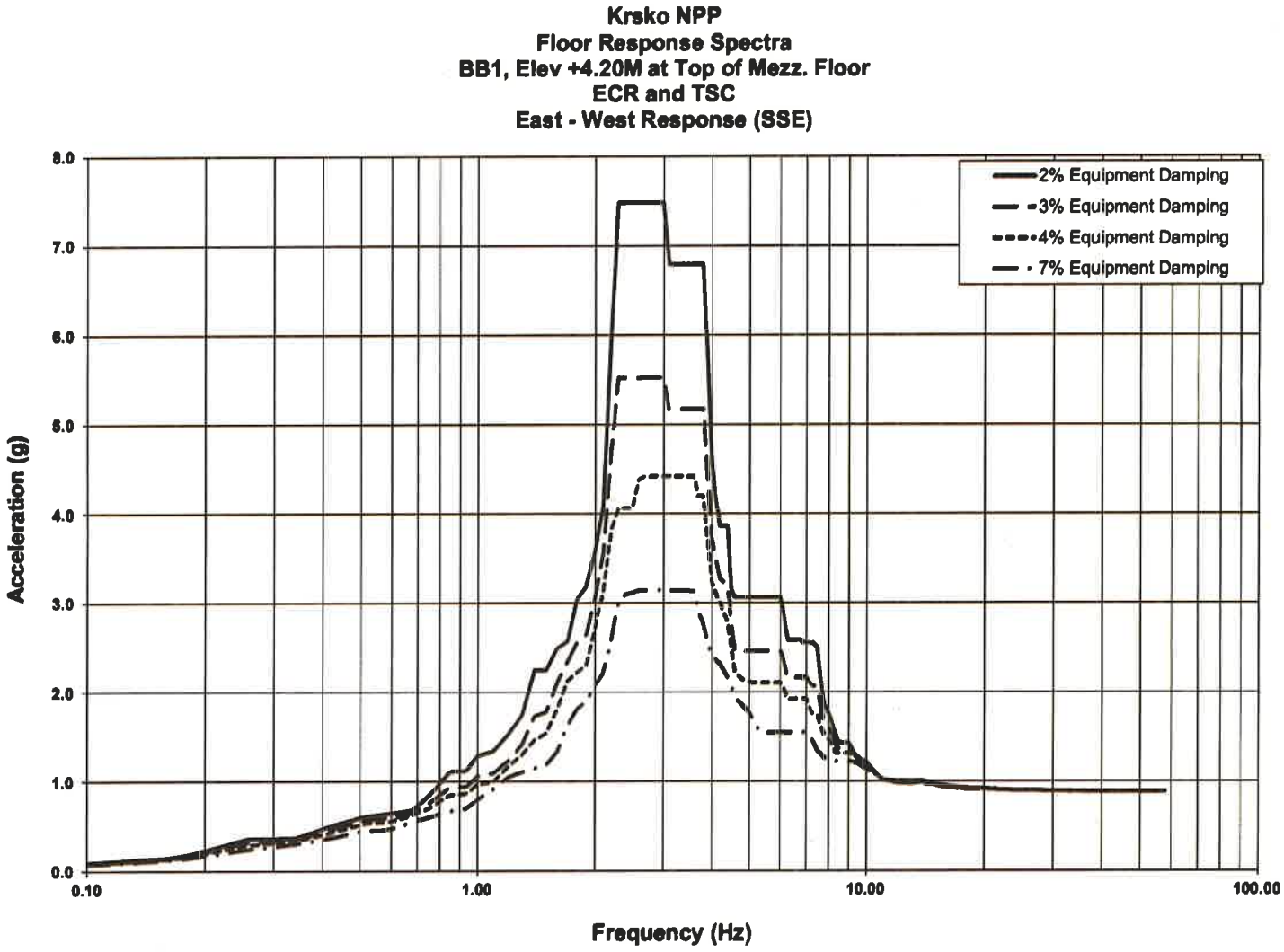
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