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ASBD-NDT PERSONNEL TRAINING
QUALIFICATION AND CERTIFICATION PROCEDURE
NUMBER ASBD-NDT 1101

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1.0 Scope

- 1.1 This procedure establishes the requirements for the training, qualification, and certification of all ASBD personnel who are responsible for performance, administration or audit of Nondestructive Testing (NDT) for ASBD, General Electric Company.
- 1.2 This procedure has been designed to meet the requirements as a minimum, of the American Society for Nondestructive Testing Recommended Practice No, SNT-TC-1A, June, 1975 Edition. It describes the responsibilities and controls necessary to implement and administrate the ASBD-NDT personnel training, qualification and certification program.
- 1.2.2 ASBD-NDT, Schenectady, reserves the right to exceed the minimum requirements of SNT-TC-1A as specified herein in order to meet additional levels of skills and responsibilities for certain individuals in selected methods.

2.0 Definitions

- 2.1 Qualification: Capability as indicated by skill, training and experience required for personnel to properly perform the duties of a specific job.
- 2.2 Certification: Written testimony of qualification based upon comparison to established standards of performance through written and practical examination.
- 2.3 Certification Agency: ASBD, General Electric Company, Schenectady, shall certify ASBD-NDT personnel.
- 2.4 Experience: The knowledge and skill derived from direct participation and observation in the performance of a nondestructive test.

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2.5 Training: The organized and controlled classroom and on-the-job training developed to impart the knowledge and skills necessary for qualification and certification.

2.6 Termination: When a certified individual is transferred to another division within General Electric Company, or leaves employment of the General Electric Company.

**2.7 Revocation: Rescind certification for failure to comply with maintenance requirements documented in this procedure.

3.0 Responsibilities

*3.1 The Manager, ASBD-NDT, is responsible for the qualification and certification of ASBD NDT personnel. The responsibility includes assurance that the program described herein is implemented.

*3.2 The Manager, ASBD-NDT, shall be responsible for the appointment of NDT Level III examiner(s). The examiner(s) shall have been previously certified to Level III.

**3.3 If the Level III examiner is not an employee of ASBD, General Electric Company, the certification must meet the requirements of this document. This shall be determined by the Manager, ASBD-NDT.

*3.4 The Level III examiner(s) for each NDT discipline shall provide guidance and direction for related training, qualification and certification for ASBD-NDT personnel. Certificates shall be signed by the Level III examiner and the Manager, ASBD-NDT (Exhibit IV).

*3.5 ASBD-NDT personnel shall be responsible for recording all NDT work experience on the work experience record (Exhibit II). Such documents shall be forwarded to the ASBD-NDT headquarters in Schenectady on a minimum of a bi-monthly basis.

3.5.1 Work experience will be included in the job summary on the basis of when the data is received in Schenectady. The cumulative time will not be adjusted on the chronology of the work experience if the data is sent out of sequence.

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4.0 Nondestructive Testing Methods

4.1 The Methods of testing which are specifically designated in this procedure are:

- 4.1.1 Radiographic Testing (RT)
- 4.1.2 Magnetic Particle Testing (MT)
- 4.1.3 Ultrasonic Testing (UT)
- 4.1.4 Liquid Penetrant Testing (PT)
- 4.1.5 Eddy Current Testing (ET)
- **4.1.6 Visual Testing (VT)**

5.0 Level of Qualification

5.1 There shall be three basic levels of qualification for each NDT method. Levels I and II have been subdivided to acknowledge necessary additional levels of skills and responsibilities.

5.2 NDT Level I-T (Trainee) - An individual in the process of being qualified and certified to Level I.

***5.2.1** Level I-T meets education, training and examination requirements for applicable method but lacks minimum experience requirements for Level I. Level I-T may be certified to NDT Level I after obtaining experience requirements and a practical examination.

