

New Standard: ASME N511

In-Service Testing of
Nuclear Air Treatment, Heating,
Ventilating, and Air Conditioning Systems
System Engineering Perspectives
by

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Environmental Habitat / Information Services

LET'S START WITH A WORD ASSOCIATION EXERCISE

**AS EACH WORD OR PHRASE
APPEARS, WHAT IS YOUR FIRST
THOUGHT?
FOR INSTANCE...**

ISNATT

NUCLEAR AIR CLEANING CONFERENCE

ASME

CODES AND STANDARDS

CONAGT

THE STANDARD

ALARA

(AS LOW AS REASONABLY ACHIEVABLE)

ECONOMICS

NEI

ANS

NHUG

ASHRAE

D.O.E.

INPO

NRC

ASTM

TESTING

PROGRESS

COMPLACENCY

SO, WHAT'S THE POINT?

**CHANCES ARE WE ALL HAVE
SOMEWHAT DIFFERENT VIEWS ON
EACH OF THESE WORD TOPICS.
TO REACH A CONSENSUS ON ONE
OF THEM WOULD SEEM POSSIBLE.**

CONSENSUS

**HOW LONG WOULD IT TAKE FOR
US TO REACH A CONSENSUS ON
ALL OF THESE?
TO BE IN AGREEMENT, HARMONY.**

SOME N511 HISTORY

WHY DOES N511 EXIST?

...Years Prior...

- **1994 – Draft Section TA of AG-1**

AG-1 – Scope problem:

TA to be acceptance testing only

Main Committee Directive:

Initiate PIF for N511 in-service test standard

Develop under new ASME streamline process

N511 - Publication Track

06/29/2006 – Standards Committee Approval

- **02/27/2007 – Board Approval**
- **06/04/2007 – Public Review Submitted**
- **06/15/2007 – Public Review Start**
- **08/14/2007 – Public Review End**
- **10/09/2007 – ANSI Approval Submitted**
- **02/04/2008 – Published – N511-2007**

N511 - TODAY

**WHAT'S GOING ON WITH
N511**

NOW THAT IT IS PUBLISHED?

ASME / CONAGT

SUBCOMMITTEE ON FIELD TESTING PROCEDURES

- **BREAK OUT OF THE PARIDIGM
THAT A STANDARD IS WRITTEN
IN STONE, NEVER TO CHANGE.**

Current N511 Activities

- **Development of consensus standard appendices**
 - **Project Initiation Forms (from 02/08):**
 - **Applying VOC Limitations**
 - **Control Room Habitability Assessments**
 - **Adsorber Pulse-Mode Testing**
 - **Historical Technical Information**
 - **Exam & Testing of LSSC**

Current N511 Activities

- **Projects that were discussed at the 02/08 SC meeting and not approved to proceed:**
 - **PIF_N511_Appendix for M-RULE Applicability**
 - **PIF_N511_Appendix for Stating Personnel Requirements For Testing Or Subject Matter Experts...**

Current N511 Activities

- **Pending PIFs for the following issues:**
 - **APPENDIX ON STANDARD TECHNIQUES FOR OBTAINING ADSORBER CARBON SAMPLES FOR RADIOIODINE TESTING.**
 - **DEVELOPMENT OF NEW STANDARD FOR THE TESTING OF PORTABLE NUCLEAR AIR TREATMENT SYSTEMS AND VACUUM CLEANERS USED IN THE NUCLEAR INDUSTRY.**

THE PROJECT INITIATION FORM

| | | | |
|--|--|--|---------------------------------------|
| PART A - Action Request | | TRACKING NUMBER: | |
| | | Date: February 20, 2008 | |
| REQUESTOR INFORMATION | | | |
| Name: MARK E. PEST | | Organization: SC on Field Testing Procedures | |
| Telephone No: 920-388-8932 623-695-6620 | | Fax No: | E-Mail Address mark.e.pest@dom.com |
| APPLICABLE CODE/STANDARD | | | |
| No.: N511 | | Title: In-service Testing of Nuclear Air Treatment, Heating, Ventilating, and Air Conditioning Systems | |
| Revision/Edition No: 2007 | | | |
| | | Section/Part No: N/A | Rule/Article No: |
| ACTION REQUESTED (Select One) | | | |
| Code/Std Revision <input checked="" type="checkbox"/> | | Prepare New Code/Std. <input type="checkbox"/> | |
| Code Case <input type="checkbox"/> | | Other (specify) <input type="checkbox"/> | |
| SUBJECT: NEW N511 APPENDIX THAT PROVIDES GUIDANCE FOR USING THE PULSE-MODE TESTING TECHNIQUE FOR ADSORBER IN-PLACE TESTING. | | | |
| EXPLANATION: THE SUBCOMMITTEE ON FIELD TESTING PROCEDURES SHOULD CONSIDER THE ADDITION OF A N511 APPENDIX THAT PROVIDES GUIDANCE FOR USING THE PULSE-MODE TESTING TECHNIQUE FOR ADSORBER IN-PLACE TESTING. IF THE SUBCOMMITTEE AGREES THAT SUCH AN APPENDIX IS BENEFICIAL, A DRAFT OF THE APPENDIX SHOULD BE DEVELOPED UNDER THIS PIF FOR A PROPOSED ADDITION TO N511. THE PROJECT ACTION SHOULD BE TO: 1. DECIDE IF THE ABOVE APPENDIX SHOULD BE DEVELOPED. 2. DEVELOP A DRAFT OF THE PROPOSED APPENDIX AND SUBMIT FOR MC BALLOT. | | | |
| INTENDED USE OF PROPOSED ACTION: TO PROVIDE GUIDANCE FOR USING THE PULSE-MODE TESTING TECHNIQUE FOR ADSORBER IN-PLACE TESTING. | | | |
| REQUESTOR'S NEED DATE: N/A | | | |
| DOES REQUESTOR WANT TO PARTICIPATE IN THE PROCESS? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | | |
| Part B - ASME Staff Disposition | | | |
| DATE RECEIVED: | | PRIORITY: | |
| PROJECT MANAGER: | | | |
| Committee/Group: | | | |
| Database Manager: <i>(in the event that the project manager is not on an official ASME roster, please provide an individual who is to make updates on the database for the project manager. Otherwise, leave blank.)</i> | | | |
| OTHER AFFECTED GROUPS: <i>(within ASME)</i> | | | |
| EXTERNAL ORGANIZATIONS INVOLVED: <i>(Non-ASME)</i> | | | |
| ACTION TO BE COMPLETED BY: <i>(Date)</i> | | | |
| RESPONSE SENT TO REQUESTOR: <i>(Date)</i> | | | |

Note: Separate template/s will be required to track the progress of the request within the ASME organization. This template only documents the requestor interface.

THERE ARE MANY DIFFERENT BASIS:
- LICENSE
- DESIGN
- MAINTENANCE
N511 PROVIDES THE SYSTEM ENGINEER
WITH A TESTING BASIS:

1.4 Use of This Standard

This Standard provides a basis for
the development of test programs...

Think: A Living Document

- **The Process of Change :**
 - **How does the Standard work for the System Engineer?**
 - **Think Declaration of Independence stuff.**
 - **Documenting your system testing programs to the consensus.**
 - **Input your system engineering scenario amongst your peers and develop a consensus procedure on your specific test application**
 - **This is the place to develop YOUR ideas**
 - **And standardize your profession**
 - **REMEMBER THE N511 TITLE ...**

IN-SERVICE TESTING OF...

Questions / Comments?

Thank you