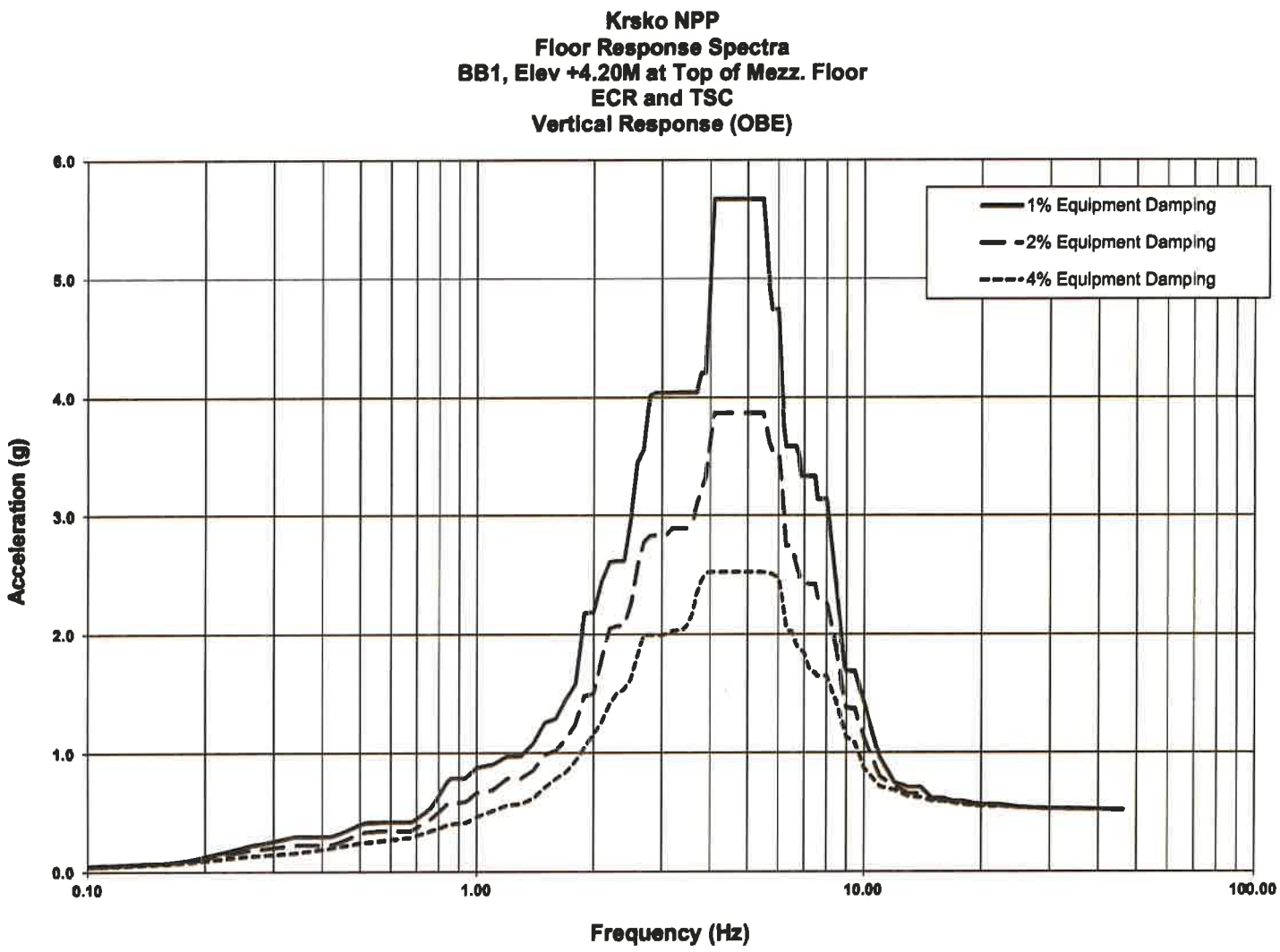
Replaced Manual Drawing: N/A
Original Design Firm: NEK d.o.o.
Last Revision And Date: N/A

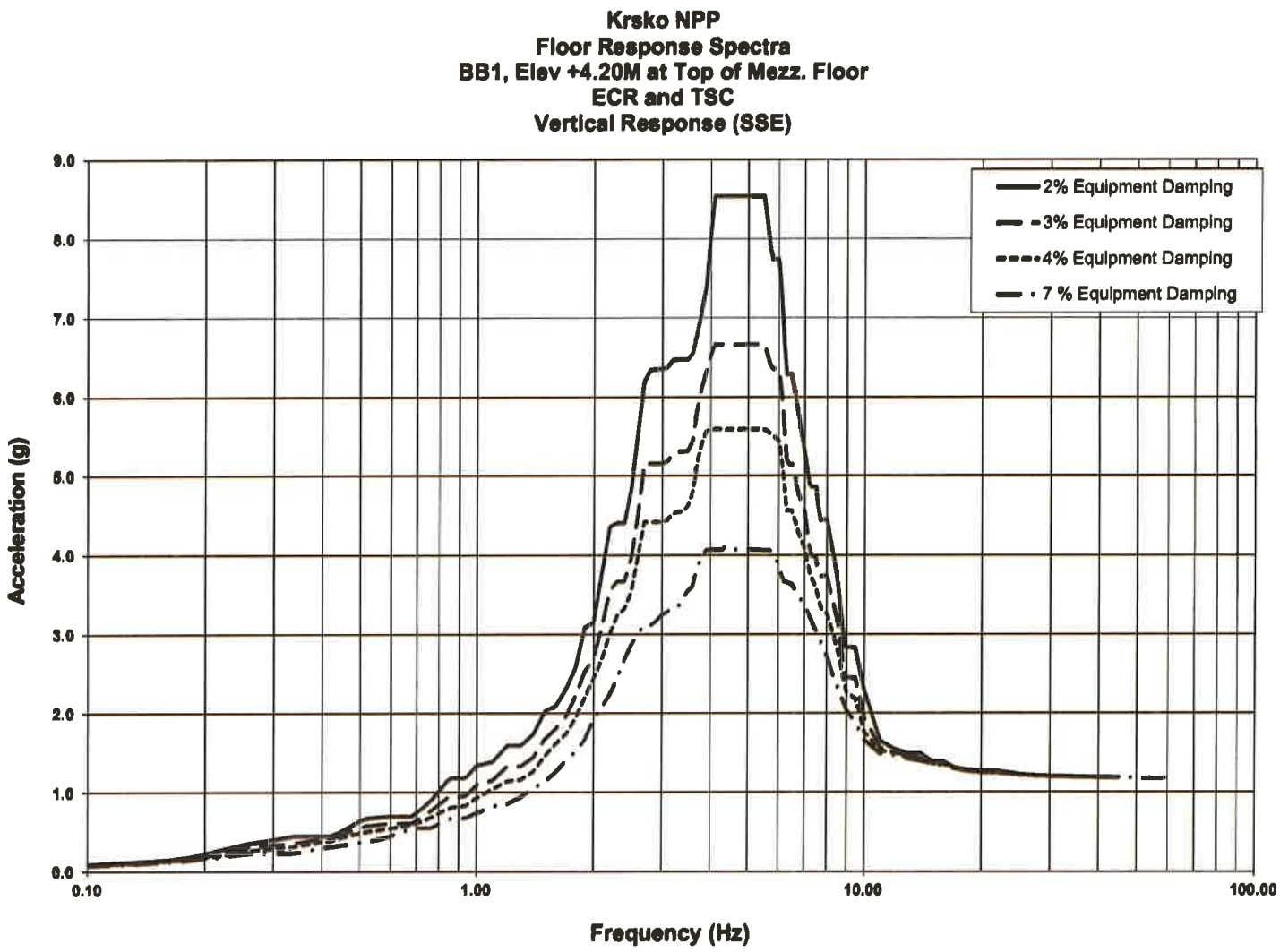

Krsko NPP
Floor Response Spectra
BB1, Elev +4.20M at Top of Mezz. Floor
ECR and TSC
North - South Response (OBE)
1% Equipment Damping
2% Equipment Damping
4% Equipment Damping
Acceleration (g)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.10
1.00
10.00
100.00
Frequency (Hz)

