

Buoyancy Recovery in AST Pontoon Leaks

By

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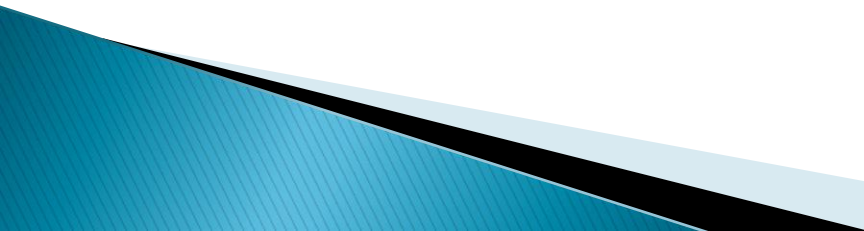
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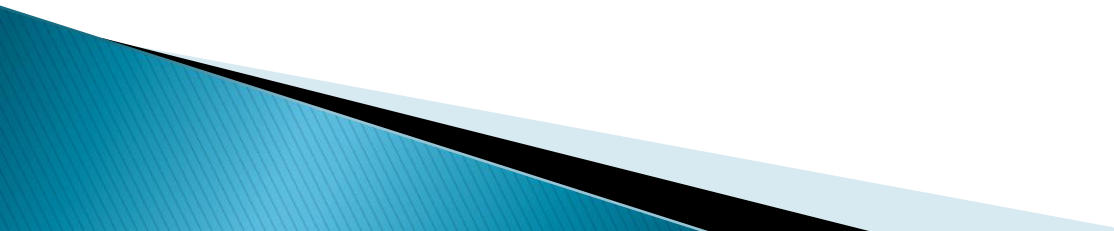
Options & Guidelines

- ▶ Drain, Clean & Gas Free Tank.
 - Costs are very high.
 - Total Cleaning & gas Freeing required for hot work.
 - Long down-time seriously impedes operation.
 - Advantage: Highly effective and long life after repair is complete.

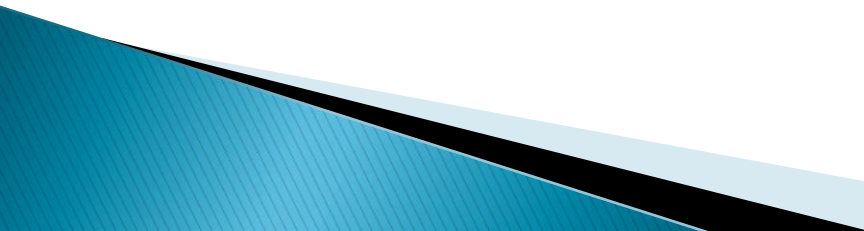
Other Repair Alternatives

- ▶ Repair Life Requirements.
 - ▶ Repair Cost.
 - ▶ Ease of Installation / Damage to Patchwork results in delay of installation.
 - ▶ Structure Design Independent.
 - ▶ Possibility of re-use.
 - ▶ Can fix be accomplished by refinery / terminal's personnel?
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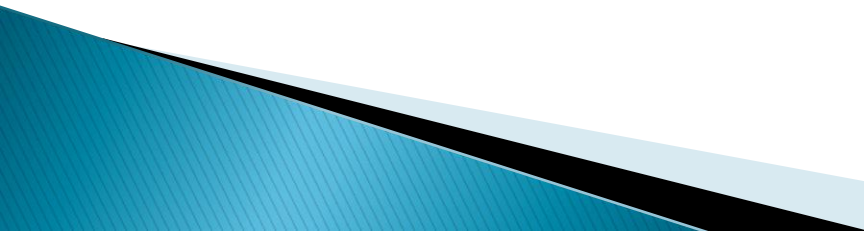
Disposal of Pontoon Fix

- ▶ Can Material be removed, washed and re-used?
 - ▶ Is material being removed HAZMAT? If so, can it be crushed to reduce disposal cost?
 - ▶ Does pontoon/tank have to be destroyed for fix removal?
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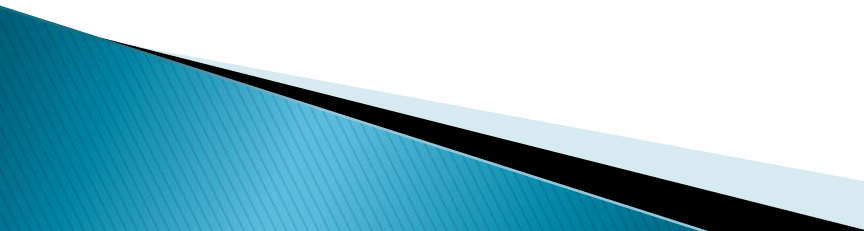
Other Concerns

- ▶ Slow leak allows for easier installation.
 - ▶ Material to fix pontoons generally can not displace product in pontoon.
 - ▶ Timely installation of material.
 - ▶ Storage of material in Refinery / Terminal.
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Buoyancy Recovery Spheres

- ▶ Spheres Gravity fed through man way hatch.
 - ▶ Can be washed and reused.
 - ▶ Flushed out of Pontoon, pontoon is not destroyed for removal.
 - ▶ If one sphere is damaged in installation, it does not disrupt procedure.
 - ▶ “Emergency Response Program” whereby Spheres are stored in Refinery/Terminal and purchased by company when taken out of warehouse for use.
 - ▶ Spheres made of material compatible with product in tank.
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Checklist

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|--|-----|----|
| ▶ Can it be done with tank in service? | Yes | No |
| ▶ Has a low purchase cost / Can it be re-used? | Yes | No |
| ▶ Does not require pontoon to be destroyed for removal? | Yes | No |
| ▶ Can it be installed with company's own personnel? | Yes | No |
| ▶ Is fix "pontoons structure" independent? | Yes | No |
| ▶ If fix is damaged during installation, can a replacement be available immediately? | Yes | No |
| ▶ Does supplier allow refinery in house storage for quick repair? | Yes | No |
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- ▶ If the response is "No" to any of the above, the refinery/terminal should probably not use the offered patch to fix the pontoon.
 - ▶ Buoyancy Recovery Spheres is the only industry solution that is a "YES" to all of the above.
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