5.2.2 Level I-T shall work with or assist a certified Level II or Level III in the performance of a test. Level I-T shall not conduct any test independently, interpret test results or write a report of test results.

5.3 NDT Level I

5.3.1 Level I individual meets education, training, examination and experience requirements for the applicable method.

***5.3.2** Level I shall be qualified to perform calibration, examinations and record results in accordance with written procedures under the direct supervision of a Level II or III individual. Level I shall not interpret test results for the purpose of evaluating acceptability of materials or components, unless otherwise specified in the specific procedure.

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5.4 NDT Level II

- 5.4.1 Level II individual meets education, training, examination and experience requirements for the applicable method.
- 5.4.2 Level II shall be qualified to direct and perform calibrations and examinations, interpret, evaluate and report test results for determining acceptability of materials and components in accordance with applicable codes, standards and specification. Level II shall be familiar with scope and limitation of the method and shall have a practical background in applicable materials and fabrication processes. Level II shall be qualified to prepare written instructions and procedures subject to the approval of the responsible Level III and the Manager, ASBD-NDT. Level II shall be qualified to provide on-the-job training and direction of Level I-T and Level I personnel.

5.5 NDT Level III and NDT Level III Examiner

- 5.5.1 NDT Level III meets education, experience, training and examination requirements for the applicable method when certified by examination.
- 5.5.2 Level III shall be responsible for designating the particular test method and technique to be used and for interpreting, evaluation, and reporting test results for determining acceptability of materials and fabrication processes, and/or product technology, as well as familiarity with other NDT methods, to establish techniques and written procedures, and assist the design engineer in establishing acceptance criteria as required.
- **5.5.3 Level III examiner shall have met the requirements of Level III in sections 5.5.1 and 5.5.2 above, or be certified by an outside agency and meet equivalent requirements as specified above.

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6.0 Education, Training and Experience

- 6.1 Personnel being certified in nondestructive testing shall have sufficient training to insure understanding of the principles and procedures in those NDT methods in which they are being considered for certification.
- *6.2 Personnel shall complete organized classroom training in accordance with ASBD-NDT training courses.
- 6.3 The Education and Employment Record Form shall be used to record the information required by 6.1 and 6.2 above (Exhibit I).
- *6.4 Training course for ASBD-NDT personnel shall be conducted by Level II or Level III ASBD-NDT personnel or by recognized NDT schools within or outside the General Electric Company. These training courses must have prior approval of the Manager, ASBD-NDT.
- 6.5 On-the-job training should be used to augment formal classroom training.
- 6.6 Education options for Levels I-T, I, and II
 - 6.6.1 Option 1: Successful completion of at least two years of college engineering or science study..
 - 6.6.2 Option 2: High school graduation, diploma or equivalent.
 - 6.6.3 Option 3: Grammar school graduation or demonstrated proficiency or additional training.
- 6.7 Work experience options for Level III:
 - 6.7.1 Option 1: Graduate of a four-year accredited engineering or science college or university with a degree in Engineering or science plus one year's experience in nondestructive examination in an assignment comparable to that of an NDT Level II in the applicable test method. If the college or university degree is issued in nondestructive testing, the one year's experience requirement may be reduced to six months.

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6.7.2 Option 2: Completion with a passing grade of at least two years of science study at an accredited university, college or technical school, plus two years experience as a certified NDT Level II in the applicable test method.

*6.7.3 Option 3: Four years experience as a certified NDT Level II in the applicable test method.

*6.8 Training and experience requirements. Work experience is considered to include all the time associated with performing an NDT inspection. This includes time spent in preparation for testing, in procedure and technique review, for discussion and specific task instruction, during actual test time, for post-test clean up, and for reporting and record keeping. This does not include training time, which is a separate requirement, nor does it include travel time to the job site. Work experience shall be recorded as hours of experience on the NDT individual time report (Exhibit II).

