

1 *General Directions: This model safety evaluation (SE) provides the format and content to be*
2 *used when preparing the plant-specific SE of a license amendment request to adopt TSTF-541,*
3 *Revision 2. The **bolded** bracketed information shows text that should be filled in for the specific*
4 *amendment; individual licensees would furnish site-specific nomenclature or values for these*
5 *bracketed items. The italicized wording provides guidance on what should be included in each*
6 *section. The italicized wording should not be included in the SE.*

7
8 DRAFT MODEL SAFETY EVALUATION

9 BY THE OFFICE OF NUCLEAR REACTOR REGULATION

10 TECHNICAL SPECIFICATIONS TASK FORCE TRAVELER

11 TSTF-541, REVISION 2

12 “ADD EXCEPTIONS TO SURVEILLANCE REQUIREMENTS FOR VALVES AND DAMPERS

13 LOCKED IN THE ACTUATED POSITION”

14 USING THE CONSOLIDATED LINE ITEM IMPROVEMENT PROCESS

15 (EPID L-20XX-LLA-XXXX)

16
17
18 1.0 INTRODUCTION

19
20 By application dated **[enter date]** (Agencywide Documents Access and Management System
21 (ADAMS) Accession No. **[MLXXXXXXXXXX]**), **[as supplemented by letter(s) dated [enter**
22 **date(s)]], [name of licensee]** (the licensee) submitted a license amendment request (LAR) for
23 **[name of facility or facilities (abbreviated name(s)), applicable unit(s)]**.

24
25 The amendment would revise certain Surveillance Requirements (SRs) in the Technical
26 Specifications (TSs) by adding an exception to the SR for automatic valves or dampers that are
27 locked, sealed, or otherwise secured in the actuated position.

28
29 The proposed amendment is based on Technical Specifications Task Force (TSTF) traveler
30 TSTF-541, Revision 2, “Add Exceptions to Surveillance Requirements for Valves and Dampers
31 Locked in the Actuated Position,” dated August 28, 2019 (ADAMS Accession
32 No. ML19240A315). The U.S. Nuclear Regulatory Commission (NRC or the Commission)
33 approved TSTF-541, Revision 2, by letter dated **[enter date (ADAMS Accession**
34 **No. ML19XXXXXXXX)]**. The NRC staff’s safety evaluation (SE) of the traveler is included with
35 the NRC staff’s approval letter.

36
37 **[The licensee has proposed variations from the TS changes described in traveler**
38 **TSTF-541, Revision 2. The variations are described in Section [2.2.1] of this SE and**
39 **evaluated in Section [3.1].]**

40
41 **[The supplemental letter(s) dated [enter date(s)], provided additional information that**
42 **clarified the application, did not expand the scope of the application as originally**

1 **noticed, and did not change the NRC staff's original proposed no significant hazards**
2 **consideration determination as published in the *Federal Register* on [enter date] (cite FR**
3 **reference).]**

4
5 2.0 REGULATORY EVALUATION

6
7 2.1 System Descriptions

8
9 *{NOTE: For B&W plant designs, use these paragraphs.}*

10
11 The **[spray additive system]** is a subsystem of the **[containment spray]** system that assists in
12 reducing the iodine fission product inventory in the containment atmosphere resulting from a
13 design-basis accident (DBA). In the event of an accident such as a loss-of-coolant accident
14 (LOCA), the **[spray additive system]** will be automatically actuated upon a high containment
15 pressure signal by the **[engineered safety features actuation system (ESFAS)]**. The
16 purpose of SR **[3.6.7.4]** is to verify that each automatic valve in the **[spray additive system]**
17 flow path actuates to its correct position upon receipt of an actual or simulated actuation signal.
18

19 The **[emergency ventilation system (EVS)]** filters air from the area of the active emergency
20 core cooling system (ECCS) components during the recirculation phase of a LOCA. Ductwork,
21 valves or dampers, and instrumentation also form part of the system. During emergency
22 operations, the **[EVS]** dampers are realigned, and fans are started to begin filtration. Upon
23 receipt of the actuation signal(s), normal air discharges from the negative pressure area are
24 isolated, and the stream of ventilation air discharges through the system filter trains. The
25 prefilters remove any large particles in the air, and any entrained water droplets present, to
26 prevent excessive loading of the high-efficiency particulate air (HEPA) filters and charcoal
27 adsorbers. The purpose of SR **[3.7.12.3]** is to verify proper actuation of all train components,
28 including dampers, on an actual or simulated actuation signal. The purpose of SR **[3.7.12.5]** is
29 to ensure that the system is functioning properly by operating the **[EVS]** filter bypass damper.
30

31 The **[fuel storage pool ventilation system (FSPVS)]** provides negative pressure in the fuel
32 storage area, and filters airborne radioactive particulates from the area of the fuel pool following
33 a fuel handling accident. The **[FSPVS]** consists of portions of the normal **[fuel handling area**
34 **ventilation system (FHAVS)]**, the station **[EVS]**, ductwork bypasses, and dampers. The
35 portion of the normal **[FHAVS]** used by the **[FSPVS]** consists of ducting between the spent fuel
36 pool and the normal **[FHAVS]** exhaust fans or dampers, and redundant radiation detectors
37 installed close to the suction end of the **[FHAVS]** exhaust fan ducting. The purpose of
38 SR **[3.7.13.3]** is to verify proper actuation of all train components, including dampers, on an
39 actual or simulated actuation signal. The purpose of SR **[3.7.13.5]** is to ensure that the system
40 is functioning properly by operating the **[FSPVS]** filter bypass damper.
41

42 The **[control room emergency ventilation system (CREVS)]** provides a protected
43 environment from which occupants can control the unit following an uncontrolled release of
44 radioactivity, hazardous chemicals, or smoke. The purpose of SR **[3.7.10.3]** is to verify that
45 each train/subsystem starts and operates on an actual or simulated actuation signal.
46

47 *{NOTE: For Westinghouse plant designs, use these paragraphs.}*

48
49 The **[control room emergency filtration system (CREFS)]** provides a protected environment
50 from which occupants can control the unit following an uncontrolled release of radioactivity,

1 hazardous chemicals, or smoke. The purpose of SR **[3.7.10.3]** is to verify that each
2 train/subsystem starts and operates on an actual or simulated actuation signal.