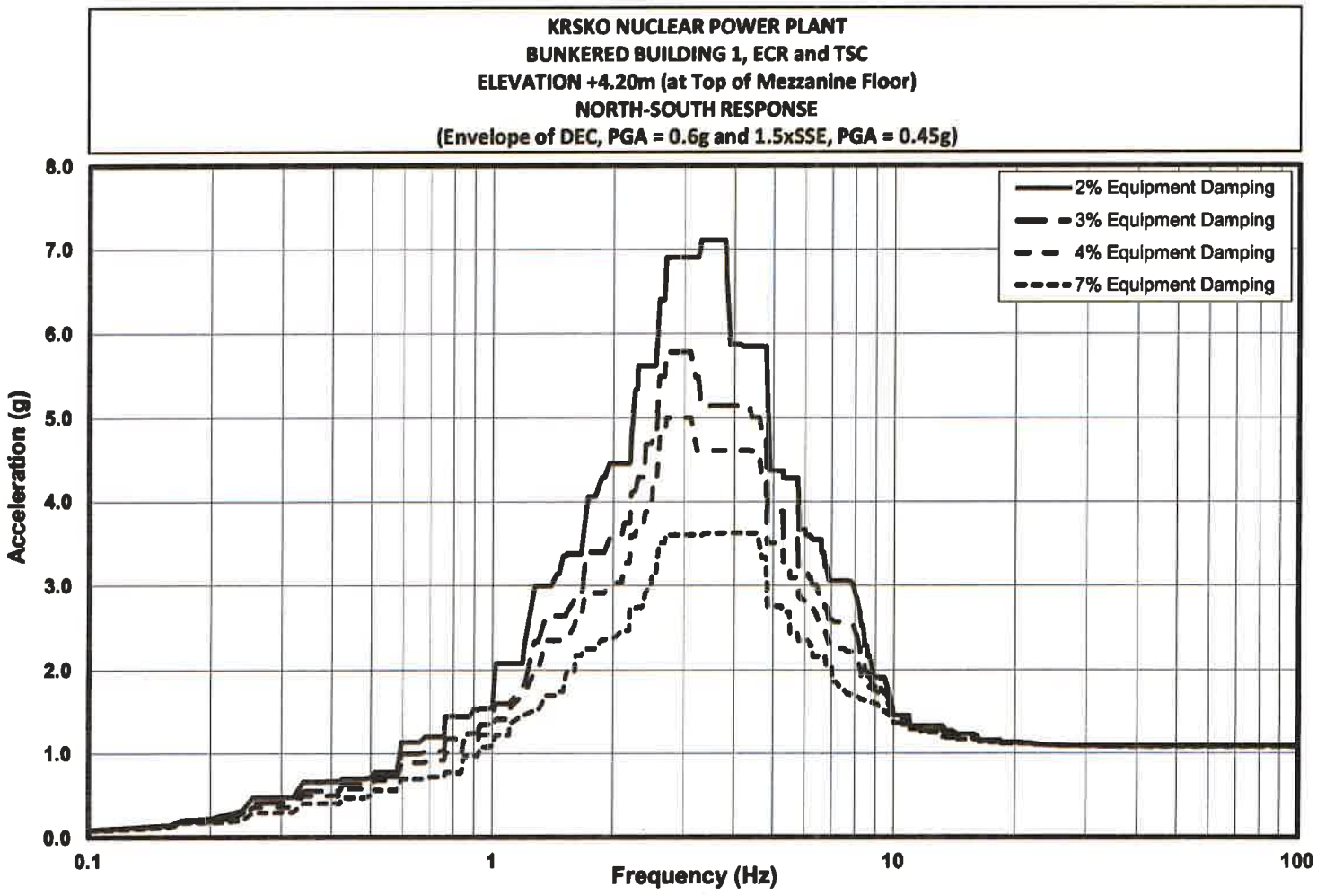

Krsko NPP
Floor Response Spectra
BB1, Elev +4.20M at Top of Mezz. Floor
ECR and TSC
North - South Response (SSE)
2% Equipment Damping
3% Equipment Damping
4% Equipment Damping
7% Equipment Damping
Acceleration (g)
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
0.10
1.00
10.00
100.00
Frequency (Hz)