*6.8.1 NDT Level I-T (Minimum Training and Experience)

Method	Option 1	Option 2	Option 3	Work Experience
RT	12 Hrs.	20 Hrs.	80 Hrs.	0 Hrs.
MT	8 Hrs.	12 Hrs.	24 Hrs.	0 Hrs.
UT	24 Hrs.	40 Hrs.	40 Hrs.	0 Hrs.
PT	4 Hrs.	4 Hrs.	12 Hrs.	0 Hrs.
ET	8 Hrs.	12 Hrs.	48 Hrs.	0 Hrs.
VT	4 Hrs.	4 Hrs.	12 Hrs.	0 Hrs.

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***6.8.2 NDT Level I (Minimum Training and Experience)**

Method	Option 1	Option 2	Option 3	Work Experience
RT	12 Hrs.	20 Hrs.	80 Hrs.	All Options: 525 Hrs.
MT	8 Hrs.	12 Hrs.	24 Hrs.	All Options: 175 Hrs.
UT	24 Hrs.	40 Hrs.	40 Hrs.	All Options: 525 Hrs.
PT	4 Hrs.	4 Hrs.	12 Hrs.	All Options: 175 Hrs.
ET	8 Hrs.	12 Hrs.	48 Hrs.	All Options: 175 Hrs.
VT	4 Hrs.	4 Hrs.	12 Hrs.	All Options: 175 Hrs.

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***6.8.3 NDT Level II (Minimum Training and Experience)**

Method	Option 1	Option 2	Option 3	Work Experience
RT	40 Hrs.	40 Hrs.	100 Hrs.	All Options: 1575 Hrs.
MT	4 Hrs.	8 Hrs.	16 Hrs.	All Options: 525 Hrs.
UT	40 Hrs.	40 Hrs.	80 Hrs.	All Options: 1575 Hrs.
PT	4 Hrs.	8 Hrs.	16 Hrs.	All Options: 350 Hrs.
ET	8 Hrs.	8 Hrs.	24 Hrs.	All Options: 1575 Hrs.
VT	4 Hrs.	8 Hrs.	16 Hrs.	All Options: 350 Hrs.

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*6.8.4 NDT Level III (Experience options outlined in Paragraph 6.7)

Method	Option 1	Option 2	Option 3
RT	2100 Hrs.	4200 Hrs.	8400 Hrs.
MT	2100 Hrs.	4200 Hrs.	8400 Hrs.
UT	2100 Hrs.	4200 Hrs.	8400 Hrs.
PT	2100 Hrs.	4200 Hrs.	8400 Hrs.
ET	2100 Hrs.	4200 Hrs.	8400 Hrs.
VT	2100 Hrs.	4200 Hrs.	8400 Hrs.

*6.8.5 The training and experience listed on chart 6.8.3 shall consist of time at level I. For exceptions to the normal progression from trainee to certification as Level II, the overall requirements of training and experience are the sum of hours on charts 6.8.2 and 6.8.3. Two typical exceptions include, individuals who have been involved in NDT prior to a formal NDT program, and individuals who have had more than the required time at Level I-T before certification to Level I.

*6.8.6 Under special circumstances, credit for experience may be gained simultaneously in two or more disciplines. The candidate must spend at least 25% of the work time on each discipline for which experience is being claimed. Furthermore, this similar testing must meet the 25% requirement during each calendar week. These special circumstances must be reviewed and approved in advance by the Manager ASBD-NDT or the Level III Examiner.

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7.0 Examinations

*7.1 An NDT Level III Examiner or his selected representative shall conduct and grade examinations for all NDT Levels I-T, I, and II. An NDT Level III Examiner shall conduct and grade examinations for candidate NDT Level III individuals. Written examinations shall be administered in accordance with paragraphs 7.1.2 and 7.1.3 of this procedure. If the number of questions exceeds the minimum required number, the allowable test time is increased proportionally.