3
4 The **[shield building air cleanup system (SBACS)]** is required to ensure that radioactive
5 materials that leak from the primary containment into the shield building (secondary
6 containment) following a design-basis accident (DBA) are filtered and adsorbed prior to
7 exhausting to the environment. The containment has a secondary containment called the shield
8 building, which is a concrete structure that surrounds the steel primary containment vessel.
9 Between the containment vessel and the shield building inner wall is an annular space that
10 collects any containment leakage that may occur following a loss-of-coolant accident (LOCA).
11 The **[SBACS]** establishes a negative pressure in the annulus between the shield building and
12 the steel containment vessel. Filters in the system then control the release of radioactive
13 contaminants to the environment. The **[SBACS]** consists of two separate and redundant trains.
14 Each train includes a heater, cooling coils, a prefilter, moisture separators, a high-efficiency
15 particulate air (HEPA) filter, an activated charcoal adsorber section for removal of radioiodines,
16 and a fan. Ductwork, valves and/or dampers, and instrumentation also form part of the system.
17 The system initiates and maintains a negative air pressure in the shield building by means of
18 filtered exhaust ventilation of the shield building following receipt of a safety injection signal.
19 The purpose of SR **[3.6.13.3]** is to verify proper actuation of all train components, including
20 dampers, on an actual or simulated actuation signal. The purpose of SR **[3.6.13.4]** is to ensure
21 that the system is functioning properly by operating the filter bypass damper.

22
23 The **[iodine cleanup system (ICS)]** is provided to reduce the concentration of fission products
24 released to the containment atmosphere following a postulated accident. The **[ICS]** would
25 function together with the **[containment spray and cooling systems]** following a DBA to
26 reduce the potential release of radioactive material, principally iodine, from the containment to
27 the environment. The **[ICS]** consists of two 100-percent capacity, separate, independent, and
28 redundant trains. Each train includes a heater, cooling coils, a prefilter, a demister, a HEPA
29 filter, an activated charcoal adsorber section for removal of radioiodines, and a fan. Ductwork,
30 valves and/or dampers, and instrumentation also form part of the system. The system initiates
31 filtered recirculation of the containment atmosphere following receipt of a safety injection signal.
32 The purpose of SR **[3.6.11.3]** is to verify proper actuation of all train components, including
33 dampers, on an actual or simulated actuation signal. The purpose of SR **[3.6.11.4]** is to ensure
34 that the system is functioning properly by operating the **[ICS]** filter bypass damper.

35
36 The **[emergency core cooling system pump room exhaust air cleanup system (ECCS
37 PREACS)]**, in conjunction with other normally operating systems, also provides environmental
38 control of temperature and humidity in the ECCS pump room area and the lower reaches of the
39 auxiliary building. Ductwork, valves or dampers, and instrumentation also form part of the
40 system, as well as demisters functioning to reduce the relative humidity of the air stream.
41 During emergency operations, the **[ECCS PREACS]** dampers are realigned, and fans are
42 started to begin filtration. Upon receipt of the actuating **[engineered safety feature actuation
43 system (ESFAS)]** signal(s), normal air discharges from the ECCS pump room isolate, and the
44 stream of ventilation air discharges through the system filter trains. The prefilters or demisters
45 remove any large particles in the air, and any entrained water droplets present, to prevent
46 excessive loading of the HEPA filters and charcoal adsorbers. The purpose of SR **[3.7.12.3]** is
47 to verify proper actuation of all train components, including dampers, on an actual or simulated
48 actuation signal. The purpose of SR **[3.7.12.5]** is to ensure that the system is functioning
49 properly by operating the **[ECCS PREACS]** filter bypass damper.

50

1 The **[fuel building air cleanup system (FBACS)]** filters airborne radioactive particulates from
2 the area of the fuel pool following a fuel handling accident or LOCA. The **[FBACS]**, in
3 conjunction with other normally operating systems, also provides environmental control of
4 temperature and humidity in the fuel pool area. The **FBACS** consists of two independent and
5 redundant trains. Each train consists of a heater, a prefilter or demister, a HEPA filter, an
6 activated charcoal adsorber section for removal of gaseous activity (principally iodines), and a
7 fan. Ductwork, valves or dampers, and instrumentation also form part of the system, as well as
8 demisters, functioning to reduce the relative humidity of the airstream. The system initiates
9 filtered ventilation of the fuel handling building following receipt of a high-radiation signal. The
10 **[FBACS]** is a standby system, parts of which may also be operated during normal plant
11 operations. Upon receipt of the actuating signal, normal air discharges from the building, the
12 fuel handling building is isolated, and the stream of ventilation air discharges through the system
13 filter trains. The purpose of SR **[3.7.13.3]** is to verify proper actuation of all train components,
14 including dampers, on an actual or simulated actuation signal. The purpose of SR **[3.7.13.5]** is
15 to ensure that the system is functioning properly by operating the **[FBACS]** filter bypass
16 damper.

17
18 The **[penetration room exhaust air cleanup system (PREACS)]** filters air from the
19 penetration area between containment and the auxiliary building. The **[PREACS]** consists of
20 two independent and redundant trains. Each train consists of a heater, a prefilter or demister, a
21 HEPA filter, an activated charcoal adsorber section for removal of gaseous activity (principally
22 iodines), and a fan. Ductwork, valves or dampers, and instrumentation, as well as demisters,
23 functioning to reduce the relative humidity of the air stream, also form part of the system. The
24 **[PREACS]** is a standby system, parts of which may also operate during normal unit operations.
25 Upon receipt of the actuating signal(s), the **[PREACS]** dampers are realigned and fans are
26 started to initiate filtration. The purpose of SR **[3.7.14.3]** is to verify proper actuation of all train
27 components, including dampers, on an actual or simulated actuation signal. The purpose of
28 SR **[3.7.14.5]** is to ensure that the system is functioning properly by operating the **[PREACS]**
29 filter bypass damper.

30
31 *{NOTE: For CE plant designs, use these paragraphs.}*

32
33 The **[control room emergency air cleanup system (CREACS)]** provides a protected
34 environment from which occupants can control the unit following an uncontrolled release of
35 radioactivity, hazardous chemicals, or smoke. The purpose of SR **[3.7.11.3]** is to verify that
36 each train/subsystem starts and operates on an actual or simulated actuation signal.

