



**Test and Inspection Report
For TC(MC)331 tanks**

Form Number: NEE-FRM-007-331

Revision: 1

Facility Name: National Energy Equipment Inc.
Address: _____

TEST DATE: _____

Telephone: _____ Fax: _____

Facility Registration No.: 25- _____

Tank Owner: _____

Address: _____

Telephone: _____

OWNERS UNIT No: _____ SERIAL No.: _____

MANUFACTURER: _____ MAWP: _____

CERT. DATE: _____ MATERIAL: _____ TANK SPEC: _____

It is constructed of quenched and tempered steel (QT) or other than quenched and tempered steel (NQT)

COMP. CAPACITY 1 _____ IG/L 2 _____ IG/L 3 _____ IG/L
4 _____ IG/L 5 _____ IG/L 6 _____ IG/L

EXTERNAL VISUAL INSPECTION "V"

<u>Item inspected</u>	QC Man. Ref.	Complies	Reject	Retest Complies
Data plate and other markings, present and legible	12.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shell & Heads corrosion, abrasion, dents, overlay patches, leaks, defect welds, loose bolts and nuts on any flanged/blank connection, etc.	12.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structural members, outriggers, cross members etc.	12.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Piping and valves for leakage, damage, corrosion	12.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Remote closures, thermal devices	12.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hoses for defects, identification and test dates	12.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tank attachments to frame or running gear, elements of the UC assembly area that can be inspected without dismantling	12.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inspect underneath tank for dents, corrosion, leaks, cracks on outriggers / cross members, make sure voids are not capped, pipes for dents/rubbing, hydraulics, excessive play in PTO shaft (check or shear section on Outlet valve)	12.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inspect on top of tank for dents, corrosion, fall protection functions (if equipped), anti-slip grating insecure or wearing tank, obvious signs of leakage,	12.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All switches and valves, work properly	12.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ladders, walkways, trop of the tank, and etc.	12.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fill covers, manways and closure devices, are operative and leaktight	12.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Relief valves and vents inspected and properly operative (replace or test if tank in service where lading corrosive to relief device)	12.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Accident damage protection	12.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Inspector _____ Signature _____ Date _____ After Retest Signature _____
and Date _____

Note: Rejection Criteria for External Visual Inspections

- Less than minimum material thickness under any cut, dig or gouge
- Any dent with a depth greater than 1/2" where it includes a weld
- Any dent with a depth greater than 10% of the length of the dent
- Any weld defect including a crack, pinhole, or incomplete fusion of the weld
- Any structural defect
- Any source of leakage
- Any repairs made to liquid-retaining components using overlay patches
- Defective, unidentified or out of test Hose Assemblies



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TEST OF EMERGENCY DISCHARGE CONTROL

<u>Item inspected</u>	QC Man. Ref.	Complies	Reject	Retest Complies
Have Emergency discharge controls, except designed to transport Class 2.2, non-flammable and non-toxic gases.	12.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
For tanks with more than 13,250L capacity, inspect and test off-truck emergency shut down system and either 'a monitoring feature' or 'a passive emergency shutdown system', For tanks that are 13,250L or less, inspect and test off-truck emergency shutdown system. With product running at normal flow rate throughout the metering system, activate the off-truck Emergency shutdown system. The meter should stop the flow and close the internal self closing (ISC) valve within 30 seconds or sooner. No meter creep after 5 seconds. The same process shall be used on both ON and OFF truck applications. For non-metered tanks, all internal self closing (ISC) valves shall be open. Each emergency discharge control remote actuator (on- truck and off truck) shall be operated to ensure each ISC valve indicator has moved to the closed position. Once all ISC valves are closed, all of the material in the downstream piping shall be evacuated, and the piping shall be returned to atmospheric temperature and pressure. The outlet shall then be monitored for 30 seconds to ensure that there is no detectable leakage.	12.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
When the Emergency shutdown has been activated, the ISC cannot be reactivated remotely.	12.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The emergency shut down system shall function reliably at a distance of 46 m (150ft).	12.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Tank tester _____ Signature _____ Date _____ After Retest Signature and Date _____

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Fax: _____

Facility Registration No. **25-**_____

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Address: _____

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OWNERS UNIT No: _____

SERIAL No. _____

MANUFACTURER: _____

MAWP: _____

CERT. DATE: _____

MATERIAL: _____

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LEAKAGE TEST "K" (QC Manual Reference 12.5)

TEST PRESSURE _____ (80% of MAWP MIN) TEST MEDIUM _____

The test pressure shall be the maximum normal operating pressure of the tank and no less than 60 PSI

Item Tested	Pass	Fail	Retest Complies	Item Tested	Pass	Fail	Retest Complies
Compartment No. 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Compartment No. 1 piping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Compartment No. 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Compartment No. 2 piping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Compartment No. 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Compartment No. 3 piping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Compartment No. 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Compartment No. 4 piping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Compartment No. 5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Compartment No. 5 piping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Compartment No. 6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Compartment No. 6 piping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Tank tester _____ Signature _____

Date _____ After Retest Signature _____
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COMP. CAPACITY 1 _____ IG/L

2 _____ IG/L

3 _____ IG/L

4 _____ IG/L

4 _____ IG/L

5 _____ IG/L

6 _____ IG/L

_____ IG/L

_____ IG/L

INSPECTION AND TEST CONCLUSION:

TESTS PERFORMED

"V"

"K"

No defect or damage was discovered on tank

YES

NO

Description of the location, nature, and severity of damage or defects found, how they were discovered, and the nature of any fixing or replacement, and the results of any subsequent test or inspection

Tank successfully retested after fixing

YES

NO

N/A

Expired Inspection Markings removed

YES

NO

TANK DISPOSITION

Removed from Service

Safety Mark (Specification Indication) removed

Returned to Service

Inspection Markings applied

YES

NO

FAILED INSPECTION

PASSED INSPECTION

Inspector _____

Signature _____

Date _____