*7.1.1 Physical: All NDT personnel shall meet the vision requirements specified herein both as a prerequisite to training, qualification, and certification and as a continuing requirement. Eye screening shall be performed at least annually by a qualified individual approved by the Manager ASBD-NDT. Eye screening results shall be recorded on Form NDT-F-102 Exhibit III and kept on file.

*7.1.1.1 Visual Acuity (Uncorrected or Corrected): The Jaeger No. 1 Chart shall be read from a distance of 15.7 inches, plus or minus 1 inch. This requirement is for monocular as well as binocular vision. The ability to perceive an Ortho-Rate minimum of eight or similar test pattern shall also be acceptable.

*7.1.1.2 Color Vision: Personnel who are certified in MT, PT or other test methods requiring color discrimination shall pass a suitable color discrimination test such as that dictated by the Ishihara or American Optical Color Plates.

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*7.1.1.3 Exceptions: When the requirements of Paragraphs 7.1.1.1 and 7.1.1.2 above are not met, the individual shall be examined by a licensed vision care practitioner. The information contained in 7.1.1 shall be made available to the practitioner and shall include a description of the NDT disciplines in relation to visual acuity and color discrimination. After examination of the individual in question, the practitioner shall document his judgment as to the individuals' capability to recognize the necessary patterns, including any restrictions deemed pertinent. Such documentation shall form a part of the individual's permanent record.

This process for questions on color vision, paragraph 7.1.1.2, is a one time requirement unless the work scope adds additional color discrimination.

**7.1.1.4 The eye screening is detailed in a separate procedure of ASBD-NDT procedure manual, Volume 29.

7.1.2 General

*7.1.2.1 The general examination shall cover basic theory, principles, and practices relative to the applicable NDT method. This examination shall be administered without access to reference material (closed book) except that graphs, tables and other necessary data may be used.

7.1.3 Specific

*7.1.3.1 The specific examination shall cover equipment, operating procedures, test techniques, and codes that the examinee may encounter in specific assignments. This examination shall be administered as an open book test.

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7.1.4. Practical

- *7.1.4.1 The person considered for certification shall demonstrate to the satisfaction of the NDT Level III Examiner or his representative that he is familiar with an can operate the necessary test equipment and analyze the test results to the degree required.
- *7.1.4.2 At least one selected specimen shall be tested and interpreted by the examinee. However, test interpretation is not a requirement for certification for NDT Level I-T or NDT Level I.
- *7.1.4.3 The description of the test specimen, test procedure, check points and results of examination shall be graded and documented.

7.2. NDT Level I-T and NDT Level I Examination

7.2.1 General Examination: The minimum number of questions and related allowable test time for each NDT method shall be as follows:

<u>Test Method</u>	<u>Number of Questions</u>	<u>Allowable Test Time</u>
Radiographic Testing	40	1 1/2 Hrs.
Magnetic Particle Testing	30	1 1/2 Hrs.
Ultrasonic Testing	40	1 1/2 Hrs.
Liquid Penetrant Testing	30	1 1/2 Hrs.
Eddy Current Testing	30	1 1/2 Hrs.

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*7.3.2

Specific Examination: The minimum number of questions and related allowable test times for each NDT method shall be as follows:

Test Method	Number of Questions	Allowable Test Time
Radiographic Testing	20	1 1/2 Hrs.
Magnetic Particle Testing	15	1 Hrs.
Ultrasonic Testing	20	1 1/2 Hrs.
Liquid Penetrant Testing	15	1 Hrs.
Eddy Current Testing	20	1 1/2 Hrs.

*7.3.3

Practical Examination: Proficiency shall be demonstrated in selecting and performing the applicable nondestructive examination and evaluating the results obtained on one or more samples approved by the NDT Level III Examiner. At least ten different checkpoints requiring an understanding of test variables and procedural requirements shall be included in this practical examination.

