

Engineering Standard

SAES-T-604

31 March, 2004

Communications Plant -
Clearances/Separations - Aerial

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Saudi Aramco DeskTop Standards

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I Scope

- A. Saudi Aramco adopts General Telephone & Electronics (GTE) Practice Series 604, Clearances And Separations, Communications Aerial Plant, as that engineering criteria to be applied to Saudi Aramco Communications System installations with exceptions applicable to individual sections as listed in section two.
- B. In general, this series deals with communications aerial plant clearances and separations in non-hazardous areas. The information contained within this standard should be supplemented by the appropriate sections of the National Electrical Code (NEC) and/or the National Electrical Safety Code (NESC) when dealing with facilities within an area classified as hazardous per [SAES-B-068](#) and the NEC.
- C. Reference in this standard to any particular manufacturer by name in connection with any product is only intended for the purpose of example or description (i.e., type, specifications, and quality of that product). Items actually purchased may be of any manufacture that meets technical requirements.
- D. The adopted GTE Practice is reproduced verbatim (with minor editing in connection with the exceptions listed in section two), consequently English (US) units of measurement are utilized with no metrication attempted.

II Conflicts and Deviations

Any deviations, providing less than the mandatory requirements of this standard require written waiver approval as per Saudi Aramco Engineering Procedure [SAEP-302](#). ||

III References

All referenced Specifications, Standards and Codes, Forms, Drawings and similar material shall be of the latest issue (including all revisions, addenda and supplements) unless stated otherwise. Applicable references are listed below:

A. Saudi Aramco References

Saudi Aramco Engineering Procedure

[SAEP-302](#)

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

Saudi Aramco Engineering Standard

[SAES-B-068](#)

Electrical Area Classification

B. Industry Codes and Standards

<i>GTE</i>	<i>General Telephone and Electronics</i>
<i>NEC</i>	<i>National Electrical Code (NFPA 70)</i>
<i>NESC</i>	<i>National Electrical Safety Code</i>

IV Modifications to GTE 604 Section

The following paragraph numbers refer to GTE 604 Section "Communications Plant - Clearances/Separations - Aerial", which is part of this standard. The text in each paragraph below is an addition, exception, modification, or deletion to GTE 604 as noted. Paragraph numbers not appearing in GTE 604 are new paragraphs to be inserted in numerical order.

604-020-011: Clearances And Separations For Aerial Plant - General; Issue 2/Aug., 1970

Exceptions;

- *paragraph 1.01; delete "GSP" from second sentence.*
- *paragraph 1.03; delete the words "state or municipal" insert in their place the words "Government or Company"; Add (per NESC).*
- *paragraph 5.02; delete the words: "System operating telephone companies", insert in their place the words: "Company Departments".*
- *paragraph 5.03; add the following as the second sentence; "Available from GTE Automatic Electric, part Number 572175".*
- *paragraph 6.04; delete the word "company", insert in its place "department".*
- *paragraph 7.01; delete the word "telephone", (two locations).*
- *paragraph 7.02; delete the word "telephone", (two locations); EXCEPTION statement; delete "GSP" in last sentence.*

604-100-011: Clearances For Telephone Poles And Stubs; Issue 1/Sept., 1963

Exceptions;

- *paragraph 2.02, (1); delete the word "company", in its place insert "department".*
 - *paragraph 3.01, first sentence; delete reference to Federal Aviation Agency, in its place insert the following: "refer to SAES-T-745, Lighting of Communications Towers and Obstructions": in second sentence; delete reference to "the office of FAA administrator", in its place insert "Aramco Manager of Aviation and*
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Technical Services": reference to FAA Regulations at end of paragraph is included for informational purposes only.

604-100-012: Clearances For Telephone Cables, Guys, Line Wires, And Drop Wires In All Loading Areas; Issue 2/Feb., 1970

Exceptions; General: information concerning CATV is included for information only.

- *paragraph 1.02; delete references to "GSP" (3 - places).*
- *paragraph 1.04; in no case shall clearances be less than those minimum clearances defined by the National Electrical Code, latest edition.*

604-105-011: Joint Use Clearances And Separations - General; Issue 1/Aug., 1963

Exceptions;

- *paragraph 1.03; delete references to "GSP".*

604-105-012: Joint Use Separation In The Span And At The Pole - All Loading Areas; Issue 2/Aug., 1968

Exceptions; None

604-105-015: Joint Use Illustrations; Issue 2/Feb., 1970

Exceptions; General: information concerning CATV is included for information only.

- *paragraph 1.01; delete reference to "GSP".*

604-106-011: Separations For Block And House Cables In Or On Buildings; Issue 1/April, 1966

Exceptions; None

604-110-011: Separations, Drop And Block Wiring, Pole-To-Building Spans And On Buildings; Issue 4/May, 1976

Exceptions;

- *Table 1, note (4); delete reference to "GTE 435-300 subdivision of GTE Practices".*

604-119-011: Clearance Attachments For Aerial Crossing - General; Issue 1/Dec., 1963

Exceptions;

- *paragrph 2.05; the "pull finder" refered to in the text is available from SAMS, stock number 36-141-381.*
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Revision Summary

31 March, 2004

Revised the "Next Planned Update". Reaffirmed the contents of the document, and reissued with minor revision.