37
38 The **[shield building exhaust air cleanup system (SBEACS)]** is required to ensure that
39 radioactive materials that leak from the primary containment into the shield building (secondary
40 containment) following a design-basis accident (DBA) are filtered and adsorbed prior to
41 exhausting to the environment. The containment has a secondary containment called the shield
42 building, which is a concrete structure that surrounds the steel primary containment vessel.
43 Between the containment vessel and the shield building inner wall is an annular space that
44 collects any containment leakage that may occur following a loss-of-coolant accident (LOCA).
45 The **[SBEACS]** establishes a negative pressure in the annulus between the shield building and
46 the steel containment vessel. Filters in the system then control the release of radioactive
47 contaminants to the environment. The **[SBEACS]** consists of two separate and redundant
48 trains. Each train includes a heater, cooling coils, a prefilter, moisture separators, a
49 high-efficiency particulate air (HEPA) filter, an activated charcoal adsorber section for removal
50 of radioiodines, and a fan. Ductwork, valves and/or dampers, and instrumentation also form

1 part of the system. The system initiates and maintains a negative air pressure in the shield
2 building by means of filtered exhaust ventilation of the shield building following receipt of a
3 safety injection signal. The purpose of SR **[3.6.8.3]** is to verify proper actuation of all train
4 components, including dampers, on an actual or simulated actuation signal. The purpose of
5 SR **[3.6.8.4]** is to ensure that the system is functioning properly by operating the filter bypass
6 damper.

7
8 The **[iodine cleanup system (ICS)]** is provided to reduce the concentration of fission products
9 released to the containment atmosphere following a postulated accident. The **[ICS]** would
10 function together with the **[containment spray and cooling systems]** following a DBA to
11 reduce the potential release of radioactive material, principally iodine, from the containment to
12 the environment. The **[ICS]** consists of two 100-percent capacity, separate, independent, and
13 redundant trains. Each train includes a heater, cooling coils, a prefilter, a demister, a HEPA
14 filter, an activated charcoal adsorber section for removal of radioiodines, and a fan. Ductwork,
15 valves and/or dampers, and instrumentation also form part of the system. The system initiates
16 filtered recirculation of the containment atmosphere following receipt of a containment isolation
17 actuation signal. The purpose of SR **[3.6.10.3]** is to verify proper actuation of all train
18 components, including dampers, on an actual or simulated actuation signal. The purpose of
19 SR **[3.6.10.4]** is to ensure that the system is functioning properly by operating the **[ICS]** filter
20 bypass damper.

21
22 The **[emergency core cooling system pump room exhaust air cleanup system (ECCS
23 PREACS)]**, in conjunction with other normally operating systems, also provides environmental
24 control of temperature and humidity in the ECCS pump room area and the lower reaches of the
25 auxiliary building. Ductwork, valves or dampers, and instrumentation also form part of the
26 system, as well as demisters functioning to reduce the relative humidity of the air stream.
27 During emergency operations, the **[ECCS PREACS]** dampers are realigned, and fans are
28 started to begin filtration. Upon receipt of the actuating engineered safety features actuation
29 system (ESFAS) signal(s), normal air discharges from the ECCS pump room isolate, and the
30 stream of ventilation air discharges through the system filter trains. The prefilters or demisters
31 remove any large particles in the air, and any entrained water droplets present, to prevent
32 excessive loading of the HEPA filters and charcoal adsorbers. The purpose of SR **[3.7.13.3]** is
33 to verify proper actuation of all train components, including dampers, on an actual or simulated
34 actuation signal. The purpose of SR **[3.7.13.5]** is to ensure that the system is functioning
35 properly by operating the **[ECCS PREACS]** filter bypass damper.

36
37 The **[fuel building air cleanup system (FBACS)]** filters airborne radioactive particulates from
38 the area of the fuel pool following a fuel handling accident or LOCA. The **[FBACS]**, in
39 conjunction with other normally operating systems, also provides environmental control of
40 temperature and humidity in the fuel pool area. **[FBACS]** consists of two independent and
41 redundant trains. Each train consists of a heater, a prefilter or demister, a HEPA filter, an
42 activated charcoal adsorber section for removal of gaseous activity (principally iodines), and a
43 fan. Ductwork, valves or dampers, and instrumentation also form part of the system, as well as
44 demisters, functioning to reduce the relative humidity of the airstream. The system initiates
45 filtered ventilation of the fuel handling building following receipt of a high-radiation signal. The
46 **[FBACS]** is a standby system, parts of which may also be operated during normal plant
47 operations. Upon receipt of the actuating signal, normal air discharges from the building, the
48 fuel handling building is isolated, and the stream of ventilation air discharges through the system
49 filter trains. The purpose of SR **[3.7.14.3]** is to verify proper actuation of all train components,
50 including dampers, on an actual or simulated actuation signal. The purpose of SR **[3.7.14.5]** is

1 to ensure that the system is functioning properly by operating the **[FBACS]** filter bypass
2 damper.

3
4 The **[penetration room exhaust air cleanup system (PREACS)]** filters air from the
5 penetration area between containment and the auxiliary building. The **[PREACS]** consists of
6 two independent and redundant trains. Each train consists of a heater, a prefilter or demister, a
7 HEPA filter, an activated charcoal adsorber section for removal of gaseous activity (principally
8 iodines), and a fan. Ductwork, valves or dampers, and instrumentation, as well as demisters,
9 functioning to reduce the relative humidity of the air stream, also form part of the system. The
10 **[PREACS]** is a standby system, parts of which may also operate during normal unit operations.
11 Upon receipt of the actuating signal(s), the **[PREACS]** dampers are realigned and fans are
12 started to initiate filtration. The purpose of SR **[3.7.15.3]** is to verify proper actuation of all train
13 components, including dampers, on an actual or simulated actuation signal. The purpose of
14 SR **[3.7.15.5]** is to ensure that the system is functioning properly by operating the **[PREACS]**
15 filter bypass damper.