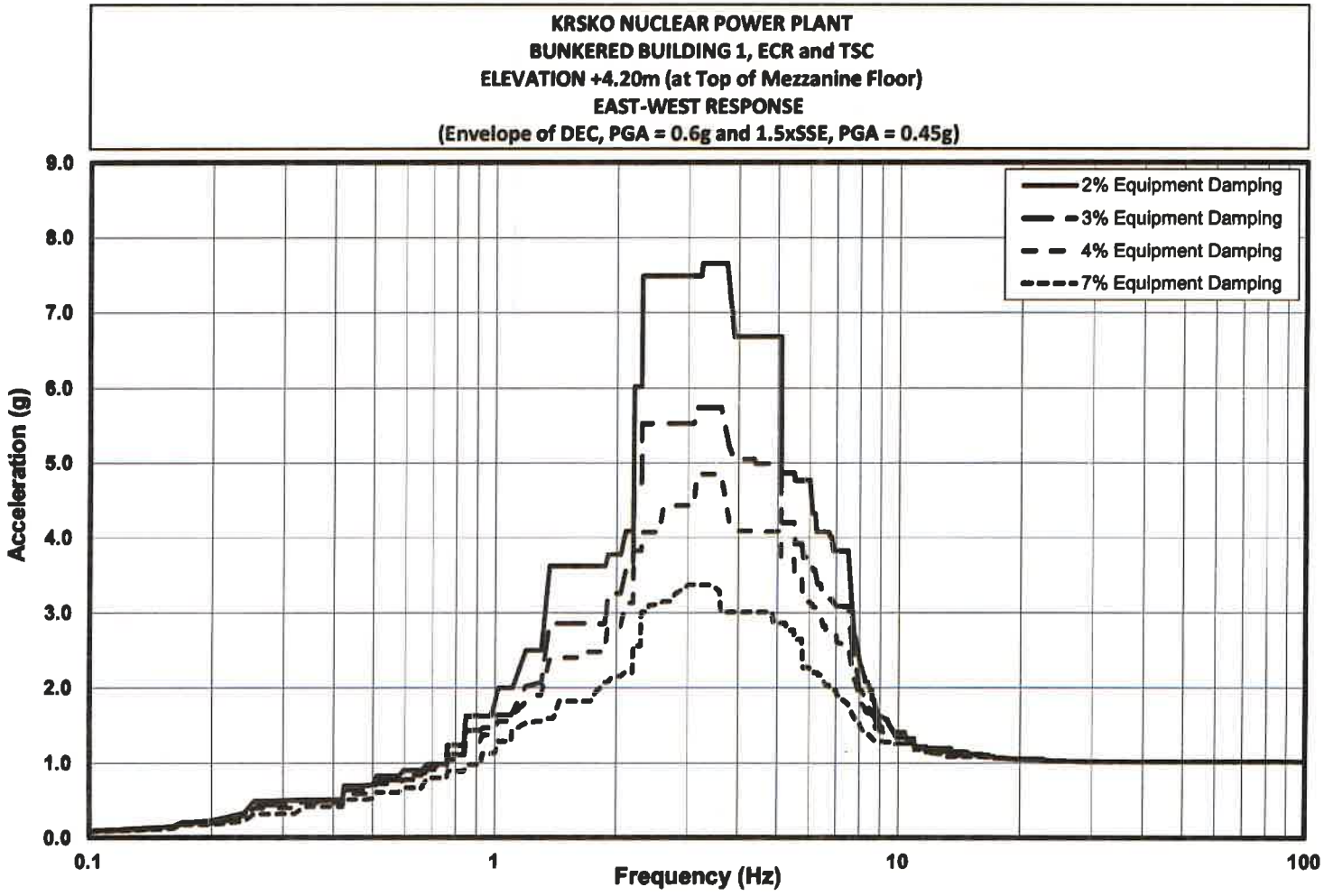

Krsko NPP
Floor Response Spectra
BB1, Elev +4.20M at Top of Mezz. Floor
ECR and TSC
East - West Response (OBE)
1% Equipment Damping
2% Equipment Damping
4% Equipment Damping
Acceleration (g)
Frequency (Hz)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
0.10
1.00
10.00
100.00

