

Appendix <<1>> System Status Report for System template

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Description

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1. INTRODUCTION**1.1 Purpose of the document**

<The system report is the pillar of the configuration status accounting process for the technical baseline. The System Status Report collects technical information that relates to the status of a system development especially by stating the restrictions and limitations via failure scenarios in various domains e.g. safety.

This section focuses on a short description of the System Status Report's extent, including a concise definition of the current sub-system's design. If changes are made to the report, or if supplements are added, the reason for the update plus deviations from the earlier report shall be stated..

This document is a mandatory input for all system reviews.>

1.2 Definitions, acronyms and abbreviations

Abbreviation	Explanation of abbreviation
XXX	Xxxxxxx
XXX	Xxxxxxx
<<>>	<<>>

2. SYSTEM CHARACTERISTICS**2.1 System purpose**

< This short section gives a brief overview of the main functions of system to be built. It is a high-level description.>

2.2 System overview

< This is an overview of the system to be developed. This describes what it interfaces with, its states and modes, and the system architecture. Note that the system architecture is not a design [that will be done later].>

3. PREREQUISITES AND TEMPORARY RESTRICTIONS

<It shall in this section be stated if any System Safety Notifications are prerequisite before or during the implementation of the configuration in question. N/A shall otherwise be stated.

If Temporary Restrictions

Here, all temporary restrictions (i.e. not according to specification) with **technical** causes shall be disclosed. If possible, the text shall be formulated in such a way that it can be inserted directly into the System Operations and Maintenance Manual. System status report shall clearly state if the System Owner for the current system is authorized to lift temporary restrictions, to enable tests to be performed in

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accordance with the established System Verification Plan. The Chief Engineer is to be consulted.>

4. APPROVAL

<Approval constitutes the System Owner's standpoint on the subsystem's compliance with quality, safety, and the system documentation.

The approval is to be made by observing the restrictions and limitations that are applicable to operation.

Should there be any remaining activities according to section 11, it should be explained that it will not affect the approval.>

5. EFFECT ON ENGINEERING DOCUMENTATION

<This heading shall be used for the subsystem's restrictions, limitations and special remarks that shall be included in the System Operations and Maintenance Manual.>

5.1 Restrictions

<Restrictions in accordance with the specification shall be disclosed under this heading. If there are no restrictions this must be stated.>

5.2 Limitations

< Limitations in accordance with the specification are given under this heading. If there are no change of the limitations, this must be stated.>

5.3 Special Remarks

< Special remarks/comments should be presented under this heading. If there are no special remarks this must be stated.>

6. FAILURE MODES

<Such failure modes that the Operator can be expected to experience shall be handled in the Operations and Maintenance Manual, with respect to the primary cause, failure indication, consequences for the current function, effect on other systems and Operators actions.

References to failure mode descriptions are to be made under this heading. The content forms the basis of the Operations and Maintenance Manual.

Special actions to be taken by operations personnel, as a result of failures discovered, are also to be reported under this heading.>

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7. SYSTEM SAFETY ASSESSMENT

<An account of the system safety assessment is given. A standpoint on compliance with the system documentation from a system safety point of view for the current system design shall be stated under this heading.

The criticality of software included in the subsystem is to be reported. >

8. DEVELOPMENT AND VERIFICATION STATUS

<For defined variants and the requirements stipulated for them, current non-compliance with the requirements must be reported. A reference to the Verification Plan must be given. Non-compliance affecting safety, as well as those affecting function, in relation to planned and agreed design, shall be made by citing references to system documentation. The technical explanation describing a problem has been resolved temporarily by a restriction or a limitation shall be made clear by citing a reference to the action that has been taken.

The verification status for system requirements must be reported, together with a standpoint on significant verification results. A reference shall be made to the System Verification Report.

