

DEP SPECIFICATION

NOISE CONTROL
(AMENDMENTS/SUPPLEMENTS TO ISO 15664)

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DESIGN AND ENGINEERING PRACTICE



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PART I INTRODUCTION

1.1 SCOPE

This DEP defines the procedures for noise control of plant and equipment. It specifies requirements and gives recommendations on how to derive maximum allowable noise levels for plants.

This DEP applies both to the design and construction of new plants and to the modification of existing plants.

This DEP is based on ISO 15664:2001.

This DEP is not considered suitable for reference in requisitions of individual equipment. The actual noise limits for the equipment under consideration are specified in the equipment requisitions under guidance of the appropriate noise control engineer.

Part II of this DEP amends/supplements various clauses of ISO 15664, and follows the same clause numbering for easy reference. Clauses of ISO 15664 that are not amended by this DEP apply as written.

This is a revision of the DEP of the same number dated February 2012; see (1.5) regarding the changes.

1.2 DISTRIBUTION, INTENDED USE AND REGULATORY CONSIDERATIONS

Unless otherwise authorised by Shell GSI, the distribution of this DEP is confined to Shell companies and, where necessary, to Contractors and Manufacturers/Suppliers nominated by them. Any authorised access to DEPs does not for that reason constitute an authorization to any documents, data or information to which the DEPs may refer.

This DEP is intended for use in facilities related to oil and gas production, gas handling, oil refining, chemical processing, gasification, distribution and supply/marketing. This DEP may also be applied in other similar facilities.

When DEPs are applied, a Management of Change (MOC) process shall be implemented; this is of particular importance when existing facilities are to be modified.

If national and/or local regulations exist in which some of the requirements could be more stringent than in this DEP, the Contractor shall determine by careful scrutiny which of the requirements are the more stringent and which combination of requirements will be acceptable with regards to the safety, environmental, economic and legal aspects. In all cases the Contractor shall inform the Principal of any deviation from the requirements of this DEP which is considered to be necessary in order to comply with national and/or local regulations. The Principal may then negotiate with the Authorities concerned, the objective being to obtain agreement to follow this DEP as closely as possible.

1.3 DEFINITIONS

1.3.1 General definitions

The **Contractor** is the party that carries out all or part of the design, engineering, procurement, construction, commissioning or management of a project or operation of a facility. The Principal may undertake all or part of the duties of the Contractor.

The **Manufacturer/Supplier** is the party that manufactures or supplies equipment and services to perform the duties specified by the Contractor.

The **Principal** is the party that initiates the project and ultimately pays for it. The Principal may also include an agent or consultant authorised to act for, and on behalf of, the Principal. In ISO 15664 the term **end-user** is used. In this DEP the term end-user shall be understood to mean the Principal.

The word **shall** indicates a requirement.

The word **should** indicates a recommendation.

The word **may** indicates a permitted option.

1.3.2 Specific definitions

Term	Definition
ALARP	As Low As Reasonably Practicable, The point at which the cost (in time, money and effort) of further risk reduction is grossly disproportionate to the risk reduction achieved.

1.4 CROSS-REFERENCES

Where cross-references to other parts of this DEP are made, the referenced section or clause number is shown in brackets (). Other documents referenced by this DEP are listed in (Part III).

1.5 SUMMARY OF MAIN CHANGES

This DEP is a revision of the DEP of the same number dated February 2012. The changes followed a requirements quality review and were not a full technical update. The following are the main, non-editorial changes.

Section/Clause	Change
All	Restructured and clarified requirements, enforced use of shall/should/may for normative statements.
5.1.5	Amended Table 5.1 Allowable Sound Pressure levels for Personnel accommodation (bedrooms, private cabins, etc.) from 40 to 45 dB(A) to be in line with guidance contained in: 1. Guidelines for Community Noise (1999), World Health Organization, Geneva. 2. Noise and Vibration, Offshore Technology Report 2001/068, Health and Safety Executive, UK.
6.5	Shall deleted – refer to ISO 15664.