16
17 The **[essential chilled water (ECW)]** system provides a heat sink for the removal of process
18 and operating heat from selected safety-related air handling systems during a DBA or transient.
19 The **[ECW]** system is a closed-loop system consisting of two independent trains. Each
20 100-percent capacity train includes a heat exchanger, surge tank, pump, chemical addition tank,
21 piping, valves, controls, and instrumentation. An independent 100-percent capacity chilled
22 water refrigeration unit cools each train. The **[ECW]** system is actuated on a **[safety injection**
23 **actuation signal (SIAS)]** and supplies chilled water to the heating, ventilation, and air
24 conditioning units in **engineered safety feature** equipment areas (e.g., the main control room,
25 electrical equipment room, and safety injection pump area). The purpose of SR **[3.7.10.2]** is to
26 verify proper automatic operation of the **[ECW]** system components and that the **[ECW]** pumps
27 will start in the event of any accident or transient that generates an **[SIAS]**. This SR also
28 ensures that each automatic valve in the flow paths actuates to its correct position on an actual
29 or simulated **[SIAS]**.

30
31 *{NOTE: For GE BWR/4 plant designs, use these paragraphs.}*

32
33 The **[main control room environmental control (MCREC)]** provides a protected environment
34 from which occupants can control the unit following an uncontrolled release of radioactivity,
35 hazardous chemicals, or smoke. The purpose of SR **[3.7.4.3]** is to verify that each
36 train/subsystem starts and operates on an actual or simulated actuation signal.

37
38 The emergency core cooling system (ECCS) is designed to limit the release of radioactive
39 materials to the environment following a loss-of-coolant accident (LOCA) and consists of the
40 high pressure coolant injection system, the core spray system, the low pressure coolant
41 injection mode of the residual heat removal (RHR) system, and the automatic depressurization
42 system. The purpose of SR **[3.5.1.10]** is to verify the automatic initiation logic of high pressure
43 coolant injection, core spray, and low pressure coolant injection will cause the systems or
44 subsystems to operate as designed, including actuation of the system throughout its emergency
45 operating sequence, automatic pump startup, and actuation of all automatic valves to their
46 required positions on receipt of an actual or simulated actuation signal.

47
48 The function of the reactor core isolation cooling (RCIC) system is to respond to transient
49 events by providing makeup coolant to the reactor. The purpose of SR **[3.5.3.5]** is to verify the
50 system operates as designed, including actuation of the system throughout its emergency

1 operating sequence; that is, automatic pump startup and actuation of all automatic valves to
2 their required positions on receipt of an actual or simulated actuation signal.

3
4 The **[plant service water (PSW) system]** and ultimate heat sink are designed to provide
5 cooling water for the removal of heat from equipment, such as the diesel generators, RHR pump
6 coolers and heat exchangers, and room coolers for ECCS equipment, required for a safe
7 reactor shutdown following a design-basis accident (DBA) or transient. The **[PSW]** system also
8 provides cooling to unit components, as required, during normal shutdown and reactor isolation
9 modes. During a DBA, the equipment required only for normal operation is isolated and cooling
10 is directed to only safety-related equipment. The purpose of SR **[3.7.2.6]** is to verify the
11 systems will automatically switch to the position to provide cooling water exclusively to
12 safety-related equipment during an accident.

13
14 The function of the standby gas treatment (SGT) system is to ensure that radioactive materials
15 that leak from the primary containment into the secondary containment following a DBA are
16 filtered and adsorbed prior to exhausting to the environment. The purpose of SR **[3.6.4.3.3]** is
17 to verify that each SGT subsystem starts on receipt of an actual or simulated initiation signal.
18 The purpose of SR **[3.6.4.3.4]** is to verify that the filter cooler bypass damper can be opened
19 and the fan started. This ensures that the ventilation mode of SGT system operation is
20 available.

21
22 *{NOTE: For GE BWR/6 plant designs, use these paragraphs.}*

23
24 The **[control room fresh air (CRFA)]** system provides a protected environment from which
25 occupants can control the unit following an uncontrolled release of radioactivity, hazardous
26 chemicals, or smoke. The purpose of SR **[3.7.3.3]** is to verify that each train/subsystem starts
27 and operates on an actual or simulated actuation signal.

28
29 The emergency core cooling system (ECCS) is designed to limit the release of radioactive
30 materials to the environment following a loss-of-coolant accident (LOCA) and consists of the
31 high pressure core spray (HPCS) system, the low pressure core spray (LPCS) system, the low
32 pressure coolant injection (LPCI) mode of the residual heat removal (RHR) system, and the
33 automatic depressurization system. The purpose of SR **[3.5.1.5]** is to verify the automatic
34 initiation logic of HPCS, LPCS, and LPCI will cause the systems or subsystems to operate as
35 designed, including actuation of the system throughout its emergency operating sequence,
36 automatic pump startup, and actuation of all automatic valves to their required positions on
37 receipt of an actual or simulated actuation signal.

38
39 The function of the reactor core isolation cooling (RCIC) system is to respond to transient
40 events by providing makeup coolant to the reactor. The purpose of SR **[3.5.3.5]** is to verify the
41 system operates as designed, including actuation of the system throughout its emergency
42 operating sequence; that is, automatic pump startup and actuation of all automatic valves to
43 their required positions on receipt of an actual or simulated actuation signal.

44
45 The **[standby service water (SSW) system]** and ultimate heat sink are designed to provide
46 cooling water for the removal of heat from equipment, such as the diesel generators, RHR pump
47 coolers and heat exchangers, and room coolers for ECCS equipment, required for a safe
48 reactor shutdown following a design-basis accident (DBA) or transient. The **[SSW]** system also
49 provides cooling to unit components, as required, during normal shutdown and reactor isolation
50 modes. During a DBA, the equipment required only for normal operation is isolated and cooling

1 is directed to only safety-related equipment. The purpose of SR **[3.7.1.6]** is to verify the
2 systems will automatically switch to the position to provide cooling water exclusively to
3 safety-related equipment during an accident.

4
5 The RHR containment spray system is designed to mitigate the effects of primary containment
6 bypass leakage and low-energy line breaks. The purpose of SR **[3.6.1.7.3]** is to verify that each
7 RHR containment spray subsystem automatic valve actuates to its correct position upon receipt
8 of an actual or simulated automatic actuation signal.

9
10 The function of the standby gas treatment (SGT) system is to ensure that radioactive materials
11 that leak from the primary containment into the secondary containment following a DBA are
12 filtered and adsorbed prior to exhausting to the environment. The purpose of SR **[3.6.4.3.3]** is
13 to verify that each SGT subsystem starts on receipt of an actual or simulated initiation signal.
14 The purpose of SR **[3.6.4.3.4]** is to verify that the filter cooler bypass damper can be opened
15 and the fan started. This ensures that the ventilation mode of SGT System operation is
16 available.

17
18 The **[high pressure core spray service water system (HPCS SWS)]** provides cooling water
19 for the removal of heat from components of the **[Division 3]** HPCS system. The purpose of
20 SR **[3.7.2.3]** is to verify that the automatic valves of the HPCS SWS will automatically switch to
21 the safety or emergency position to provide cooling water exclusively to the safety-related
22 equipment on an actual or simulated initiation signal.

23 2.2 Description of Proposed Changes

24
25 The licensee proposed to revise certain SRs by adding exceptions to the SR for automatic
26 valves or dampers that are locked, sealed, or otherwise secured in the actuated position,
27 consistent with the changes described in TSTF-541, Revision 2. The following list denotes the
28 proposed changes to the SRs. The proposed new text containing the exception is shown in
29 *italics*.

30
31 {NOTE: For B&W plant designs, use this list.}

32
33
34 SR **[3.6.7.4]** "Verify each spray additive automatic valve in the flow path actuates
35 to the correct position on an actual or simulated actuation signal, *except for*
36 *valves that are locked, sealed, or otherwise secured in the actuated position.*"

37
38 SR **[3.7.10.3]** "Verify **[each CREVS train actuates] [or the control room**
39 **isolates]** on an actual or simulated actuation signal, *except for dampers and*
40 *valves that are locked, sealed, or otherwise secured in the actuated position.*"

41
42 SR **[3.7.12.3]** "Verify each **[EVS]** train actuates on an actual or simulated
43 actuation signal, *except for dampers and valves that are locked, sealed, or*
44 *otherwise secured in the actuated position.*"

45
46 SR **[3.7.12.5]** "Verify each **[EVS]** filter cooling bypass damper can be opened,
47 *except for dampers that are locked, sealed, or otherwise secured in the open*
48 *position.*"

49

1 SR [3.7.13.3] "Verify each [FSPVS] train actuates on an actual or simulated
2 actuation signal, *except for dampers and valves that are locked, sealed, or*
3 *otherwise secured in the actuated position.*"
4

5 SR [3.7.13.5] "Verify each [FSPVS] filter bypass damper can be opened, *except*
6 *for dampers that are locked, sealed, or otherwise secured in the open position.*"
7

8 {NOTE: For Westinghouse plant designs, use this list.}
9

10 SR [3.6.11.3] "Verify each [ICS] train actuates on an actual or simulated
11 actuation signal, *except for dampers and valves that are locked, sealed, or*
12 *otherwise secured in the actuated position.*"
13

14 SR [3.6.11.4] "Verify each [ICS] filter bypass damper can be opened, *except for*
15 *dampers that are locked, sealed, or otherwise secured in the open position.*"
16

17 SR [3.6.13.3] "Verify each [SBACS] train actuates on an actual or simulated
18 actuation signal, *except for dampers and valves that are locked, sealed, or*
19 *otherwise secured in the actuated position.*"
20

21 SR [3.6.13.4] "Verify each [SBACS] filter bypass damper can be opened, *except*
22 *for dampers that are locked, sealed, or otherwise secured in the open position.*"
23

24 SR [3.7.10.3] "Verify each [CREFS] train actuates on an actual or simulated
25 actuation signal, *except for dampers and valves that are locked, sealed, or*
26 *otherwise secured in the actuated position.*"
27

28 SR [3.7.12.3] "Verify each ECCS [PREACS] train actuates on an actual or
29 simulated actuation signal, *except for dampers and valves that are locked,*
30 *sealed, or otherwise secured in the actuated position.*"
31

32 SR [3.7.12.5] "Verify each ECCS [PREACS] filter bypass damper can be closed,
33 *except for dampers that are locked, sealed, or otherwise secured in the closed*
34 *position.*"
35

36 SR [3.7.13.3] "Verify each [FBACS] train actuates on an actual or simulated
37 actuation signal, *except for dampers and valves that are locked, sealed, or*
38 *otherwise secured in the actuated position.*"
39

40 SR [3.7.13.5] "Verify each [FBACS] filter bypass damper can be closed, *except*
41 *for dampers that are locked, sealed, or otherwise secured in the closed position.*"
42

43 SR [3.7.14.3] "Verify each [PREACS] train actuates on an actual or simulated
44 actuation signal, *except for dampers and valves that are locked, sealed, or*
45 *otherwise secured in the actuated position.*"
46

47 SR [3.7.14.5] "Verify each [PREACS] filter bypass damper can be closed, *except*
48 *for dampers that are locked, sealed, or otherwise secured in the closed position.*"
49

1 {NOTE: For CE plant designs, use this list.}

2
3 SR [3.6.8.3] "Verify each [SBEACS] train actuates on an actual or simulated
4 actuation signal, *except for dampers and valves that are locked, sealed, or*
5 *otherwise secured in the actuated position.*"

6
7 SR [3.6.8.4] "Verify each [SBEACS] filter bypass damper can be opened, *except*
8 *for dampers that are locked, sealed, or otherwise secured in the open position.*"

9
10 SR [3.6.10.3] "Verify each [ICS] train actuates on an actual or simulated
11 actuation signal, *except for dampers and valves that are locked, sealed, or*
12 *otherwise secured in the actuated position.*"

13
14 SR [3.6.10.4] "Verify each [ICS] filter bypass damper can be opened, *except for*
15 *dampers that are locked, sealed, or otherwise secured in the open position.*"

16
17 SR [3.7.10.2] "Verify the proper actuation of each [ECW] System component on
18 an actual or simulated actuation signal, *except for valves that are locked, sealed,*
19 *or otherwise secured in the actuated position.*"

