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## *Evaluation of NTI Film*

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**Project #:** 11-180-1125(bis)

**Test conducted by:**

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**Approved by:**

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**Background:** Test submitted NTI film to evaluate if it provides sufficient corrosion protection.

**Sample Received:** Yellow NTI film, received 08-24-11, good condition

**Method:**

- 1) VIA Test CC-027
- 2) Razor Blade Test CC-004
- 3) FTIR Test CC-006
- 4) Nitrite Test

**Materials:**

- 1) VIA test kit
- 2) Razor Blade test kit
- 3) Perkin Elmer Paragon 1000 Spectrophotometer
- 4) Nitrite/Nitrate test strips, Lot # HC960672

**Procedure:** The tests were conducted according to standard procedures for each test.

**Results:**

**Razor Blade Test-Carbon Steel Panels**

Sample	Panel 1	Panel 2	Panel 3
NTI Film	Pass	Pass	Pass
Control	Fail	-	-

**Razor Blade Test -Copper Panels**

Sample	Panel 1	Panel 2	Panel 3
NTI Film	Fail	Fail	Fail
Control	Fail	-	-

**VIA Test**

Sample	Plug #1	Plug #2	Plug #3
NTI Film	Grade 2	Grade 2	Grade 2
Control	Grade 0	-	-

Note: The VIA grading system is attached to the end of the report.

**Nitrite Test**

Sample	Result
NTI Film	Contains Nitrite

**Interpretations:**

1. The NTI film was found to be heavily nitrite based.
2. Based on the test results the NTI film provides corrosion protection for steel, but doesn't provide multimetal protection (failed copper).