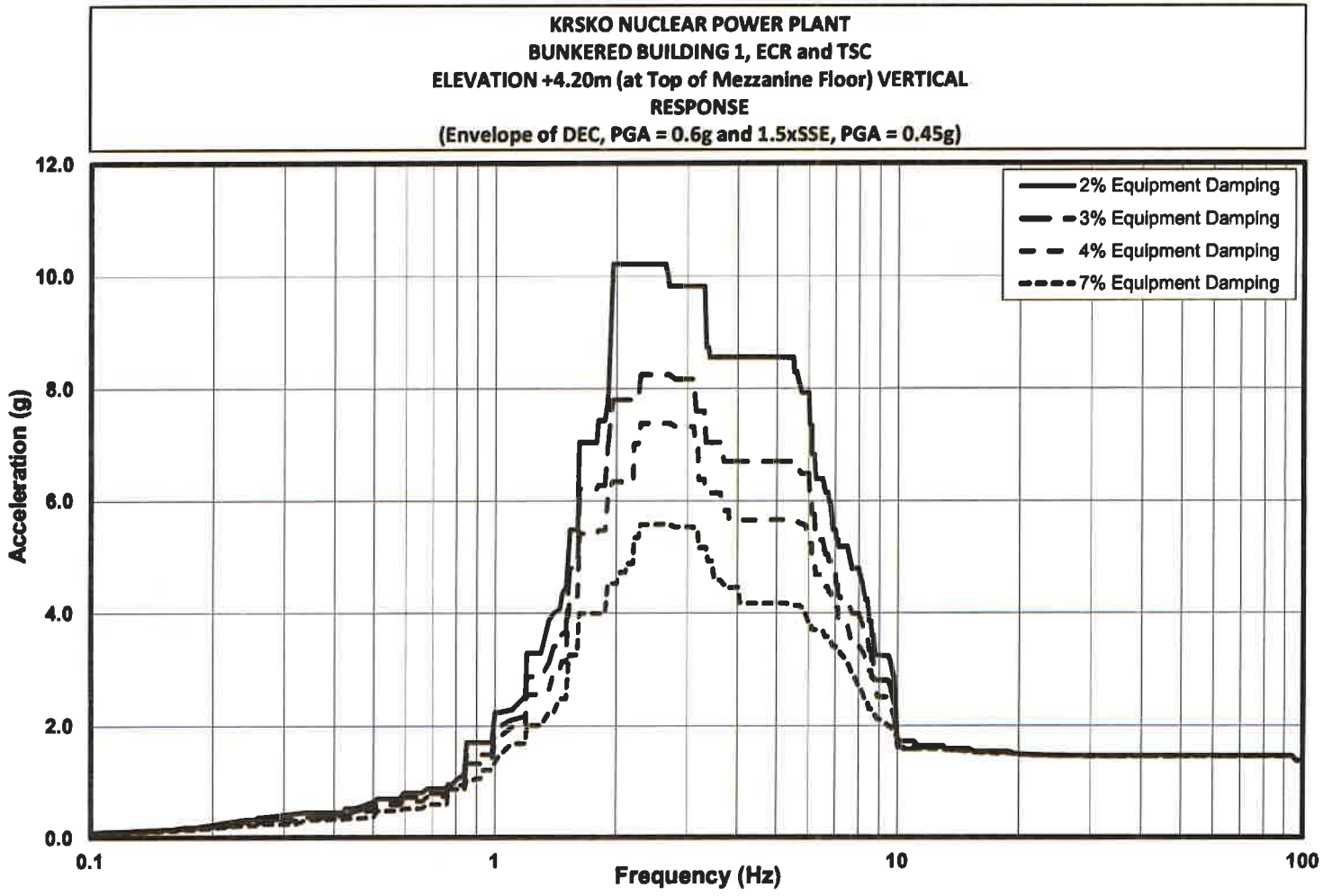

Krsko NPP
Floor Response Spectra
BB1, Elev +4.20M at Top of Mezz. Floor
ECR and TSC
East - West Response (SSE)
2% Equipment Damping
3% Equipment Damping
4% Equipment Damping
7% Equipment Damping
Acceleration (g)
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
0.10
1.00
10.00
100.00
Frequency (Hz)


Krsko NPP
Floor Response Spectra
BB1, Elev +4.20M at Top of Mezz. Floor
ECR and TSC
Vertical Response (OBE)
1% Equipment Damping
2% Equipment Damping
4% Equipment Damping
Acceleration (g)
6.0
5.0
4.0
3.0
2.0
1.0
0.0
0.10
1.00
10.00
100.00
Frequency (Hz)


Krsko NPP
Floor Response Spectra
BB1, Elev +4.20M at Top of Mezz. Floor
ECR and TSC
Vertical Response (SSE)
2% Equipment Damping
3% Equipment Damping
4% Equipment Damping
7 % Equipment Damping
Acceleration (g)
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
0.10
1.00
10.00
100.00
Frequency (Hz)


KRSKO NUCLEAR POWER PLANT
BUNKERED BUILDING 1, ECR and TSC