*7.4 NDT Level III Examinations

Note: All Level III candidates must satisfy the following examination requirements. Level III examiners shall be appointed by the Manager, ASBD-NDT, after having met the requirements of Level III. See paragraph 5.6.3.

7.4.1 General Examination: A minimum of 30 questions devised by the Examiner on the NDT method to be certified, plus 30 NDT Level II questions for other applicable NDT methods.

7.4.2 Specific Examination: The minimum number of question and related allowable test times for each NDT method shall be as follows:

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Test Method		Number of Questions		Allowable Test Time	
Radiographic Testing		20		1 Hr.	
Magnetic Particle Testing		20		1 Hr.	
Ultrasonic Testing		20		1 Hr.	
Liquid Penetrant Testing		20		1 Hr.	
Eddy Current Testing		20		1 Hr.	
<p>*7.4.3 Practical Examination: Proficiency shall be demonstrated in selecting, specifying and writing specifications and/or procedures for the performance of the applicable nondestructive examination using appropriate reference material. The proficiency shall also be demonstrated by performing and evaluating the results on one or more samples approved by the NDT Level III examiner. At least 10 different checkpoints requiring an understanding of test variables and procedural requirements shall be included in this portion of the practical examination.</p> <p>**7.4.4. If the Level III candidate has been certified by examination administered by the American Society for Nondestructive Testing (ASNT), the general examination does not need to be administered.</p> <p>7.5 Grading: The NDT Level III Examiner shall be responsible for the conducting and grading of examinations of all NDT personnel. The actual administration and grading of examinations may be delegated to the duly selected representative of the Level III Examiner and so recorded.</p> <p>7.5.1 Minimum required percentile grades for NDT Levels I-T, I, II and III are detailed in Paragraph 7.5.2. These grades shall be a composite grade based upon the general, specific and practical tests as weighed in Paragraph 7.5.3.</p>					
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*7.5.2 Examination for NDT Levels I-T, I, and II requires a composite grade of 80% or greater. In addition, each grade for the general, specific and practical examinations shall be 70% or greater. Test objects shall be used in the practical examinations of NDT Levels I-T, I and II and at least 90% of the known indications shall be found. For NDT Level III, a composite grade of 90% is required and no grade shall be less than 80%. If the ASNT Level III examinations have been passed, the minimum grade, 80%, will be used for the general examination.

7.5.3 A percentile weight factor shall be applied to the percentage grades of the various examinations. The percentile weight assigned any particular examination shall be as listed below. The total of the three percentile weights shall equal 1.0.

*7.5.3.1 NDT Level I-T and I, Examination Grades

- | | |
|--------------|------|
| 1. General | -0.5 |
| 2. Specific | -0.2 |
| 3. Practical | -0.3 |

*7.5.3.2 NDT Level II, Examination Grades

- | | |
|--------------|------|
| 1. General | -0.3 |
| 2. Specific | -0.4 |
| 3. Practical | -0.3 |

*7.5.3.3 NDT Level III Examination Grades

- | | |
|--------------|------|
| 1. General | -0.4 |
| 2. Specific | -0.4 |
| 3. Practical | -0.2 |

*7.5.3.4 The composite grade (Gc) is determined as follows:

$$G_c = (G_g \times W_g) + (G_s \times W_s) + (G_p \times W_p)$$

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Where:

- Gc = Composite grade
- Gg = Actual grade from general examination in percent
- Wg = Percentile weight of general examination
- Gs = Actual grade from specific examination in percent
- Ws = Percentile weight of specific examination
- Gp = Actual grade from practical examination in percent
- Wp = Percentile weight of practical examination

***7.5.3.5 Example:**

1. Test results obtained for Level I examination

General (Gg) = 87%
 Specific (Gs) = 93%
 Practical (Gp) = 90%

2. Percentile weight assigned for each examination

General (Wg) = 0.3
 Specific (Ws) = 0.4
 Practical (Wp) = $\frac{0.3}{1.0}$

3. Then: $Gc = (87 \times 0.3) + (93 \times 0.4) + (90 \times 0.3)$
 $Gc = 26.1 + 37.2 + 27.0$
 $Gc = 90.3\%$

7.5.4 Re-examination: Those failing to attain the required grades must wait at least 30 days and/or show evidence of having received suitable additional training, as determined by the NDT Level III Examiner.

