104 Hidden Lake Circle
Duncan, SC 29334 USA
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MECHANICAL TEST SUMMARY

August 31, 2016

Test Name: Tensile Testing for B11782-WNT-ACCC samples

Test Dates: August 11, 2016

Manufacturer: AFL

Test Facility: AFL Telecommunications
Conductor Accessories Division
104 Hidden Lake Circle
Duncan, SC, 29334

Test Sample Designation: B11782-WNT-ACCC

Test Specification: ANSI C119.4

Conductor Size: Grosbeak ACCC

Conductor Diameter: 0.982 inches

Conductor Rated Breaking Strength: 30,395 lbs.

AFL Staff: Gerald Hoard, Matt Welborn

Customer: Entergy/CTC

Reference Test Request No.: 00199

Test No: 00199C

Report No.: R160831A

ABSTRACT

Four deadend assemblies were tensile tested successfully on Grosbeak ACCC conductor.

OBJECTIVE

To determine if a load of 28,875 lbs. or greater can be achieved with the complete deadend assembly compressed onto Grosbeak ACCC conductor.

SAMPLE INFORMATION

The test sample assembly catalog number was B11782-WNT-ACCC.

TEST SETUP AND PROCEDURE

1. Prepare each end of a 15ft sample of Grosbeak ACCC conductor and clean the core with alcohol.
2. Compress the eye/ sleeve assembly onto the core.
3. Compress the aluminum deadend body on the eye on each end of the conductor sample.
4. Install the complete test assembly into the Horizontal Tensile Tester
5. Apply an initial preload of 500 lbs. to remove slack from the assembly.
6. Increase load until failure occurs.

A picture of one sample in the general test setup is shown below.

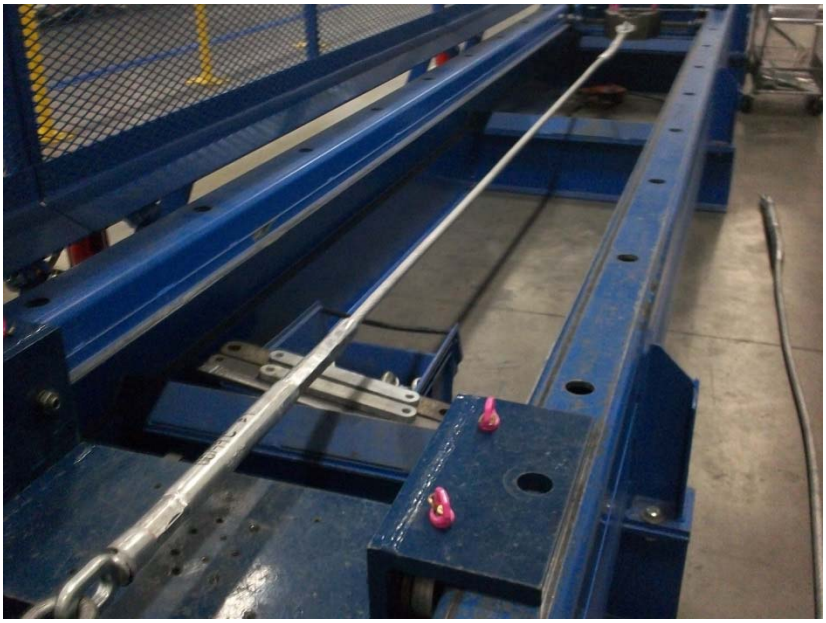

Figure 1 - Test Setup

ACCEPTANCE CRITERIA

Acceptable minimum failure loads are 95% of Grosbeak ACCC rated breaking strength which is 28,875 lbs.

RESULTS

The results of the testing are shown below.

Table 1 – Results

Sample No.	Maximum Load Achieved (lbs.)	Break Location	Length of conductor between fittings	% RBS
00199C-1	32,025	Complete cable mid span	13 ft	105%
00199C-2	31,732	Complete cable mid span	13 ft	104%

CONCLUSIONS

All four deadend samples tested exceeded the 30,395 lbs rated breaking strength of the Grosbeak ACCC conductor and therefore met the tensile requirement for ANSI C119.4.

PICTURES OF TESTED SAMPLES

Pictures of the samples after testing are shown below.

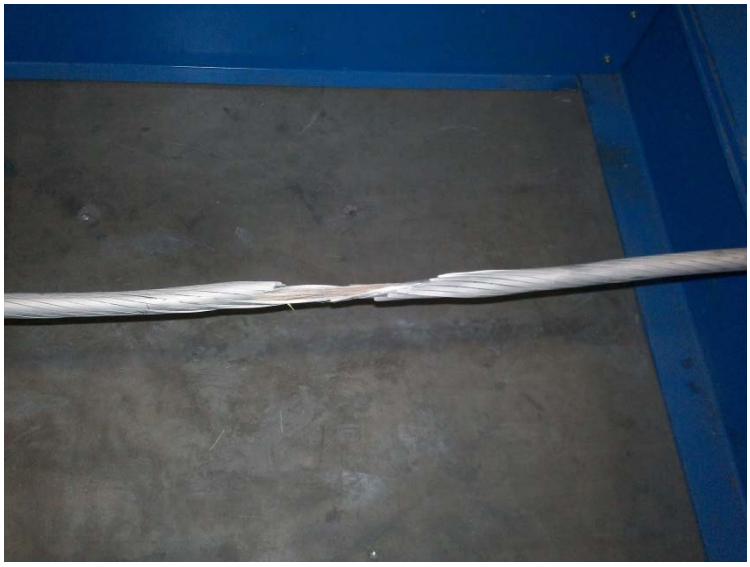

Figure 2 - Sample 2 full conductor break location

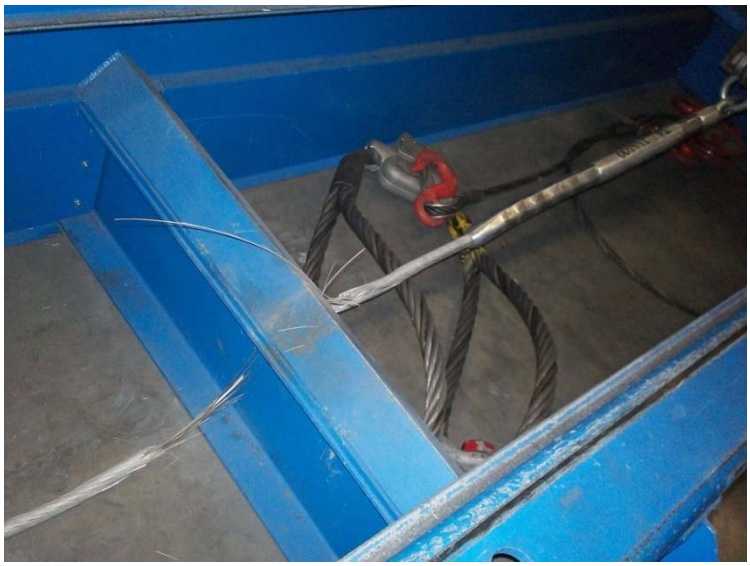

Figure 3 - Sample #2 full conductor break location

TEST EQUIPMENT

Equipment Type	Model/Serial No.	Cal. Date	Cal. Due	Rated Accuracy
Horizontal strength Tester	AJT01	8/2015	8/2016	+/- 1% of reading

TEST PERSONNEL

Technician:	Gerald Hoard
Design Engineer:	Matt Welborn
Testing Supervisor:	Curt Turner