ELEVATION +4.20m (at Top of Mezzanine Floor)
NORTH-SOUTH RESPONSE
(Envelope of DEC, PGA = 0.6g and 1.5xSSE, PGA = 0.45g)
2% Equipment Damping
3% Equipment Damping
4% Equipment Damping
7% Equipment Damping
Acceleration (g)
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
0.1
1
10
100
Frequency (Hz)


KRSKO NUCLEAR POWER PLANT
BUNKERED BUILDING 1, ECR and TSC
ELEVATION +4.20m (at Top of Mezzanine Floor)
EAST-WEST RESPONSE
(Envelope of DEC, PGA = 0.6g and 1.5xSSE, PGA = 0.45g)
2% Equipment Damping
3% Equipment Damping
4% Equipment Damping
7% Equipment Damping
Acceleration (g)
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
0.1
1
10
100
Frequency (Hz)


KRSKO NUCLEAR POWER PLANT
BUNKERED BUILDING 1, ECR and TSC
ELEVATION +4.20m (at Top of Mezzanine Floor) VERTICAL
RESPONSE
(Envelope of DEC, PGA = 0.6g and 1.5xSSE, PGA = 0.45g)
2% Equipment Damping
3% Equipment Damping
4% Equipment Damping
7% Equipment Damping
Acceleration (g)
12.0
10.0
8.0
6.0
4.0
2.0
0.0
0.1
1
10
100
Frequency (Hz)