

1. Equipment Information			
Plant No. / System / SEL No.		NPP	1
Equipment	ID / Type	33521 Pump	
	Description	Primary Heat Transport Pump	
Equipment Location		Building	Elevation
		Reactor Building	117.45 m (80'-9")
		Area / Room	R504

## 2. Seismic Input

Direction	Horizontal Direction	Vertical Direction
Design Earthquake / PGA	CSA / 0.2g	CSA / 0.13g
Reference Earthquake / PGA	NUREG/CR-0098 / 0.3g	NUREG/CR-0098 / 0.3g

## 3. Seismic Fragility Analysis

Seismic Qualification Method :	Analysis		
Factor and Variable	F	$\beta_R$	$\beta_U$
Equipment Capacity			
- Strength	2.33	0.00	0.06
- Inelastic Energy Absortion	1.00	0.00	0.00
Equipment Response			
- Qualification Method	1.00	0.00	0.00
- Damping	1.34	0.00	0.17
- Modeling	1.00	0.00	0.22
- Mode Combination	1.00	0.10	0.00
- Earthquake Component Comb.	1.00	0.18	0.00
Structure Response			
- Ground Motion	1.00	0.10	0.00
- Damping	1.00	0.00	0.15
- Modeling	1.00	0.00	0.10
- Time History Phasing	1.00	0.00	0.05
- Mode Combination	1.00	0.15	0.00
- Foundation-Structure Interaction	1.00	0.00	0.05
Fragility Parameters			
	g	$\beta_R$	$\beta_U$
Median Capacity	0.93	0.27	0.34
HCLPF / Failure Mode	0.34	Structural	

## 4. Remark

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