7.5.5 Additionally, all written exams shall be generated by the Manager, ASBD-NDT or the Level III Examiner and shall be controlled such that they are available to other NDT personnel only as required while NDT personnel are being examined.

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PRINTS TO

MADE BY Robert Smith	APPROVALS	ASBD Schenectady	DIV OR DEPT.	ASBD-NDT 1101
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REV NO. 4	TITLE	CONT ON SHEET 19	SH NO. 18
ASBD-NDT 1101	ASBD-NDT PERSONNEL TRAINING, QUALIFICATION AND CERTIFICATION PROCEDURE	CNQA 9.2	
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8.0 Certification

- *8.1 Certification of all NDT personnel is the responsibility of the Manager, ASBD-NDT with approval by NDT Level III Examiner.
- 8.2 Certification of NDT personnel shall be based on demonstration of satisfactory qualification as determined by procedures outlined in Paragraphs 6.0 and 7.0.
- 8.3 On the basis of ability, achievement, education, training, and experience, as described in Paragraphs 5.5 and 6.7, the certification by examination may be waived for the NDT Level III individual. However, in such cases, the Letter of Appointment by the Manager, ASBD-NDT, shall state that certification was established without examination. Written certification and evidence supporting the certification shall be held in the ASBD-NDT, Schenectady Office and made available when verification is required.
- 8.4 At the option of ASBD-NDT, Schenectady, an outside agency may be engaged to provide NDT Level III services. In such instances, the responsibility of certification shall be retained by ASBD-NDT, Schenectady.
- 8.5 ASBD-NDT, Schenectady, shall be responsible for auditing the outside agency providing NDT Level III services to assure that their training examination and certification procedures are in accordance with this document. A written record of the audit shall be maintained at ASBD-NDT, Schenectady.
- *8.6 Certification records shall be kept on file in the ASBD-NDT, Schenectady Office. The certification records shall consist of the following:
- *8.6.1 Education and employment record, Form NDT-F-106 (Exhibit I).
 - *8.6.2 Individual NDT work experience record, Form NDT-F-103 (Exhibit II).
 - *8.6.3 Vision Tests, Form NDT-F-102 (Exhibit III).

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- *8.6.4 Certificate of Qualification, Form NDT-F-104 (Exhibit IV.)
- *8.6.5 Formal Training Certificate, Form NDT-F-105 or a classroom training certificate from an approved non-ASBD school, (Exhibit V).
- *8.6.6 Documents showing the results of practical exams, including descriptions of items tested.
- *8.6.7 Copies of current examinations and grades of previous examinations.

8.7 Re-Certification

8.7.1 All levels of NDT personnel shall be re-certified at least once every three years in accordance with the following criteria:

- *8.7.1.1 Evidence of continuing satisfactory performance.
- *8.7.1.2 Re-examination in accordance with Paragraphs 7.0 and 8.0.
- *8.7.1.3 Upon re-certification a 104 form is issued (Exhibit IV).

8.7.2 NDT personnel may be re-examined any time at the discretion of the NDT Level III Examiner and have their certification extended or revoked.

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8.7.3 NDT Level I and II personnel who have not been actively engaged in 30 hours of nondestructive testing activity per certified discipline for a period of six months shall require re-examination and re-certification. Re-examination shall be accomplished by administering a practical examination. The individual must score a minimum grade of 80% on the examination to be eligible for re-certification.

