Engineering Standard

SAES-T-637 Communications Cable Pressure Testing

28 January, 2004

Communications Standards Committee Members

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Saudi Aramco DeskTop Standards

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1 Scope

This standard prescribes compliance governing Cable Pressurization Continuous Feed Systems Pressure Testing, and it is recognized as the engineering criteria to be applied to Saudi Aramco Communication Pressurized Cable System installation.

2 Conflits and Deviations

Any deviations, providing less than the mandatory requirements of this standard require written waiver approval as per Saudi Aramco Engineering Procedure <u>SAEP-302</u>.

3 References

The selection of material and equipment and the design, construction, maintenance and repair of equipment and facilities covered by this Standard shall comply with the latest edition of the references listed below, unless otherwise noted.

1 Saudi Aramco References

<u>SAEP-302</u>

Instructions for Obtaining a Waiver of a Mandatory Saudi Aramco Engineering Requirement

2 Industry Codes and Standards

General Telephone & Electronics

GTE SEC 637 Continuous Feed Systems

4 Design

The General Telephone and Electronics (GTE) Series 637 on "Cable Pressurization Pressure Testing" is hereby recognized as Saudi Aramco Engineering Standard SAES-T-637. The following specifications refer to General Telephone and Electronics Practice GTE 637 Series, which is part of this standard.

5 Specifications

The text in each paragraph below is an addition, exception, modification, or deletion to GTE 637 as noted.

637-000-001 Issue 1, August 1986 General Description & Characteristic of Cable Pressurization in Pipe Systems

Exception:

This section is issued for informational purposes only.

Issue 1, November 1986

Cable Pressurization Pipe System Installation

Exception:

637-000-002

This section is issued for informational purposes only.

637-000-201 Model 100-F Pressure Transducer System Installation and C	Issue 1, September 1986 Dperation
Exception:	
None.	
637-020-001 Continuous Feed Systems; Definitions and Terminology	Issue 2, February 1986
Exception:	
None.	
637-025-500 Continuous Feed Systems; Pressure Testing - Precautions	Issue 3, May 1986
Exception:	
None.	
637-110-100 Pressure Testing; Pneumatic Resistance of Cables	Issue 3, August 1986
Exception:	
None.	
637-120-100 Continuous Feed Systems; Pressure Testing Concentrates, Solutions and Accessories -	Issue 5, September 1985
Exception:	Description
None.	
	Issue 3, September 1986 Cables
Exception:	
, None.	
637-125-200 (Addendum) Continuous Feed Systems; Pressure Testing Fittings - Lead	Issue 1, June 1982 Cables
Exception:	
None.	
637-125-201	Issue 4, October 1979
Pressure Testing Fittings; Stalpeth and Alpeth Cable	
Exception:	
None.	
637-130-100	Issue 3, September 1986
Continuous Feed Systems; Meter Panel Description	
Exception:	

None.	
637-135-206	Issue 4, August 1986
Continuous Feed Systems;	
Reducer, Regulator Valve and 289A 2563 Relief Valve - In	nstallation
Exception:	
None.	
637-140-100 Continuous Feed Systems; Contactors and Contactor Term	Issue 5, May 1977
Exception:	mais
This section is issued for informational purposes only.	
637-145-201 Cable Pressure Systems; Using PR-868 Plugging	Issue 1, January 1992
Exception:	
References to specific product types are for purposes of il	lustration only.
637-145-300	Issue 1, October 1968
Insulated Conductor Junction Splices; Model 60000-D Moisture Separator; PIC, Paper or Pulp Ca	
Exception:	
This section is issued for informational purposes only.	
637-200-200 Continuous Feed Systems; Bypass Arrangements and Valv	Issue 4, January 1986 e Locations - Aerial
Exception:	
None.	
637-600-500 Continuous Feed Systems; Pressure Testing - Construction	Issue 3, September 1986 Tests
Exception:	
Page 15, Step 5; delete reference to GSP section 637-125 reference to SAES-T-637 section 637-125-200.	5-200; insert in its place a
637-800-501 Continuous Feed Systems; Pressure Gradients and Analysis	Issue 2, September 1975
Exception:	
Paragraph 2.05; Delete reference to "GAS PRESSURE For forms used will have to be produced locally by the user).	ORMS" being available, (all
637-800-507 Continuous Food Systems: Look Loootion Holium Mathed	Issue 2, February 1986
Continuous Feed Systems; Leak Location-Helium Method	
Exception:	

None.

639-900-040 Issue 3, September 1987 Continuous Feed Systems; Pressurized Cable Layout Drawings

Exception:

None.

