# **NAV 13 Component/System Cleanliness**

***Applicable Standards***

***MIL-I-45208, MIL-Q-9858, DI-MISC-81020, NAVSEA 0948-LP-045-7010, contract requirements***

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| 1. Does the supplier have procedures for the specific cleanliness requirements?      | Yes No[ ]  [ ]  |
| 1. Does the procedure include acceptance criteria?

      | Yes No[ ]  [ ]  |
| 2. Is the supplier's procedure for component/system cleanliness approved? Record Approval Number, if applicable.      | Yes No N/A[ ]  [ ]  [ ]  |
| 3. Does the fluid/medium being used to flush or test the component or system meet cleanliness requirements per the contract?      | Yes No N/A[ ]  [ ]  [ ]  |
| 4. Check the applicable cleanliness requirement(s):[ ]  \* Air[ ]  \* Potable Water[ ]  \* Hydraulic Fluid[ ]  \* Steam[ ]  \* Other       |  |
| 5. Is the pressure the component/system is exposed to during the cleaning process per requirements?      | Yes No N/A[ ]  [ ]  [ ]  |
| 6. Is cleanliness verified per the required method (e.g. use of filters, viscosity, color)?      | Yes No N/A [ ]  [ ]  [ ]   |
| 7. Does the specification allow use of recycled (reused) medium/material?      | Yes No [ ]  [ ]   |
| 8. Are personnel who perform component/system cleanliness trained/qualified in the procedure/specification?       | Yes No[ ]  [ ]  |
| 9. Do the supplier's procedures include component/system identification after cleaning (e.g. tags, stencil)?      | Yes No [ ]  [ ]   |
| 10. Is component/system cleanliness maintained per specification or purchase order (including Coded Notes or Standard Clauses), procedure, and work instructions?      | Yes No N/A[ ]  [ ]  [ ]  |
| 1. Are these requirements passed down to sub-tier vendors?

      |  Yes No[ ]  [ ]  |
| 11. Check the applicable cleanliness requirement(s):[ ]  \* Openings covered with correct material[ ]  \* Component/system covered[ ]  \* Clean room[ ]  \* Other       | Yes No N/A[ ]  [ ]  [ ]  |
|  12. Do supplier's procedures address hazmat requirements and are they readily available?      | Yes No N/A[ ]  [ ]  [ ]  |
| 13. Do supplier's procedures require verification of cleanliness prior to packaging and shipping?       |  Yes No[ ]  [ ]  |
| 1. Is this verification documented on the router / shop traveler?

      |  Yes No[ ]  [ ]  |
| 14. Does the item require preservation after flushing for cleanliness per specification/purchase order requirements?      | Yes No N/A[ ]  [ ]  [ ]  |
| 1. Is the item properly identified?

       |  Yes No[ ]  [ ]  |
|  MIL-STD-1330 CLEANLINESS for items 15 & 16      |  Appl N/A[ ]  [ ]  |
| 15. Does the supplier have an approved procedure for cleaning per MIL-STD-1330?      |  Yes No[ ]  [ ]  |
| 16. Does the supplier's procedure address:      |   |
| 1. Special test, fluid/lubricant requirements?

      |  Yes No[ ]  [ ]  |
| 1. Clean room requirements (e.g. structure, temperature, humidity, ventilation, air pressure, clothing, equipment)?

      |  Yes No[ ]  [ ]  |
| 1. Personnel qualification and training?

      |  Yes No[ ]  [ ]  |
| 1. Personnel qualification and training?

      |  Yes No[ ]  [ ]  |
| 1. Flushing requirements?

      |  Yes No[ ]  [ ]  |
| 1. Pressure testing requirements including after completion of special cleaning?

      |  Yes No[ ]  [ ]  |
| 1. Packaging and identification (e.g. double bagging, special tags, container marking)?

      |  Yes No[ ]  [ ]  |
| 1. Inspection, audit and surveillance requirements?

      |  Yes No[ ]  [ ]  |
| STEAM PLANT CLEANLINESS CONTROLS for items 17 to 21      |  Appl N/A[ ]  [ ]  |
| 17. Does the supplier maintain a “Build Clean” philosophy throughout the manufacturing and assembly process? (may not apply to distributors)      | Yes No N/A[ ]  [ ]  [ ]  |
| 18. For components (i.e. pumps) - does the supplier ensure each piece part meets steam plant cleanliness prior to assembly? (may not apply to distributors)      | Yes No N/A[ ]  [ ]  [ ]  |
| 19. Are the proper protective devices (caps/covers/plugs) being used per the contract requirements and do they provide adequate protection?      |  Yes No[ ]  [ ]  |
| 20. Is the proper type of sealing and tamper evident tape being used per the contract requirements, and are they being applied correctly?      |  Yes No[ ]  [ ]  |
| 21. Is the supplier inspecting and verifying steam plant cleanliness aspects to the maximum extent practical to ensure no foreign material exists (i.e. paint markings, debris)? Do the routers/travelers reflect this as a hold point?      |  Yes No[ ]  [ ]  |

Additional concerns/comments: