BUILDING REPORT

1) UC Campus: Los Angeles
2) Building Name: Engineering IV - Hazardous Gas Storage Facility
3) Building CAAN ID: 
4) Auxiliary Building ID: 4256A.1
5) Date of Evaluation: 9/14/2020
6) Evaluation by: Englekirk, TAS/FS
7) Seismic Performance Rating and Basis of Rating: III, ASCE 41-17 Tier 1

8) Plan Image or Aerial Photo
9) Exterior Elevation Photo

10) Site Location
    (a) Latitude Decimal Coordinates: 34.0687997
    (b) Longitude Decimal Coordinates: -118.4440275
11) ASCE 41-17 Model Building Type and Description
    (a) Longitudinal Direction: C2 and C2a: Reinforced concrete shear walls
    (b) Transverse Direction: C2 and C2a: Reinforced concrete shear walls
12) Number of Stories
    (a) Above grade: 1
    (b) Below grade: 0
14) Retrofit Building Design Code & Year (if applicable):
15) Cost Range to Retrofit (if applicable): (Low, Medium, High or Very High): Low

Comments: Walls experience low seismic shear stresses per the Tier 1 check. The building has a very regular geometry, with small isolated openings. No strengthening measures are anticipated.
BACKGROUND INFORMATION

Site Information
16) Site Class (A – F) and Basis of Assessment
   (a) Site Class: D
   (b) Site Class Basis: Unknown (Default)
   (c) Site Class Company: None
   (d) Site Class Report Date: None
   (e) Site Class Ref Page No.: None

17) Geologic Hazards
   (a) Fault Rupture (Yes, No or Unknown) and Basis of Assessment: No, CGS Maps
   (b) Liquefaction (Yes, No or Unknown) and Basis of Assessment: No
   (c) Landslide (Yes, No or Unknown) and Basis of Assessment: No

18) Site-specific Ground Motion Study? (Yes or No) 
No

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<th>Seismic design acceleration parameters of interest:</th>
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<td>For BSE-1N</td>
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<td>For BSE-1E</td>
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19) Estimated Fundamental Period (seconds)
   (a) Longitudinal: 0.152
   (b) Transverse: 0.152

20) Falling Hazards Assessment Summary: No deficiency noted

21) Structural Non-Compliances/Findings Significantly Affecting Rating Determination Summary
Significant Structural Deficiencies, Potentially Affecting Seismic Performance Rating Designation:

   (a) Lateral System Stress Check (wall shear, column shear or flexure, or brace axial as applicable): No deficiency noted
   (b) Load Path: No deficiency noted
   (c) Adjacent Buildings: No deficiency noted
   (d) Weak Story: No deficiency noted
   (e) Soft Story: No deficiency noted
   (f) Geometry (vertical irregularities): No deficiency noted
   (g) Torsion: No deficiency noted
   (h) Mass – Vertical Irregularity: No deficiency noted
   (i) Cripple Walls: No deficiency noted
   (j) Wood Sills (bolting): Not Applicable
   (k) Diaphragm Continuity: No deficiency noted
   (l) Openings at Shear Walls (concrete or masonry): No deficiency noted
   (m) Liquefaction: No
   (n) Slope Failure: No
(o) Surface Fault Rupture: No
(p) Masonry or Concrete Wall Anchorage at Flexible Diaphragm: Not Applicable
(q) URM wall height to thickness ratio: Not Applicable
(r) URM Parapets or Cornices: Not Applicable
(s) URM Chimney: Not Applicable
(t) Heavy Partitions Braced by Ceilings: Not Applicable
(u) Appendages: No deficiency noted

22) Brief Description of Anticipated Failure Mechanism
Shear or flexural failure in concrete shearwalls. Diaphragm overstress due to high shear demands.

23) Seismic Retrofit Concept Sketches/Description (only required for buildings rated V or worse)
None recommended.

Building Report Appendices
A) ASCE 41-17 Tier 1 Checklists (Structural only)

B) Quick Check Calculations