637-900-100 Issue 1, December 1962 Continuous Feed Systems; Compressor-Dehydrator, Description and Installation - Models 5000, 1500, 750 and 600 PM

Exception:

This section is issued for informational purposes only, all references to specific models or manufactures types are for purposes of illustration.

637-900-101

Issue 1, October 1968

Compressor Dehydrator- Model 1400 PM - Description and Installation

Exception:

This section is issued for informational purposes only, all references to specific models or manufactures types are for purposes of illustration.

637-900-102

Issue 1, October 1968

Continuous Feed Systems;

Continuous Feed Systems;

Portable Compressor - Dehydrator-Model 8542 - Description and Installation

Exceptions:

General; this section is issued for informational purposes only.

Paragraph 5.09; delete existing text of paragraph and in its place insert the following:

5.09 - A humidity alarm will be caused by wet air. Wet air can be caused by low delivered air pressure to the dehydrator. If a wet air condition cannot be corrected by air compressor maintenance, the trouble lies in the dehydrator. Prior to checking out the dehydrator insure that none of the air fittings leak.

637-900-102 (Addendum) Continuous Feed Systems; Issue 2, November 1969

Portable Compressor - Dehydrator-Model 8542 - Description and Installation

Exception:

None.

637-900-103 Issue 2, June 1978 Continuous Feed Systems; Compressor-Dehydrator-Model 2000 PM and Model 3500 PM Air Dryers (General Cable, "Puregas")

Exception:

This section is issued for informational purposes only, all references to specific models or manufactures types are for purposes of illustration.

637-900-110 Continuous Feed Systems; Pressure Contractors - Location	Issue 2, May 1986 n	
Exception:		
None.		
637-900-111 Cable Pressurization Sheath Feed Methods, Pressure Tran	Issue 2, November 1986 sducers Location	
Exception:		
None.		
637-900-111 (Addendum) Cable Pressurization Sheath Feed Methods, Pressure Tran	Issue 1, August 1987 sducers Location	
Exception:		
None.		
637-900-301 Continuous Feed Systems; Initial Phase Procedures	Issue 3, September 1986	
Exception:		
None.		
637-900-302 Continuous Feed Systems Follow-Up Phase	Issue 2, November 1985	
Exception:		
None.		
637-900-305	Issue 3, August 1981	
Continuous Feed Systems; Models 5000, 1500, and 750, Compressor-Dehydrators - Maintenance Procedures (General Cable, Puregas)		
Exception:		
This section is issued for informational purposes only, all manufacture type are for the purpose of illustration.	references to specific models or	
637-900-306 Continuous Feed Systems; Compressor-Dehydrator, Model 600 PM - Maintenance Pr	Issue 1, January 1963 rocedures	
Exceptions:		
General; this section is issued for informational purposes only, all references to specific models or manufactures type are for the purpose of illustration.		
- Paragraph 1.03; delete reference to GSP section 637-9 reference to SAES-T Section 637-900-100.	00-100; insert, in its place, a	
637-900-306 (Addendum)	Issue 1, April 1963	
Continuous Feed Systems; Compressors-Dehydrator, Model 600 PM - Maintenance Procedures		

Exception:

None; this addendum is issued for informational purposes only, and is issued as a supplement to section 637-900-306 of this standard, only.

637-900-307

Issue 1, July 1968

Alarms: Pressure and Humidity-Puregas Compressor-Dehydrators, (Models 750, 1500, and 5000) - Functional Testing

Exceptions:

This section is issued for informational purposes only, all reference to specific models or manufacture type is for purposes of illustration.

637-900-308

Issue 1, October 1968

Continuous Feed Systems; Model 1400 PM - Maintenance

Exception:

This section is issued for informational purposes only, all references to specific models or manufacture type are for purpose of illustration.

637-900-502

Issue 3, September 1986

Continuous Feed Systems;

Cable Condition Monitoring - Gas Meters and Air Rate Indicators

Exception:

Page 3, Step 4; delete reference to "Section 637-900-300 of GTE practices; in its place insert reference to section 637-900-300 of this standard.

637-900-700

Issue 2, June 1986

Continuous Feed Systems; Procedure for Placing Air Dryer in Operation

Exception:

Page 1, delete reference to 637-900 subdivision of GTE practices, in its place insert reference to "637-900 subdivision of SAES-T Standards".

Reference in this standard to any particular manufacturer by name in connection with any product is intended for the purpose of example or description (i.e., type, specifications, and quality), of that product and items actual may be of any manufacture that meets technical requirements.

Revision Summary

28 January, 2004 Revised the "Next Planned Update". Reaffirmed the contents of the document, and reissued with minor changes.