20
21 SR [3.7.11.3] "Verify each [CREACS] train actuates on an actual or simulated
22 actuation signal, *except for dampers and valves that are locked, sealed, or*
23 *otherwise secured in the actuated position.*"

24
25 SR [3.7.13.3] "Verify each ECCS [PREACS] train actuates on an actual or
26 simulated actuation signal, *except for dampers and valves that are locked,*
27 *sealed, or otherwise secured in the actuated position.*"

28
29 SR [3.7.13.5] "Verify each ECCS [PREACS] filter bypass damper can be
30 opened, *except for dampers that are locked, sealed, or otherwise secured in the*
31 *open position.*"

32
33 SR [3.7.14.3] "Verify each [FBACS] train actuates on an actual or simulated
34 actuation signal, *except for dampers and valves that are locked, sealed, or*
35 *otherwise secured in the actuated position.*"

36
37 SR [3.7.14.5] "Verify each [FBACS] filter bypass damper can be opened, *except*
38 *for dampers that are locked, sealed, or otherwise secured in the open position.*"

39
40 SR [3.7.15.3] "Verify each [PREACS] train actuates on an actual or simulated
41 actuation signal, *except for dampers and valves that are locked, sealed, or*
42 *otherwise secured in the actuated position.*"

43
44 SR [3.7.15.5] "Verify each [PREACS] filter bypass damper can be opened,
45 *except for dampers that are locked, sealed, or otherwise secured in the open*
46 *position.*"

47

1 {NOTE: For GE BWR/4 plant designs, use this list.}

2
3 SR [3.5.1.10] "Verify each ECCS injection/spray subsystem actuates on an
4 actual or simulated automatic initiation signal, *except for valves that are locked,*
5 *sealed, or otherwise secured in the actuated position.*"

6
7 SR [3.5.3.5] "Verify the RCIC System actuates on an actual or simulated
8 automatic initiation signal, *except for valves that are locked, sealed, or otherwise*
9 *secured in the actuated position.*"

10
11 SR [3.6.4.3.3] "Verify each SGT subsystem actuates on an actual or simulated
12 initiation signal, *except for dampers that are locked, sealed, or otherwise secured*
13 *in the actuated position.*"

14
15 SR [3.6.4.3.4] "Verify each SGT filter cooler bypass damper can be opened and
16 the fan started, *except for dampers that are locked, sealed, or otherwise secured*
17 *in the open position.*"

18
19 SR [3.7.2.6] "Verify each [PSW] subsystem actuates on an actual or simulated
20 initiation signal, *except for valves that are locked, sealed, or otherwise secured in*
21 *the actuated position.*"

22
23 SR [3.7.4.3] "Verify each [MCREC] subsystem actuates on an actual or
24 simulated initiation signal, *except for dampers and valves that are locked, sealed,*
25 *or otherwise secured in the actuated position.*"

26
27 {NOTE: For GE BWR/6 plant designs, use this list.}

28
29 SR [3.5.1.5] "Verify each ECCS injection/spray subsystem actuates on an actual
30 or simulated automatic initiation signal, *except for valves that are locked, sealed,*
31 *or otherwise secured in the actuated position.*"

32
33 SR [3.5.3.5] "Verify the RCIC System actuates on an actual or simulated
34 automatic initiation signal, *except for valves that are locked, sealed, or otherwise*
35 *secured in the actuated position.*"

36
37 SR [3.6.1.7.3] "Verify each RHR containment spray subsystem automatic valve
38 in the flow path actuates to its correct position on an actual or simulated
39 automatic initiation signal, *except for valves that are locked, sealed, or otherwise*
40 *secured in the actuated position.*"

41
42 SR [3.6.4.3.3] "Verify each SGT subsystem actuates on an actual or simulated
43 initiation signal, *except for dampers that are locked, sealed, or otherwise secured*
44 *in the actuated position.*"

45
46 SR [3.6.4.3.4] "Verify each SGT filter cooler bypass damper can be opened and
47 the fan started, *except for dampers that are locked, sealed, or otherwise secured*
48 *in the open position.*"

49

1 SR [3.7.1.6] "Verify each [SSW] subsystem actuates on an actual or simulated
2 initiation signal, *except for valves that are locked, sealed, or otherwise secured in*
3 *the actuated position.*"

4
5 SR [3.7.2.3] "Verify the [HPCS SWS] actuates on an actual or simulated initiation
6 signal, *except for valves that are locked, sealed, or otherwise secured in the*
7 *actuated position.*"

8
9 SR [3.7.3.3] "Verify each [CRFA] subsystem actuates on an actual or simulated
10 initiation signal, *except for dampers and valves that are locked, sealed, or*
11 *otherwise secured in the actuated position.*"

12
13 The licensee also provided changes to the TS Bases for information only in [Enclosure 3].
14 Where the reason for each particular SR is described, the following text would be added:

15
16 The SR excludes automatic dampers and valves that are locked, sealed, or
17 otherwise secured in the actuated position. The SR does not apply to dampers
18 or valves that are locked, sealed, or otherwise secured in the actuated position
19 since the affected dampers or valves were verified to be in the actuated position
20 prior to being locked, sealed, or otherwise secured. Placing an automatic valve
21 or damper in a locked, sealed, or otherwise secured position requires an
22 assessment of the operability of the system or any supported systems, including
23 whether it is necessary for the valve or damper to be repositioned to the
24 non-actuated position to support the accident analysis. Restoration of an
25 automatic valve or damper to the non-actuated position requires verification that
26 the SR has been met within its required Frequency.

27
28 **[The licensee also proposed changes to the TS Bases that would correct errors in the**
29 **descriptions of the reasons for SR [[3.7.12.5], SR [3.7.13.5], SR [3.7.14.5], and**
30 **SR 3.7.15.5]]. The descriptions erroneously state that operability is verified if the damper**
31 **can be closed. The description should state operability is verified if the damper can be**
32 **opened.]**

33 34 2.2.1 Variations from TSTF-541, Revision 2

35
36 *{NOTE: Technical reviewers and/or the project manager are to assess the adequacy of any*
37 *variations from or exceptions to the approved traveler and document their acceptability. Use the*
38 *paragraph below if applicable.}*

39
40 The licensee proposed the following variations from the TS changes described in TSTF-541,
41 Revision 2, or the applicable parts of the NRC staff's SE of TSTF-541, Revision 2. The licensee
42 stated that these variations do not affect the applicability of TSTF-541, Revision 2, or the NRC
43 staff's SE to the proposed LAR. **[Describe variations.]**

44 45 2.3 Applicable Regulatory Requirements and Guidance

46
47 Title 10 of the *Code of Federal Regulations* (10 CFR) Section 50.90, "Application for
48 amendment of license, construction permit, or early site permit," requires that whenever a
49 licensee desires to amend the license, application for an amendment must be filed with the

1 Commission fully describing the changes desired, and following as far as applicable, the form
2 prescribed for original applications.

