

## U.S. NUCLEAR REGULATORY COMMISSION

## STANDARD REVIEM

## PLAN

## TABLE 7-1 REGULATORY REQUIREMENTS, ACCEPTANCE CRITERIA, AND GUIDELINES FOR INSTRUMENTATION AND CONTROL SYSTEMS IMPORTANT TO SAFETY

## REVIEW RESPONSIBILITIES

Primary - _ Organization responsible for the review of instrumentation and controls

## Secondary - None

SRP Table 7-1 identifies the regulatory requirements (denoted by " $R$ "),
Review Note: The revision numbers of Regulatory Guides (RG) and SRP acceptance criteria (denoted by "A") and their applicability to the various sections of Chaptor 7the years of the safety analysis report (SAR).

Applicable requirements of 10 CFR Part 50, 10 CFR Part 52, 10 CFR Part 50 Appendix A General Design Criteria (GDC), IEEE Std 603-1991, "IEEE Standard Criteria for Safety Systems for Nuclear Power Generating Stations," along with the correction sheet dated danuary 30, 1995, and IEEE Std 279-1971, "Criteria for Protection Systems for Nuclear Power Generating Stations," establish the NRG requirements for the instrumentation and control (I\&G) systems important to safety.

The SRP Acceptance Criteria for implementation of these requirements are provided in the current versions of regulatory guides, the endorsed industry standards-, referenced in Standard Review Plan (SRP) Chapter 7, and branch technical positions (BTPs). These guidelines are not mandatory are centrally maintained in SRP Section 7.1-T (Table 7-1). Therefore, the individual revision numbers of RGs (except RG 1.97) and years of endorsed industry standards are not shown in individual SRP sections or branch technical positions (BTPs). References to industry standards incorporated by reference into regulation (IEEE Std 279-1971 and IEEE Std 603-1991) and

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## USNRC STANDARD REVIEW PLAN

This Standard Review Plan- (SRP) NUREG-0800, has been prepared to establish criteria that the U.S. Nuclear Regulatory Commission (NRC) staff responsible for the review of applications to construct and operate nuclear power plants intends to use in evaluating whether an applicant/licensee meets the NRC's regulations. The Standard Roview PlanSRP is not a substitute for the NRC'sNRC's_ regulations, and compliance with it is not required. However, an applicant is required to identify differences between the design features, analytical techniques, and procedural measures proposed for its facility and the SRP acceptance criteria and evaluate how the proposed alternatives to the SRP acceptance criteria provide an acceptable method of complying with the NRC regulations.
${ }_{4}$ The standard review plan sections are numbered in accordance with corresponding sections in Regulatory Guide (RG) $\mathbf{1} \mathbf{1 . 7 0}$, ""Standard Format and Content of Safety Analysis Reports for Nuclear Power Plants (LWR Edition).")." Not all sections of Regulatory Guiderg 1.70 have a corresponding review plan section. The SRP sections applicable to a combined license application for a new light-water reactor (LWR) are based on Regulatory Guiderg 1.206, ""combined License Applications for Nuclear Power Plants (LWR Edition).")."

These documents are made available to the public as part of the NRC's policy to inform the nuclear industry and the general public a of regulatory procedures and policies. Individual sections of NUREG-0800 will be revised periodically, as appropriate, to accommodate comments and to reflect new information and experience. Comments may be submitted electronically by email to NRRNRO, SRP@nrc.gov.

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industry standards that are not endorsed by the agency do include the associated year in the SRP Chapter 7 sections or BTPs. See Table 7-1 to ensure that the appropriate RGs and endorsed industry standards are used for the review.

The SRP Table 7-1 identifies the regulatory requirements (denoted by "R"), and SRP acceptance criteria (denoted by "A") and their applicability to the various sections of Chapter 7 of the safety analysis report (SAR).

Applicable requirements of Title 10 of the Code of Federal Regulations (10 CFR) Part 50, "Domestic Licensing of Production and Utilization Facilities," 10 CFR Part 52, "Licenses, Certifications, and Approvals for Nuclear Power Plants." 10 CFR Part 50, Appendix A, "General
Design Criteria for Nuclear Power Plants," 10 CFR 50.34(f)(2), 10 CFR 50.55a(h), and 10 CFR 50.62 establish the U.S. Nuclear Regulatory Commission (NRC) technical requirements for the instrumentation and control (I\&C) systems important to safety. 10 CFR 50.55a(a)(2)

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incorporates by reference Institute of Electrical \& Electronics Engineers (IEEE) Standard (Std) 603-1991, "IEEE Standard Criteria for Safety Systems for Nuclear Power Generating Stations," along with the correction sheet dated January 30, 1995, and IEEE Std 279-1971, "Criteria for Protection Systems for Nuclear Power Generating Stations." 10 CFR 50.55a(h) requires compliance to IEEE Std 603-1991, along with the correction sheet dated January 30, 1995, or to IEEE Std 279-1971.

The SRP acceptance criteria for implementation of these requirements are provided in the current versions of RGs, the endorsed industry standards, SRP Chapter 7, and branch technical positions (BTPs). These guidelines are not mandatory but set forth acceptable methods of implementing the regulatory requirements. The BTPs listed in SRP Table 7-1 are contained in SRP Appendix 7-A. The BTPs are used when study of a particular design problem identified an acceptable solution. The guidance of BTPs also areis not mandatory. In all cases, the primary basis for acceptance of the design is conformance to the regulatory requirements.

Industry standards that are not endorsed by regulatory guidesRGs, incorporated in regulations, referenced in BTPs, or that have not been previously used and accepted in the licensing process, must be reviewed before they can be accepted as a sole basis for approval of a design. They may be useful as guidance for identifying the subjects of importance to be considered in the review of the systems important to safety.

Three Mile Island (TMI) action planAction Plan requirements for I\&C systems important to safety are imposed by 10 CFR 50.34(f)), "Contents of Applications; Technical Information,", for applications pending as of February 16, 1982. ${ }^{4}$ For operating reactors that had approved construction permits prior to February 16, 1982, the TMI action planAction Plan requirements were imposed by Ordersorders that required conformance with NUREG-0718, "Licensing Requirements for Pending
Applications for Construction Permits and Manufacturing
License," NUREG-0737, "Clarification of TMI Action Plan Requirements," NUREG-0737, Supplement 1, "Clarification of TMI Action Plan Requirements - Requirements for Emergency Response Capability," and NUREG-0694,
"TMI-Related Requirements for New Operating Reactor Licenses." Table 7.1 identifies both the 10 CFR and TMI action planAction Plan reference numbers for the TMI action planAction Plan requirements relevant to Chapter 7 of the SAR. The action plan references are given in brackets under the reference to the equivalent requirement of 10 CFR 50.34(f). SRP Appendix 7.1-A presents specific acceptance criteria for TMI action planAction Plan items. However, important context information is found in the concepts contained in the referenced reports.

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## Table

T-7-1-Regulatory Requirements (R), and SRP Acceptance-Criteria (A)- 2 Draft Revision 6
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Table 7-1. Regulatory Requirements (R) and SRP Acceptance Criteria (A)
for Instrumentation and Control Systems Important to Safety

| Criteria |  | Title or Subject | Applicability to SAR, Chapter 7 |  |  |  |  |  |  |  | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. 10 CFR Parts 50 and 52 |  |  |  |  |  |  |  |  |  |  |  |
| a. | $\begin{aligned} & 50.55 \mathrm{a}(\mathrm{a})(1) 54(\mathrm{j}) \text { and } \\ & 50.55(\mathrm{i}) \end{aligned}$ | Quality Standards for Systems Important to Safety | R | R | R | R | R | R | R | $\mathrm{R}_{-}$ |  |
| b. | $50.55 \mathrm{a}(\mathrm{h})(2)$ | Protection Systems (IEEE Std 603-1991 or dEEE Std 279-1971) | R | $\mathrm{R}_{-}$ | * | -* | * * | * | -* |  | See SRP Appendix 7.1-C or <br> Appendix 7.1-B |
| ${ }_{\sim}^{\text {c. }}$ | $50.55 \mathrm{a}(\mathrm{h})(3)$ | Safety Systems (IEEE Std 603-1991) |  |  | A | - | - ${ }_{\text {- }}$ | ${\underset{A}{A}}_{*}^{*}$ |  | ${ }^{* *}$ | See SRP Appendix 7.1-C |
| d. | $50.34(\mathrm{f})(2)(\mathrm{v})[\mathrm{II}$ D. 3 ] $\ldots$ | Bypass and Inoperable Status Indication | R | $R_{-}$ |  | R | R | -- | - - | $\underbrace{* *}_{-}$ | See NUREGs -0718, -0737, -0737 Supplement 1, and -0694 |
| e. | $50.34(\mathrm{f})(2)($ (xi) [II.D.3] _ - | Direct Indication of Relief and Safety Valve Position |  |  |  | R |  |  |  |  | See NUREGs -0718, -0737, -0737 <br> Supplement 1, and -0694 |
| f. | $50.34(f)(2)($ (xii) [II.E. 1.2$]$ | Auxiliary Feedwater System Automatic Initiation and Flow Indication |  | R |  | $R^{R}$ | - - | - | - - | -- | Applies only to PWRs. See NUREG -0718, -0737, and -0694 |
| g. | $50.34(f)(2)($ xvii) [III.F.1] _ | Accident Monitoring Instrumentation |  |  |  | R | -- | -- | - - | -- | See NUREGs 0718, -0737 Supplement 1, and -0694 |
| h. | $50.34(\mathrm{f})(2)(\mathrm{xviii)}$ [II.F.2] | Instrumentation for the Detection of Inadequate Core Cooling |  |  |  | R | -- - |  |  |  | See NUREG-0694 |

* The IEEE Std 603-1991 requirement to provide adequate separation between protection and control functions (Clauses 5.6 .3 and 6.3 .1 ) apply to all instrumentation and control


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not required by NRC regulations, for non-safetynonsafety systems, the other criteria of IEEE Std 603-1991 address considerations such as design bases, redundancy, independence, single failures, qualification, bypasses, status indication, and testing that are used as guidance, where appropriate, for systems addressed in these sections of the
${ }^{* *}$ The data communication systems (DCS) addressed by SRP Section 7.9 are support systems for one or more of the systems addressed by SRP Section 7.2 through 7.8 . Acceptance criteria for a specific DCS derive from the acceptance criteria for the systems supported by that DCS. The criteria marked as ** are likely to apply to the DCS in one or more possible DCS applications. SRP Section 7.9 provides more detailed guidance on the applicability of these criteria to specific DCS applications.
At The requirements of IEEE Std 603-1991 apply to the functions of these systems which are relied upon to remain functional during and following design basis events to ensure: (i)
the integrity of the reactor coolant pressure boundary, (ii) the capability to shut down the reactor and maintain it in a safe shutdown condition, (iii) the capability to prevent the integrity of the reactor coolant pressure boundary, (ii) the capability to shut down the reactor and maintain it in a safe shutdown condition, or (iii) the capability to prevent or mitigate the consequences of accidents that could result in potential off-site exposures comparable to the 10 CFR Part 100, "Reactor Site Criteria,", guidelines.

Table 7-1. Regulatory Requirements (R) and SRP Acceptance Criteria (A) for Instrumentation and Control Systems Important to Safety (Cont.)

|  | Criteria | Title or Subject | Applicability to SAR, Chapter 7 |  |  |  |  |  |  | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - | 1. 10 CFR Parts 50 and 52 (cont.)50.34(f)(2)(xiv) [II.E.4.2] | Containment Isolation Systems | R | , | , | $\wedge$ | - | , |  | See NUREG-0737 |
| i.j. | 50.34(f)(2)(\%)(\%xix) [II.E.4.2]f.3] | Instruments for Monitoring Plant Conditions <br> Following Core Damage Containment Isolation Systems | R |  | R |  |  |  |  | See NUREG-07370718 |
| j̇-k. | 50.34(f)(2)(\%)(*)*x)[ [1.F.3]G.1] | Power for Pressurizer Leve Indication and Controls for Pressurizer Relief and Block Valves Instruments for Monitoring Plant Gonditions <br> Following Core Damage |  | R | R |  | -- | - |  | Applies only to PWRs. Soe NURE G- 07370718 |
| k.ı. | 50.34(f)(2)(XXXxii) [II.G.1]K.2.9] | Failure Mode and Effect Analysis of <br> Integrated <br> Control SystemPower for <br> Pressurizer Level <br> Indication and <br> Controls for Prossurizer | ------ | -R | R |  | R | -- |  | Applies only to <br> PWRS.B\&W plants. See <br> NUREGNUREGs - <br> 0718, -0737, and -0694 |

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Table 7－1．Regulatory Requirements（R）and SRP Acceptance Criteria（A） for Instrumentation and Control Systems Important to Safety（Cont．）

|  |  | Relief and Block Valves |  |  |  |  |  |  |  |  |  |
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| t．m． | $50.34(f)(2)($（xxii）$[$（xxii）［｜I．K．2．9］10］ | Anticipatory Trip on Loss of Main <br> Feedwater or <br> Turbine Trip Eailure Modo and Effect Andycis of Integrated <br> fontrol Systom | R |  |  |  |  | R |  |  | $\begin{array}{\|l\|} \hline \text { Applies only to B\&W } \\ \text { plants. See } \\ \text { NUREGs -0718,-0737 } \\ \text { and -0694 } \end{array}$ |
| m．n． | $50.34(\mathrm{f})(2)(\mathrm{xxiii})$ ）（xxiv） ［II．K．Z．10］3．23］ | Central Reactor Vessel Water Level Recording Anticipatory Trip on Loss of Main Feedwater or Iurbine Trip | R |  |  | R |  |  |  |  | Applies only to B\＆W plants．BWRs． See NUREGs－nUREG－ 0718 0737 and－0694 |
| A．o． | $\begin{aligned} & 50.34(f)(2)(\text { rxiv) } \\ & \text { [II.K.3.23]62 } \end{aligned}$ | Requirements for Reduction of Risk from <br> Anticipated Transients without Scram <br> Gentral Reactor Vessel Water Level Recording |  |  |  | R |  |  | R | ＊＊ | Applies only to BWRs． <br> SēenNUREG－0718 |
| O－p． | 50．6252．47（b）（1） | Inspections，Tests，Analyses，and Acceptance <br> Criteria）for Standard Design Certification Requirements fof Roduction R Risk from Anticipated Transients withou Scram | R | R | R | R | R | R | R | －＊＊$B$ |  |
| P．q． | $52.47(\mathrm{~b})(1) 80$（a） | ITAAC for Standard Design CertificationInspections，Tests， Analyses，and Acceptance Criteria for Combined Licensee Applications | $\underline{R}=====$ | R | $\mathrm{R}^{R}$ | R | R | $\underline{R}$ | $\stackrel{R}{R}$ | R $=$ | ここここここここここここ＝ |
| $\begin{aligned} & \text { q.2. } \\ & \text { Desi } \end{aligned}$ | 10 CFR Part 50，Appendix A，General gn Criteria | 52．80（a）－．ITAAC fo <br> Combine <br> Licensee <br> Applicatie | $\begin{aligned} & \text { of } \\ & \text { ons } \end{aligned}$ | R | R | R | R | R | R | R | R－－＝＝＝＝＝＝＝ |

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Table 7-1. Regulatory Requirements (R) and SRP Acceptance Criteria (A) for Instrumentation and Control Systems Important to Safety (Cont.)

| h. | GDC 19 | Control Room | R_ | R | R | _R | R | R | _R | ${ }^{* *}{ }^{*}$ |  |
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| j. | GDC 20 | Protection System Functions | R | R |  |  |  |  |  |  |  |
| j. | GDC 21 | Protection Systems Reliability and Testability | $\mathrm{R}_{-}$ | R |  |  |  |  |  | ${ }^{* *}$ | F |
| k. | GDC $2 \underline{2}$ | Protection System Independence | _R | $R_{-}$ |  |  |  |  |  | ${ }^{* *}$ | 9 |
| 1. | GDC 23 | Protection System Failure Modes | $R_{-} R_{-}$ | R |  |  |  |  |  | ${ }^{* *}$ | m |
| m. | GDC 24 | Separation of Protection and Control Systems | R_ | R | $\xrightarrow{R}$ | $R^{R}$ | $R_{-}$ | R | R | $\mathrm{R}_{-}$ | * |
| n. | GDC 25 | Protection System Requirements for Reactivity Control Malfunctions | R_ |  |  |  | $R_{-}$ |  |  |  | - |
| $\bigcirc$. | GDC 28 | Reactivity Limits |  | -- |  |  | $R_{-}$ | R |  |  | -........................... |
| p. | GDC 29 | Protection Against Anticipated Operational Occurrences | R_ | R |  |  |  | R |  | ${ }^{* *}$ |  |
| q. | GDC 33 | Reactor Coolant Makeup |  | R |  |  | $R_{-}$ |  |  |  | - |
| I. | GDC 34 | Residual Heat Removal |  | $R^{R}$ | $\xrightarrow{R}$ |  | $R_{-}$ |  |  |  | 4 |
| s. | GDC 35 | Emergency Core Cooling |  | $R_{-}$ | $\xrightarrow{R}$ |  | $R_{-}$ |  |  |  | 宔 |
| t. | GDC 38 | Containment Heat Removal |  | $R_{-}$ | $\xrightarrow{R}$ |  | $R_{-}$ |  |  |  | 4 |
| ${ }_{\sim}^{\prime}$ | GDC 41 | Containment Atmosphere Cleanup |  | $R_{-}$ |  |  | $R_{-}$ |  |  |  | 4 |

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Table 7-1. Regulatory Requirements (R), and SRP Acceptance Criteria (A)
for Instrumentation and Control Systems Important to Safety (cont.)

| c. | Regulatory Guiderg 1.53, Revision 2, 11/2003, Reviewed 10/2011 | Application of the Single-Failure Criterion to Safety Systems | A | A | A | A | A |  |  | $\stackrel{*}{*}$ | See IEEE Std 379-2000 |
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| d. | Regulatory Guiderg 1.62, Revision 1, 06/2010 | Manual Initiation of Protection Actions | A | A |  |  |  |  | A |  |  |
| e. | Regulatory Guide 1.75 | Independence of Electrical Safety Systems | A | A | A | A | A | A | A | A | See IEEE Std 3841992 |
| f.e. | Regulatory Guiderg 1.9770, <br> Revision 3, | Instrumentationstandard Format and Content of Safety Analysis Reports̄ for Liğht Wafè Cooled <br> Nuclear Power Plants to Assess | A | A | A | A | A | A |  |  | See IEEE Std 497 2002 and BTP $7-10$ |
|  | 11/1978 <br> Reviewed 04/2009 | Plant Conditions During and Following an Accident and Criteria for <br> Accident Monitoring Instrumentation_ for Nuclear <br> Power Plants |  |  |  |  |  |  |  |  |  |
| g. | Regulatory Guide 1.105 | Setpoints for SafetyRelated Instrumentation | A | A | A | A | A | A | A | A | See ISA Std S67.04-1994 Part and BTP 7-12 |
| h.f. | Regulatory Guiderg. | Periodic TestingIndependence, of Electric Power and | A | A | A | A | A | $\stackrel{\text { A }}{ }$ | A | $\stackrel{* *}{=} \mathrm{A}$ | See IEEE STd 338- <br> 1987384-1992 |


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Table 7-1. Regulatory Requirements (R), and SRP Acceptance Criteria (A)
for Instrumentation and Control Systems Important to Safety (cont.)

|  | 1.11875, Revision <br> 3, <br> $02 / 2005$ | Protection <br> Electrical Safety Systems |  |  |  |  |  |  |  |  |
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| i. | Regulatory <br> Guide 1.151 | Instrument Sensing Lines | A | A | A | A | A | A | A | See ISA-S67.02- <br> 1980 |


| Criteria |  | Title or Subject | Applicability to SAR, Chapter 7 |  |  |  |  |  |  |  | Remarks |
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| 4. Regulatory Guides (cont.) |  |  |  |  |  |  |  |  |  |  |  |
| $j$ j.g. | Regulatory <br> Guiderg 1.15297, <br> Revision 2, <br> 12/1980, <br> Revision 3, 05/1983, <br> Revision 4, 06/2006 | Griteria for Use of Computers in Safety Systems of Instrumentation for Light Water Cooled Nuclear Power Plants to Assess Plant Conditions During and Following an Accident and Criteria for Accident Monitoring Instrumentation for Nuclear Power Plants | A | A | A | A | A | A | A | A | See <br> Revision 2: ANSI/ANS 4.5-1980 <br> Revision 3: ANSI/ANS 4.5-1980 <br> Revision 4: IEEE Std 7-4.3.2- <br> $2003497^{\text {TM }}-2002$ and <br> Appendix BTP 7 .1-D-10 |
| h. | RG 1.100, Revision 3, 09/2009 | Seismic Qualification of Electric and Mechanical Equipment for Nuclear Power Plants |  |  |  |  |  |  |  |  | See IEEE Std 344-2004 and ASME QME-1-2007 |
| k.i. | Regulatory <br> Guiderg 1.168105, <br> Revision 3, <br> 12/1999 | Verification, Validation, Reviews and Auditssetpoints for <br> Digital Computer Software Used in, Safety <br> Systems of Nuclear Power Plants- <br> Related Instrumentation | A | A | A | A | A | A | A | A | See IEEE Std 1012-1998ISA. S67.04-1994 Part land IEEE S£d 1028-1997BTPラ-12 |


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Table 7-1. Regulatory Requirements (R), and SRP Acceptance Criteria (A) for Instrumentation and Control Systems Important to Safety (cont.)

| L.j. | Regulatory <br> Guiderg 1.169118, <br> Revision 3, <br> 04/1995, Reviewed <br> 08/2012 | Configuration Management Plans for Digital <br> Computer Software Used in Safety Periodic Testing Systems-of Nuclear Electric Power Plantsand Protection Systems | A | A | A | A | A | -A | A | A** | See ANSILIEEE Std 828-183 and IEEE Std 1042338-1987 |
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| k. | RG 1.151, Revision 1 , 07/2010 | Instrument Sensing Lines | A | A | A | A | A | A | A |  | See ANSIIISA-67.02.01-1999 and IEEE Std 622-1987 |
| m.l. | Regulatory <br> Guiderg 1.170152, <br> Revision 3, <br> 07/2011 | Software Test DocumentationCriteria, for Digital Computer <br> Software UsedUse of Computers in Safety <br> Systems of <br> Nuclear <br> Power Plants | A | A | A | A | A | A | A | A | See IEEE Std 829-19837-4.3.2-2003 and <br> Appendix 7.1-D |
| n.m. | Regulatory <br> Guiderg 1.171168, <br> Revision 2, <br> 07/2013 | Software Unit Testingverification, Validation, Reviews and Audits, for Digital Computer Software Used in Safety Systems of Nuclear Power Plants | A | A | A | A | A | A | A |  | See IEEE Std 1008-19871012-2004 and <br> IEEE Sta $102 \overline{8}-200 \mathrm{~B}$ |
| $\theta$-n. | Regulatory <br> Guiderg 1.172169, <br> Revision 1, <br> 07/2013 | Software Requirements <br> SpecificationsConfiguration Management Plans, for Digital <br> Computer Software Used in Safety Systems of Nuclear Power Plants | A | A | A | A | A | A | A | A | See_EEEStd 830-1993828-2005 = |
| p.o. | Regulatory Guiderg 1.173170, | Developing Software Life Cycle ProcessesTest Documentation for | A | A | A | A | A | A | A | A | See IEEE Std -1074-1995829-2008= |
|  | Revision 1, <br> 07/2013 | Digital Computer <br> Software Used in Safety <br> Systems of Nuclear <br> Power Plants | - |  |  |  | - | - |  | -- |  |


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Table 7-1. Regulatory Requirements (R), and SRP Acceptance Criteria (A) for Instrumentation and Control Systems Important to Safety (cont.)

| ¢. | Regulatory Guide $1.174$ | An Apprach for Using Probabilistic Risk <br> Assessment in Risk-Informed Decisions on PlantSpecific Changes to the Licensing Basis |  |  |  |  |  |  |  |  | Soo BTP 7-12 for applicability |
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| F. | Regulatory Guide 1.177 | An-Apprach for Plant-Specific Risk Informed Decision Making: Technical Specifications |  |  |  |  |  |  |  |  | SeeBTP 7-12 for applicability |


| Criteria |  | Title or Subject | Applicability to SAR, Chapter 7 |  |  |  |  |  |  |  |  |
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|  |  | Remarks |  |  |  |  |  |  |  |  |
| 4. Regulatory Guides (cont.)-p. | RG 1.171, Revision 1, 07/2013 |  | Software Unit Testing for Digital Computer Software Used in Safety Systems of Nuclear Power Plants | A | A | A | A | A | A | A | A | See ANSIIIEEE Std 1008-1987 (Reaffirmed 2002) |
| q. | RG 1.172, Revision 1, 07/2013 | Software Requirements Specifications for Digital <br> Computer Software Used in Safety Systems of Nuclear Power Plants | A | A | A | A | A | A | A | A | See IEEE Std 830-1998 |
| r. | RG 1.173, Revision 1, 07/2013 | Developing Software Life Cycle Processes for Digital Computer Software Used in Safety Systems of Nuclear Power Plants | A | A | A | A | A | A | A | A | See IEEE Std 1074-2006 |
| s. | RG 1.174, Revision 2, 05/2011 | An Approach for Using Probabilistic Risk Assessment in Risk-Informed Decisions on PlantSpecific Changes to the Licensing Basis |  |  |  |  |  |  |  |  | See BTP 7-12 for applicability |


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Table 7-1. Regulatory Requirements (R), and SRP Acceptance Criteria (A) for Instrumentation and Control Systems Important to Safety (cont.)

| t. | RG 1.177, Revision 1, 05/2011 | An Approach for Plant-Specific Risk-Informed Decision Making: Technical Specifications |  |  |  |  |  |  |  |  | See BTP 7-12 for applicability |
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| S-u. | Regulatory <br> Guiderg 1.180, <br> Revision 1, <br> 10/2003, Reviewed 06/2011 | ${ }^{\text {Guidelines for Evaluating Electromagnetic and }}$ Radio- Frequency Interference in SafetyRelated Instrumentation and Control Systems | A | A | A | A | A | A | A | A | IEEE Std 1050-1996, $\qquad$ <br> MIL-STT̄D-4̄61E-1999, <br> Series IEC 61000-3, Series IEC 61000-4, <br> Series IEC 61000-6, IEEE Std C62.41-1991 (reaffirmed in 1995), <br> IEEE Std C62.45-1992 (reaffirmed in 1997), and EPRI TR-102323-1996 |
| t.v. | Regulatory <br> Guiderg 1.189, <br> Revision 2, 10/2009 | Fire Protection for Operating Nuclear Power Plants |  |  | A |  |  | -- | - | - |  |
| H.w. | Regulatory <br> Guiderg 1.200, <br> Revision 2, $03 / 2009$ | An Approach for Determining the Technical Adequacy of Probabilistic Risk Assessment Results for Risk-Informed_Activities- | - - | - - | -- | - | - - | -- | -- | - | See BTP 7-12 for applicability |
| V. | Regulatory <br> Guide 1.204 | Guidelines for Lightning Protection of Nucteaf Power Plants | A | A | A | A | A | A | A | A |  |
| 5. Branch Technical Positions (BTP) |  |  |  |  |  |  |  |  |  |  |  |
| a. | BTP 7-1 | Guidance on Isolation of LowProscure Systoms from the High Prossure Reactor Coolant System |  |  |  |  | A |  |  |  |  |


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Table 7-1. Regulatory Requirements (R), and SRP Acceptance Criteria (A) for Instrumentation and Control Systems Important to Safety (cont.)

| b. | BTP 7-2 | Guidanco Requirements on <br> AMor Opod <br> Valves in the Emergency Core <br> Gooling System <br> Accumulator Lines |  |  |  | A |  |  |  |  |
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| e. | BTP 7-3 | Guidance on Protection System Trip Point <br> Changes for Operation with <br> Reactor Cootant <br> Pumpsour Service | A | A |  |  |  |  |  |  |
| d. | BTP $7-4$ | Guidance on Design Criteria for Auxiliary <br> Feedwater Systems |  | A |  |  |  |  |  |  |
| e. | BTP 7-5 | Guidance on Spurious Withdrawals of Single Control Rods in Prossurized Water Reactors | A |  |  | A | A |  |  |  |



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Table 7-1. Regulatory Requirements (R), and SRP Acceptance Criteria (A) for Instrumentation and Control Systems Important to Safety (cont.)

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| 9. | BTP 7-7 | Notused |  |  |  |  |  |  |  |  |  |
| h. | BTP 78 | Guidance on Application of Regulatory Guide 1.22 | A | A |  |  |  |  |  | ** |  |
| ¢. | BTP 7-9 | Guidance on Requirements for Reactor Protection <br> System/nticipatory Trips | A |  |  |  |  |  |  |  |  |
| j. | BTP 7-10 | Guidance on Application of Regulatory Guide 1.97 |  |  |  | A |  |  |  |  |  |
| k.x. | BTP 7-11Rg 1.204, <br> 11/2005, <br> Reviewed 12/2011 | Guidelines for Lightning Protection of Nuclear Power Plants Guidance on Application and Qualification of Isolation Devices | A | A | A | A | A | A | A | - **A | See IEEE Std 665-1995 $\qquad$ (reaffirmed 2001), IEEE Std 666-1991 (reaffirmed 1996), IEEE Std 1050-1996, and <br> IEEE Std C62.23-1995 (reaffirmed 2001) |
| t.y. | BTP 7-12RG 1.206, <br> 2007 | Combined License Applications for Nuclear Power Plants (LWR Edition) Guidance on Establishing and Maintaining Instrum Setpoints | A | A | A | A | A | A | A | A | COL applications |
| z. | RG 1.209, 03/2007, Reviewed 06/2013 | Guidelines for Environmental Qualification of Safety-Related Computer-Based Instrumentation and Control Systems in Nuclear Power Plants | A | A | A | A | A | A | A | A | See IEEE Std 323-2003 |
| 5. Branch Technical Positions (BTP) |  |  |  |  |  |  |  |  |  |  |  |

Table 7-1. Regulatory Requirements (R), and SRP Acceptance Criteria (A)
for Instrumentation and Control Systems Important to Safety (cont.)

| a. | BTP 7-1 | Guidance on Isolation of Low-Pressure Systems from the High-Pressure Reactor Coolant System |  |  |  |  | A |  |  |  |  |
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| b. | BTP 7-2 | Guidance on Requirements on Motor-Operated Valves in the Emergency Core Cooling System Accumulator Lines |  |  |  |  | A |  |  |  |  |
| m.c. | BTP 7-133 | Guidance on Cross-Calibration of Protection <br> System Trip Point <br> Changes for Operation with Reactor Coolant <br> Pumps Out of ServiceResistance <br> Temperature Detectors | A | A | A | A | = |  |  |  |  |
| d. | BTP 7-4 | Guidance on Design Criteria for Auxiliary Feedwater Systems |  | A |  |  |  |  |  |  |  |
| A.e. | BTP 7-146 | Guidance on Software-Reviews for <br> Digitat <br> Computer-BasedDesign of Instrumentation and <br> Controls Provided to Accomplish Changeover from <br> Injection to Recirculation ModeControl <br> Systems | A | A | A | A | A | A | A | A |  |
| 0. | BTP 715 | Notused |  |  |  |  |  |  |  |  |  |
| $p$. | BTP 7-16 | Not used |  |  |  |  |  |  |  |  |  |
| q-f. | BTP 7-175 | Guidance on Self-Test and Surveillance <br> TestSpurious Withdrawals of Single <br> Control Rods in Pressurized Water | A | A | A | A | A | A | A | A |  |


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Table 7-1. Regulatory Requirements (R), and SRP Acceptance Criteria (A) for Instrumentation and Control Systems Important to Safety (cont.)

