



Project Name	EPS Flood Hazard Mitigation	Page	1	Of	1
Project #	326047	Sheet #			
Subject	Flood Wall Displacement	Date	2/11/15		
Calculated by	NMB	Date			
Checked by		Date			

Flood Wall Elevation = 23 ft.

Flood Wall Enclosed Area = 31,070.53 ft²

EPS Building and Walkway Area = 5,380.50 ft²

Generator Building Area = 2,468.02 ft²

Generator Building Concrete Slab at Elevation 10.9 Area = 893.25 ft²

Grade Elevation Area = 31,070.53 ft² + 5,380.50 ft² + 2,468.02 ft² + 893.25 ft² = 22,328.76 ft²

Assume EPS and Generator Building at Elevation > 23 ft. -

Average Grade Elevation = 6.7 ft. -

Displacement Volumes:

Above Generator Building Concrete Slab = 893.25 ft² * (23-10.9 ft) = 10,808.33 ft³

Above Grade = 22,328.76 ft² * (23-6.7 ft.) = 363,958.79 ft³

TOTAL DISPLACEMENT VOLUME = 363,958.79 ft³ + 10,808.33 ft³ = 374,767.11 ft³