3
4 Under 10 CFR 50.92(a), determinations on whether to grant an applied-for license amendment
5 are guided by the considerations that govern the issuance of initial licenses or construction
6 permits to the extent applicable and appropriate. Both the common standards for licenses and
7 construction permits in 10 CFR 50.40(a), and those specifically for issuance of operating
8 licenses in 10 CFR 50.57(a)(3), provide that there must be “reasonable assurance” that the
9 activities at issue will not endanger the health and safety of the public.

10
11 The regulation under 10 CFR 50.36, “Technical specifications,” establishes the regulatory
12 requirements related to the content of TSs. Section 50.36(a)(1) requires an application for an
13 operating license to include proposed TSs. A summary statement of the bases or reasons for
14 such specifications, other than those covering administrative controls, must also be included in
15 the application, but shall not become part of the TSs.

16
17 The regulation under 10 CFR 50.36(b) requires that:

18
19 Each license authorizing operation of a ...utilization facility ...will include
20 technical specifications. The technical specifications will be derived from the
21 analyses and evaluation included in the safety analysis report, and amendments
22 thereto, submitted pursuant to [10 CFR] 50.34 [“Contents of applications;
23 technical information”]. The Commission may include such additional technical
24 specifications as the Commission finds appropriate.

25
26 The categories of items required to be in the TS are listed in 10 CFR 50.36(c). In accordance
27 with 10 CFR 50.36(c)(2), limiting conditions for operation (LCOs) are the lowest functional
28 capability or performance levels of equipment required for safe operation of the facility. When
29 LCOs are not met, the licensee must shut down the reactor or follow any remedial action
30 permitted by the TSs until the condition can be met.

31
32 SRs are defined in 10 CFR 50.36(c)(3) as “requirements relating to test, calibration, or
33 inspection to assure that the necessary quality of systems and components is maintained, that
34 facility operation will be within safety limits, and that the limiting conditions for operation will be
35 met.”

36
37 The regulation under 10 CFR 50.36(c)(5) requires TS to include administrative controls, which
38 “are the provisions relating to organization and management, procedures, recordkeeping,
39 review and audit, and reporting necessary to assure operation of the facility in a safe manner.”

40
41 Appendix B, “Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing
42 Plants,” to 10 CFR Part 50, “Domestic Licensing of Production and Utilization Facilities,”
43 establishes quality assurance requirements for the operation of nuclear power plant
44 safety-related structures, systems, and components (SSCs).

45
46 NRC Regulatory Guide (RG) 1.33, Revision 2, “Quality Assurance Program Requirements
47 (Operation),” with Appendix A, “Typical Procedures for Pressurized Water Reactors and Boiling
48 Water Reactors,” dated February 1978 (ADAMS Accession No. ML003739995), describes a
49 method acceptable to the NRC staff for complying with the Commission’s regulations with
50 regard to overall quality assurance program requirements for the operation phase of nuclear

1 power plants. Section 8.b of RG 1.33, Appendix A, states that “implementing procedures are
2 required for each surveillance test, inspection, or calibration listed in the technical
3 specifications.” Section 9.e of RG 1.33, Appendix A, states that “General procedures for the
4 control of maintenance, repair, replacement, and modification work should be prepared before
5 reactor operation is begun.” Section 9.e.1 states that the procedures should include information
6 such as methods for obtaining permission and clearance for operation personnel to work and for
7 logging such work.

8
9 TS **[5.4.1.a]** in the Administrative Controls section of the **[PLANT]** TS requires that written
10 procedures shall be established, implemented, and maintained covering the applicable
11 procedures recommended in RG 1.33, Revision 2, Appendix A, February 1978.

12
13 TS **[5.5.11/5.5.8]**, “Ventilation Filter Testing Program” in the Administrative Controls section of
14 the **[PLANT]** TS contains requirements to identify any filter degradation and ensures the ability
15 of the filters to perform in a manner consistent with the licensing basis for the facility.

16
17 The NRC staff’s guidance for the review of TS is in Chapter 16.0, Revision 3, “Technical
18 Specifications,” dated March 2010 (ADAMS Accession No. ML100351425) of NUREG-0800,
19 Revision 3, “Standard Review Plan for the Review of Safety Analysis Reports for Nuclear Power
20 Plants: LWR [Light-Water Reactor] Edition” (SRP). As described therein, as part of the
21 regulatory standardization effort, the NRC staff has prepared Standard Technical Specifications
22 (STS) for each of the LWR nuclear designs. Accordingly, the NRC staff’s review includes
23 consideration of whether the proposed changes are consistent with the applicable reference
24 STS (i.e., the current STS), as modified by NRC-approved travelers. In addition, the guidance
25 states that comparing the change to previous STS can help clarify the TS intent.

26
27 Section 10 CFR 50.65, “Requirements for monitoring the effectiveness of maintenance at
28 nuclear power plants,” requires licensees to monitor the performance or condition of SSCs,
29 against licensee-established goals, in a manner sufficient to provide reasonable assurance that
30 these SSCs, as defined in paragraph (b) of this section, are capable of fulfilling their intended
31 functions.

32
33 The regulation under 10 CFR 50.65(a)(4) states:

34
35 Before performing maintenance activities (including but not limited to
36 surveillance, post-maintenance testing, and corrective and preventive
37 maintenance), the licensee shall assess and manage the increase in risk that
38 may result from the proposed maintenance activities. The scope of the
39 assessment may be limited to structures, systems, and components that a
40 risk-informed evaluation process has shown to be significant to public health and
41 safety.