A comprehensive statement of software status must be given in the system report as a reference for those subsystems where software systems are included.>

8.1 Planned removal of Restrictions

< All restrictions shall have a plan for removal described in this section>

8.2 Removed Restrictions

<When removal of a restriction is performed, it shall be described how it was removed, for instance through complementing verification, further development or modification. Reference to the applicable Verification Report shall be included.>

8.3 Deviation or waiver from specification

< Requirements not closed (verified) shall be stated with their Id. It shall also be stated if the requirement is connected to a restriction, limitation or special remark. This is only applicable for verified system. Non-conformities forms are documented with an Engineering Change Request process via Chess and their Id is stated here>

8.4 Removal of Restrictions

<The conditions for removal of temporary restrictions shall be disclosed, for example, through supplementary verification, further development or modification, plus a reference to a Verification Plan as updated.>

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9. REVIEWS

<Completed reviews are to be reported by citing a reference to review minutes. Any remarks concerning equipment furnished directly from suppliers that affect safety, security, integration or system function must be disclosed.

If remarks have been made concerning the owned subsystems, they shall be stated hereunder with a reference to current review minutes. Otherwise, it shall be stated that no remarks remain.

A standpoint must be taken as to whether any of the remarks put forward during the PDR, CDR (Preliminary and Critical Design Reviews...), etc has an effect on safety and operation.>

10. EQUIPMENT

<A reference to the System Design Description is stated here. It must be given the status of the development of the system with its equipment (tooling, packaging).

This section shall state that the equipment defined as constituent in the subsystem are qualified in accordance to the System Verification Plan.>

11. REMAINING ACTIVITIES

<Remaining activities (the issuing of references) that constitute conditions for system/subsystem approval/conformance with specification are reported under this section. Should any remaining activities exist, a standpoint must be taken regarding effects on requirements, and shall be disclosed under section 3 "Approval".

A remaining activity may, for example, be the conclusion of a report on the completion of a test, with approved/known results. Issuing of System Safety Notification are not allowed to be a remaining activity.>

12. RISK

<Risks related to the system are stated here with their Id. Any issue regarding risk mitigation is reported.>

13. MISCELLANEOUS

<Circumstances that can affect safety and security assessment or satisfaction of requirements, and which are not clarified by the System Status Report generally, shall be reported under this heading.

The functions in several subsystems are dependent on functions in systems/subsystems external to the system. Updates carried out on a number of subsystems can then constitute a condition for maintenance of the total function. Here, the subsystems concerned must report known connections to systems/subsystems outside the system, with respect to both qualification and requirements on updates.

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In those cases where interacting equipment and/or measurement equipment (interfaced with but in the scope) is connected to the system, completed assessments regarding their effects on safety and security are to be reported. These measurement equipment or installation equipment must be stated in the System Verification Plan and the System Integration Plan respectively (to be referenced here).>

14. REFERENCES

<All documentation valid at the time of approval of the system is listed. Despite any validity that may be stated in a document, it is the supporting document that is used as a reference in the system status report that gives the final validity. Supporting references contained in the System Status Report are to be stored within CHESS.

The references given below constitute (in **applicable** cases) a minimum requirement, and shall be stated with current approval status and version number:

- Project/Work Package/Work unit Specification,
- System Requirement Document,
- Concepts of Operation for the system,
- System Architecture Specification,
- System Design Description (if applicable),
- Interface Control Document list,
- System Analysis reports (if applicable),
- TradeOff study reports (if applicable)
- System Verification Plan,
- System Verification Report,
- System Operation and Maintenance Manual,
- System Integration Plan,
- Minutes, decision logs of reviews (FR, PDR, CDR if applicable, TRR, SAR and ORR if applicable),
- system safety assessment
- ESS software system, comprehensive criticality investigation
- configuration report, e.g. ADS configuration list
- restriction liquidation plan>

Supplementary or temporary documentation is to be given in this section.

When issuing new references included in the type document list, the system owner is responsible for ensuring that the new issue verifies equivalent requirements to the same extent as the previous issue.>

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