

Facility Name _____ Address _____ Co-City-Vic _____ Mo/Day/Yr ____/____/____ Time _____ <span style="margin-left: 350px;">use 24 hr.</span> Type of Disaster _____	SAP ID #s. _____ Other Reports _____ No. Photos ____ No. Sketches ____ Ref. Dwgs. _____ Est. Damage % _____ Facility Status <span style="border: 1px solid black; display: inline-block; width: 100px; height: 20px; vertical-align: middle;"></span>
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**SAFETY INSTRUCTIONS:** The possibility of toxic gases in confined spaces or of fuel leaks should be recognized as a potential hazard.

**CAUTION:** The primary purpose of the report is to advise of the condition of the facility for immediate continued use/occupancy. REINSPECTION OF THE FACILITY IS RECOMMENDED. AFTERSHOCKS MAY CAUSE DAMAGE THAT REQUIRES REINSPECTION. The conclusions reached by engineers who re-examine the facility later should take precedence. The assessment team will not render further advice in the event of conflict of engineering recommendations.

**A. CONDITION:**

Existing: None  Recommended: Green  Posted at this assessment: Yes   
 Green  Yellow  No   
 Yellow  Red   
 Red

**B. RECOMMENDATIONS**

Monitor _____ <input type="radio"/>	Continue in service, repair ASAP _____ <input type="radio"/>
Remove from service _____ <input type="radio"/>	Drain and repair _____ <input type="radio"/>
Continue in service _____ <input type="radio"/>	Lower water level and continue service _____ <input type="radio"/>
	_____ ft
_____	_____
_____	_____
_____	_____

**C. COMMENTS**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Facility Name \_\_\_\_\_ SAP ID #s \_\_\_\_\_

**STEEL RESERVOIR**

**D. RESERVOIR DESCRIPTION**

Capacity \_\_\_\_\_ MG Wall Height \_\_\_\_\_ ft O/S Diameter \_\_\_\_\_ ft

Roof Type  Wood  Steel  Flat  Conical  Knuckled Edge

Shell  Welded  Bolted  Riveted

Floor support  Footing ring  Oiled sand  A.C.  Other \_\_\_\_\_

Footing  Concrete ring  Other \_\_\_\_\_  None

Pipe connection  Rigid  Flexible

Anchorage to foundation \_\_\_\_\_ Dia. \_\_\_\_\_ Spacing

**DAMAGE OBSERVED (D.O.)**

	0	1	2-3-4	5	6	NA	NO
Damage Scale:	None	Slight	Moderate	Severe	Total	Not	Not
	(0%)	(1-10%)	(11 - 40%)	(41 - 60%)	(over 60%)	Applicable	Observed

**E. SHELL**

D.O.

- \_\_\_\_\_ Elephant's foot
  - a. Height \_\_\_\_\_ ft
  - b. Circumferential extent \_\_\_\_\_ ft
- \_\_\_\_\_ Other buckling
- \_\_\_\_\_ Horizontal joints broken
- \_\_\_\_\_ Vertical joints broken
- \_\_\_\_\_ Plate split
- \_\_\_\_\_ Seismic anchors
- \_\_\_\_\_ Rocking of reservoir evidenced
- \_\_\_\_\_ Sliding of reservoir evidenced
- \_\_\_\_\_ Leaks evident. Rate \_\_\_\_\_ gpm
- \_\_\_\_\_ Unexplained wet spots on adjacent ground
- \_\_\_\_\_ Shell penetrations damaged
- \_\_\_\_\_ Other attachments to shell damaged
- \_\_\_\_\_ Pipe Connections to Tank

**F. VALVE PIT**

D.O.

- \_\_\_\_\_ Access
- \_\_\_\_\_ Control Piping
- \_\_\_\_\_ Gauges
- \_\_\_\_\_ Hatches
- \_\_\_\_\_ Inlet-outlet piping
- \_\_\_\_\_ Pit flooded
- \_\_\_\_\_ Roof
- \_\_\_\_\_ Walls
- \_\_\_\_\_ Charts
- \_\_\_\_\_ Valves

**G. \_\_\_\_\_ Roof**

**H. \_\_\_\_\_ Footing**

**I. \_\_\_\_\_ Floor**

**J. \_\_\_\_\_ Aboveground Piping**

**K. \_\_\_\_\_ Underground Piping**

**L. REMARKS** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Facility Name \_\_\_\_\_ SAP ID #s \_\_\_\_\_

**PRESTRESSED CONCRETE RESERVOIR**

**M. RESERVOIR DESCRIPTION:**

Wire or Strand Wrapped  <b>TENDONS:</b> <input type="radio"/> 220 ksi - 0.142" or 0.172" dia <input type="radio"/> 270 ksi - 3/8" dia <b>WALL CONSTRUCTION:</b> <input type="radio"/> Cast-in-place <input type="radio"/> Shotcrete <input type="radio"/> Shotcrete w/ steel diaphragm <input type="radio"/> Precast <input type="radio"/> Precast w/ steel diaphragm	Buttress Type using individual Tendons, usually inside wall  <input type="radio"/> Strands <input type="radio"/> Wires <input type="radio"/> Bars  <input type="radio"/> Cast-in-place <input type="radio"/> Precast	Bar Tendons on Tank Surface  <input type="radio"/> Bars with prop. couplers  <input type="radio"/> Cast-in-place <input type="radio"/> Shotcrete
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**TENDON PROTECTION SYSTEMS:**

- Shotcrete                       Corrosion inhibiting grease                       Galvanizing protected by plastic sheath  
 Grout

**Tank Restraints**    Seismic cables    Curb (restraining sliding)

Capacity \_\_\_\_\_ MG   Wall height \_\_\_\_\_ ft   O/S diameter \_\_\_\_\_ ft

Roof Type:    Flat    Dome   Exposed    Fill depth \_\_\_\_\_   Surface usage \_\_\_\_\_

Yes  No

**DAMAGE OBSERVED (D.O.)**

	0	1	2-3-4	5	6	NA	NO
Damage Scale:	None	Slight	Moderate	Severe	Total	Not	Not
	(0%)	(1-10%)	(11 - 40%)	(41 - 60%)	(over 60%)	Applicable	Observed

**N. SHELL**

- D.O.
- \_\_\_\_\_ Shell or shotcrete cracked
  - \_\_\_\_\_ Vertical cracks more than 2 feet long
  - \_\_\_\_\_ Unexplained excessive loss of contents
  - \_\_\_\_\_ Bulging observable
  - \_\_\_\_\_ Visible construction joints
  - \_\_\_\_\_ Wall leaking
  - \_\_\_\_\_ Wet spots
  - \_\_\_\_\_ Spouts
  - \_\_\_\_\_ Horizontal cracks more than 25% of perimeter
  - \_\_\_\_\_ Corrosion at horizontal cracks
  - \_\_\_\_\_ Shotcrete delaminated at cracks
  - \_\_\_\_\_ Attachments to shell loose

**O. HORIZONTAL PRESTRESSING**

- D.O.
1. Wrapping:
    - \_\_\_\_\_ Corrosion
    - \_\_\_\_\_ Corrosion at horizontal cracks
  2. Individual tendons:
    - \_\_\_\_\_ Corrosion products
    - \_\_\_\_\_ Leaks @ tendon locations
    - \_\_\_\_\_ Leaks @ tendon anchorages
    - \_\_\_\_\_ Tendon anchorage distressed
    - \_\_\_\_\_ Tendon anchorage disrupted/loose
    - \_\_\_\_\_ Cracking in vicinity of tendon anchorage
    - \_\_\_\_\_ Tendon location visually observable
    - \_\_\_\_\_ Discoloration of concrete in line w/tendons

Facility Name \_\_\_\_\_ SAP ID #s \_\_\_\_\_

- \_\_\_\_\_ Leaks @ rust stains
- \_\_\_\_\_ Major leaks at shell/foundation joint
- \_\_\_\_\_ Unexplained wet spots on adjacent ground
- \_\_\_\_\_ Corrosion at manholes/other penetrations
- \_\_\_\_\_ Leakage rate \_\_\_\_\_ gpm
- 3. Bar tendons on surface:
  - \_\_\_\_\_ Tendons failed
  - \_\_\_\_\_ Tendons sound loose
  - \_\_\_\_\_ Evidence of rust

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**P. ROOF**

- D.O.
- Flat or conical
    - \_\_\_\_\_ Displaced with respect to wall
    - \_\_\_\_\_ Sagging
    - \_\_\_\_\_ Cracked at edges
    - \_\_\_\_\_ Cracked at interior supports
    - \_\_\_\_\_ Supporting column spalled
  - Dome Shell
    - Shotcrete     CIP concrete
    - Precast concrete
    - \_\_\_\_\_ Construction joints
    - \_\_\_\_\_ Cracks
      - Show reinforcement/corrosion
      - Increasing with time
    - \_\_\_\_\_ Delaminating
    - \_\_\_\_\_ Misalignment of surface
    - \_\_\_\_\_ Rust lines @ top of soffit over rebars
    - \_\_\_\_\_ Dome Ring
    - \_\_\_\_\_ Corrosion
    - \_\_\_\_\_ Distress @ shell/ring juncture
    - \_\_\_\_\_ Shotcrete loose/hollow-sounding
    - \_\_\_\_\_ Vertical cracks
    - \_\_\_\_\_ Wire (strand) exposed/corroded

D.O.

**Q. \_\_\_\_\_ FOOTING**

**R. \_\_\_\_\_ FLOOR**

**S. \_\_\_\_\_ ABOVEGROUND PIPING**

**T. VALVE PIT**

- \_\_\_\_\_ Access
- \_\_\_\_\_ Control piping
- \_\_\_\_\_ Gauges
- \_\_\_\_\_ Hatches (equipment)
- \_\_\_\_\_ Inlet-outlet piping
- \_\_\_\_\_ Pit flooded (depth \_\_\_\_\_ ft)
- \_\_\_\_\_ Roof
- \_\_\_\_\_ Walls
- \_\_\_\_\_ Charts
- \_\_\_\_\_ Valves

**U. REMARKS**

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