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|  | Criteria | Title or Subject |  |  | $6$ | 1 |  | 7.8 |  |  | Remarks |
| g. | BTP 7-7 | Not used |  |  |  |  |  |  |  |  |  |
| h. | BTP 7-8 | Guidance on Application of RG 1.22 | A | A |  |  |  |  |  | ${ }^{* *}$ |  |
| i. | BTP 7-9 | Guidance on Requirements for Reactor Protection System Anticipatory Trips | A |  |  |  |  |  |  |  |  |
| J. | BTP 7-10 | Guidance on Application of RG 1.97 |  |  |  | A |  |  |  |  |  |
| k. | BTP 7-11 | Guidance on Application and Qualification of Isolation Devices | A | A | A | A | A | A | A | ** |  |
| 1. | BTP 7-12 | Guidance on Establishing and Maintaining Instrument Setpoints | A | A | A | A | A | A | A | A |  |
| m. | BTP 7-13 | Guidance on Cross-Calibration of Protection System Resistance Temperature Detectors | A | A | A | A |  |  |  |  |  |
| n. | BTP 7-14 | Guidance on Software Reviews for Digital Computer-Based Instrumentation and Control Systems | A | A | A | A | A | A | A | A |  |
| 0. | BTP 7-15 | Not used |  |  |  |  |  |  |  |  |  |


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Table 7-1. Regulatory Requirements (R), and SRP Acceptance Criteria (A)
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| p. | BTP 7-16 | Not used |  |  |  |  |  |  |  |  |  |
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| q. | BTP 7-17 | Guidance on Self-Test and Surveillance Test Provisions | A | A | A | A | A | A | A | A |  |
| $r$. | BTP 7-18 | Guidance on Use of Programmable Logic Controllers in Digital Computer-Based Instrumentation and Control Systems | A | A | A | A | A | A | A | A |  |
| 5. BTP (cont.) |  |  |  |  |  |  |  |  |  |  |  |
| s. | BTP 7-19 | Guidance on Evaluation of Diversity and Defensein-Depth in Digital Computer-Based Instrumentation and Control Systems | A | A |  |  |  | A | A | A |  |
| t. | BTP 7-20 | Not used |  |  |  |  |  |  |  |  |  |
|  |  |  | $\begin{array}{ccccc}\text { Applicability } & \text { to SAR, Chapter } & 7.2 \\ 7.3 & 7.4 & 7.6\end{array}$ |  |  |  |  |  |  |  | Remarks |
|  |  |  |  |  |  |  |  |  | 7.9 |  |  |
| $\mu$ | BTP 7-21 | Guidance on Digital Computer Real-Time Performance | A | A | A | A | A | A | A | A |  |


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Table 7-1. Regulatory Requirements (R) and SRP Acceptance Criteria (A) for Instrumentation and Control Systems Important to Safety (Cont.)

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## T-7-1-11 <br> Draft Revision 6 - August 2015 <br> SRP Table 7-1 <br> Description of Changes

## SRP Table 7-1, "Regulatory Requirements, Acceptance Criteria, and Guidelines for Instrumentation and Control Systems Important to Safety"

This SRP Section affirms the technical accuracy and adequacy of the guidance previously provided in SRP Table 7-1, Revision 5-, dated March 2007. See ADAMS Accession Number ML070460342.

The main purpose of this update is to incorporate the revised software Regulatory Guides and the associated endorsed standards. For organizational purposes, the revision number of each Regulatory Guide and year of each endorsed standard is now listed in one place, Table 7-1. As a result, revisions of Regulatory Guides and years of endorsed standards were removed from other SRP Chapter 7 sections, as applicable. For standards that are incorporated by reference into regulation (IEEE Std 279-1971 and IEEE Std 603-1991) and standards that have not been endorsed by the agency, the associated revision number or year is still included in other SRP Chapter 7 sections, as applicable.

The footnote on page T-7-1-2 referring to Part 50 licensing requirements for plants not listed in 10 CFR 50.34(f), "Additional TMI-Related Requirements," was deleted.

Part of 10 CFR was reorganized due to a rulemaking in the fall of 2014. Quality requirement discussions in the former 10 CFR 50.55a(a)(1) were moved to 10 CFR 50.54(jj) and 10 CFR 50.55(i). The incorporation by reference language in the former 10 CFR 50.55a(h)(1) was moved to 10 CFR 50.55a(a)(2). There were no changes either to 10 CFR 50.55a(h)(2) or 10 CFR 50.55a(h)(3).

Additional changes were editorial.

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[^0]:    ${ }^{4}$ For Part 50 applications not listed in 10 CFR $50.34(\mathrm{f})$, the provisions of $50.34(\mathrm{f})$ will be made requirements during the