8.8 Revocation of Certification

8.8.1 The Manager, ASBD-NDT shall revoke the certification of any individual:

- *8.8.1.1. whose certifications in any given NDT method have expired.
- *8.8.1.2 whose eye examination has expired.
- *8.8.1.3 who meets the requirements of Paragraph 8.7.3 above.
- *8.8.1.4 who is judged to lack evidence of satisfactory performance.

9.0 Acceptance of NDT Certifications from Other General Electric Company Components

9.1 Individuals holding current NDT certifications from other General Electric components may be certified by ASBD-NDT, Schenectady, without re-examination provided the following criteria has been met:

- 9.1.1 Documented evidence of prior certification is presented and approved by the Manager, ASBD-NDT.
- 9.1.2 The individuals have been actively engaged in nondestructive examination within the last six months, in their applicable certification.
- 9.1.3 The NDT Personnel Qualification and Certification Program from the General Electric component issuing the certification meets the requirements of SNT-TC-1A, and satisfies the intent of this procedure as determined by the Manager, ASBD-NDT.

* Change ** Addition

PRINTS TO

MADE BY Robert Smith	APPROVALS <div style="border: 1px solid black; padding: 2px; display: inline-block;">ASBD -----Schenectady-----</div>	DIV OR DEPT. ASBD-NDT 1101	CONT ON SHEET 21 SH NO. 20
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REV NO. <div style="border: 1px solid black; padding: 2px; text-align: center;">ASBD-NDT 1101</div>	TITLE ASBD-NDT PERSONNEL TRAINING, QUALIFICATION AND CERTIFICATION PROCEDURE	CONT ON SHEET 22 SH NO. 21 <div style="border: 1px solid black; padding: 2px; text-align: center;">CNQA 9.2</div>
CONT ON SHEET 22 SH NO. 21	FIRST MADE FOR	

10.0 Acceptance of NDT Certifications from Other Companies

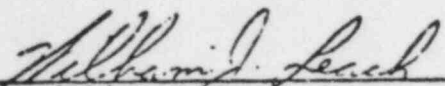
*10.1 Individuals holding current NDT certifications from other companies may be certified by ASBD-NDT provided all of the following criteria have been met:

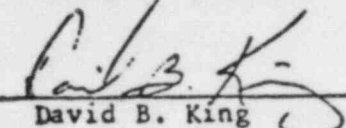
- 10.1.1 Documented evidence of prior certification is presented and approved by the Manager, ASBD-NDT.
- 10.1.2 Satisfactory completion of the general, specific and practical examinations for the method in which certification is to be given.
- 10.1.3 The NDT certification program from the company meets the requirements of SNT-TC-1A and satisfies the intent of this procedure as determined by the Manager, ASBD-NDT.
- 10.1.4 The individual was actively engaged in the methods to which he is being certified at least six months prior to his termination.
- 10.1.5 The individual is being certified within six months of his termination.

11.0 Termination

11.1 All certifications shall be automatically terminated when an employee leaves the Apparatus Service Business Division of the General Electric Company.

Approved by:


 William J. Leach,
 Manager, ASBD-NDT


 David B. King
 Level III Examiner

* Change ** Addition

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ASBD-NDT 1101
CONT ON SHEET 23 SH NO. 22

TITLE ASBD-NDT PERSONNEL TRAINING,
QUALIFICATION AND CERTIFICATION
PROCEDURE
FIRST MADE FOR

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GENERAL ELECTRIC COMPANY
APPARATUS SERVICE BUSINESS DIVISION

EDUCATION AND EMPLOYMENT RECORD

NAME	JOB TITLE	DATE			
I. EDUCATION: SCHOOLS, COLLEGES, AND NDT COURSES					
NAME AND LOCATION OF SCHOOL	DATE	TYPE OF COURSE			
II. NDT CERTIFICATION(S)					
COMPANY	METHOD	LEVEL			
		BY TEST YES NO			
		CODE OR SPEC.			
		DATE REC'D			
III. NDT EXPERIENCE					
JOB TITLE	WORK PERFORMED	FROM		TO	
		MO.	YR.	MO.	YR.

