

Facility Name _____	SAP ID #s. _____
Address _____	Other Reports _____
Co-City-Vic _____	No. Photos _____ No. Sketches _____
Mo/Day/Yr _____/_____/_____ Time _____ use 24 hr.	Ref. Dwgs. _____
Type of Disaster _____	Est. Damage % _____
	Facility Status

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 _____ Continue in service, repair ASAP _____
Remove from service _____ Drain and repair _____
Continue in service _____ Lower water level and continue service _____
_____ 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.)

Damage Scale:	0 None (0%)	1 Slight (1-10%)	2-3-4 Moderate (11 - 40%)	5 Severe (41 - 60%)	6 Total (over 60%)	NA Not Applicable	NO Not 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 TENDONS: <input type="radio"/> 220 ksi - 0.142" or 0.172" dia <input type="radio"/> 270 ksi - 3/8" dia WALL CONSTRUCTION: <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
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------

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

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

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