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NDT-F-106

EXHIBIT I

PRINTS TO

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CODE IDENT INC

REV NO. 4 ASBD-NDT 1101 CONT ON SHEET 25 SH NO. 24	TITLE ASBD-NDT PERSONNEL TRAINING, QUALIFICATION AND CERTIFICATION PROCEDURE FIRST MADE FOR CNQA 9.2
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GENERAL ELECTRIC COMPANY
 APPARATUS SERVICE BUSINESS DIVISION
 EYE TEST CERTIFICATION

Name	Pin Number	Location	Date
<u>Test Without Glasses</u>			
1. (Cover left eye)	Right Eye	Chart No. ____	
2. (Cover right eye)	Left Eye	Chart No. ____	
3.	Both Eyes	Chart No. ____	

Test With Glasses (If Applicable)

If bifocal, use lower set of lenses.

1. (Cover left eye)	Right Eye	Chart No. ____
2. (Cover right eye)	Left Eye	Chart No. ____
3.	Both Eyes	Chart No. ____

Color Vision

The following color discrimination test has been administered in accordance with the specific instructions accompanying the test.

☐ S. Ishihara
 ☐ American Optical

I certify that the above individual has been given the above eye tests and has/has not met the Jaeger No. 1 requirement and has passed/failed the indicated color vision test.

Comments:

Signed _____ Title _____ Date _____

Note: These tests comply with the American Society for Nondestructive Testing Recommended Practice No. SNT-TC-1A, June, 1975, Edition.

NDT-F-102

EXHIBIT III

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TITLE ASBD-NDT PERSONNEL TRAINING, QUALIFICATION AND CERTIFICATION PROCEDURE
FIRST MADE FOR

CNQA 9.2

GENERAL ELECTRIC

GENERAL ELECTRIC COMPANY, ONE RIVER ROAD, SCHENECTADY, NEW YORK 12345
Phone (518) 385-2211

APPARATUS
SERVICE
DIVISION

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CERTIFICATE OF QUALIFICATION

THIS IS TO CERTIFY THAT

_____ is qualified in accordance with the ASBD-NDT Training, Qualification and Certification Procedure No. 1101 which complies with the requirements of the American Society for Nondestructive Testing Recommended Practice No. SNT-TC-1A (June 1975 Edition). Certification is based on background, training, examination and evaluation of experience and performance in the NDT method indicated.

NDT Method	Level	Date	Expires
<u>Examination Results</u>			
	<u>Test Scores</u>	<u>Weight</u>	<u>Product</u>
General -	_____	X _____ =	_____
Specific -	_____	X _____ =	_____
Practical -	_____	X _____ =	_____
	Composite Grade _____		

Certified NDT Level III Examiner Date

Manager, Nondestructive Testing Date

NDT-F-104

EXHIBIT IV

PRINTS TO

MADE BY Robert Smith

APPROVALS

ASBD

DIV OR DEPT.

ASBD-NDT 1101

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GENERAL  ELECTRICGENERAL ELECTRIC COMPANY, ONE RIVER ROAD, SCHENECTADY, NEW YORK 12345
Phone (518) 385-2211APPARATUS
SERVICE
DIVISION

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THIS IS TO CERTIFY THAT

has completed a _____ hour course in _____ testing in accordance with the ASBD-NDT training, qualification and certification program and ASBD-NDT Training, Qualification, and Certification Procedure ASBD-NDT-1101, which meets the requirements of ASNT recommended practice number SNT-TC-1A (June 1975 Edition).

NDT Level III Examiner_____
Date_____
Manager ASBD-NDT_____
Date

NDT-F-105

EXHIBIT V

PRINTS TO

MADE BY	Robert Smith	APPROVALS	ASBD	DIV OR DEPT.	ASBD-NDT 1101	26
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