42
43 The regulation under 10 CFR 50.65(b) states:

44
45 The scope of the monitoring program specified in paragraph (a)(1) of this section
46 shall include safety related and nonsafety related structures, systems, and
47 components, as follows:

48
49 (1) Safety-related structures, systems and components that are relied upon to
50 remain functional during and following design basis events to ensure the integrity

1 of the reactor coolant pressure boundary, the capability to shut down the reactor
2 and maintain it in a safe shutdown condition, or the capability to prevent or
3 mitigate the consequences of accidents that could result in potential offsite
4 exposure comparable to the guidelines in [10 CFR] 50.34(a)(1),
5 [10 CFR] 50.67(b)(2), or [10 CFR] 100.11 of this chapter, as applicable.
6

7 (2) Nonsafety related structures, systems, or components:

8
9 (i) That are relied upon to mitigate accidents or transients or are used in plant
10 emergency operating procedures (EOPs); or

11
12 (ii) Whose failure could prevent safety-related structures, systems, and
13 components from fulfilling their safety-related function; or

14
15 (iii) Whose failure could cause a reactor scram or actuation of a safety-related
16 system.
17

18 The most recent revision of NRC staff guidance for the format and content of the [PLANT] TS is
19 in

20 *{NOTE: Choose applicable STS}*

21 **[U.S. Nuclear Regulatory Commission, “Standard Technical Specifications, Babcock and
22 Wilcox Plants,” NUREG-1430, Volume 1, “Specifications,” and Volume 2, “Bases,”
23 Revision 4.0, dated April 2012 (ADAMS Accession Nos. ML12100A177 and ML12100A178,
24 respectively).**

25
26 **U.S. Nuclear Regulatory Commission, “Standard Technical Specifications, Westinghouse
27 Plants,” NUREG-1431, Volume 1, “Specifications,” and Volume 2, “Bases,” Revision 4.0,
28 dated April 2012 (ADAMS Accession Nos. ML12100A222 and ML12100A228, respectively).**

29
30 **U.S. Nuclear Regulatory Commission, “Standard Technical Specifications, Combustion
31 Engineering Plants,” NUREG-1432, Volume 1, “Specifications,” and Volume 2, “Bases,”
32 Revision 4.0, dated April 2012 (ADAMS Accession Nos. ML12102A165 and ML12102A169,
33 respectively).**

34
35 **U.S. Nuclear Regulatory Commission, “Standard Technical Specifications, General
36 Electric BWR/4 Plants” NUREG-1433, Volume 1, “Specifications,” and Volume 2, “Bases,”
37 Revision 4.0, dated April 2012 (ADAMS Accession Nos. ML12104A192 and ML12104A193,
38 respectively).**

39
40 **U.S. Nuclear Regulatory Commission, “Standard Technical Specifications, General
41 Electric BWR/6 Plants” NUREG-1434, Volume 1, “Specifications,” and Volume 2, “Bases,”
42 Revision 4.0, dated April 2012 (ADAMS Accession Nos. ML12104A195 and ML12104A196,
43 respectively).]**

44 45 3.0 TECHNICAL EVALUATION

46
47 The proposed amendment is based on the NRC-approved TSTF-541, Revision 2. The NRC
48 staff's evaluation of the proposed amendment relies upon the NRC staff's previous approval of
49 TSTF-541, Revision 2. The regulatory framework the NRC staff used to determine the
50 acceptability of the proposed changes consist of the requirements and guidance listed in

1 Section 2.3 of this SE. The NRC staff reviewed the proposed TS changes to determine whether
2 they meet the standards in 10 CFR 50.36. The NRC staff also used the SRP to determine
3 whether the proposed TS changes would clarify the intent of the TS.
4

5 The NRC staff determined that when the exception is used the radiological consequences for
6 the accidents previously evaluated are not changed since the system is still capable of
7 performing the specified safety function assumed in the accident analyses and the associated
8 TS actions are followed if the system cannot perform its specified safety function. Additionally,
9 the licensee is required to perform filter testing in accordance with the Ventilation Filter Testing
10 Program as stated in the accompanying TSs SRs, as these SRs are not affected by this
11 proposed change. The Ventilation Filter Testing Program in TS **[5.5.11/5.5.8]** would identify any
12 filter degradation and it ensures the ability of the filters to perform in a manner consistent with
13 the licensing basis for the facility.
14

15 In the **[PLANT]** TS, SRs generally follow a format in which text states that certain SSCs or
16 systems (subsystems, trains, etc.) of components must be verified to be able to actuate or
17 function. Each verification must be performed at a given frequency. The rules governing SRs
18 are explicitly stated in the TS in SR 3.0.1 through SR 3.0.4.
19

20 For SRs lacking an explicit exception, the sentence "Failure to meet a Surveillance, whether
21 such failure is experienced during the performance of the Surveillance or between
22 performances of the Surveillance, shall be failure to meet the LCO," in SR 3.0.1 requires that
23 when an SR is not met, the LCO is not met. Per the **[PLANT]** TS usage rules, when an LCO is
24 not met, Required Actions must be met within specified Completion Times. Traveler TSTF-541,
25 Revision 2, was approved to provide an acceptable method in the STS to avoid unnecessary
26 entry into Conditions and Required Actions.
27

28 While SR 3.0.1 through SR 3.0.4 are explicit with respect to when SRs are to be met and
29 performed, the text of the individual SRs does not contain more detail than a system name or
30 component name. Details of how the licensee will implement SRs are contained in
31 licensee-controlled procedures.
32

33 The procedures for how the licensee will implement SRs are discussed in Section 8.b of
34 Appendix A to RG 1.33, Revision 2, which is a requirement of TS **[5.4]**. The procedures for
35 general maintenance and equipment work clearances and logging discussed in Section 9.e of
36 Appendix A to RG 1.33, Revision 2, are also requirements of TS **[5.4]**. Since SR procedures
37 along with maintenance, equipment work clearance, and logging procedures are
38 licensee-controlled documents, changes to the procedure details must be done in accordance
39 with 10 CFR 50.59. If the change would require NRC approval, 10 CFR 50.59 would require the
40 licensee to submit an amendment request to the NRC per 10 CFR 50.90. SSCs with SRs are
41 scoped into the requirements of 10 CFR 50.65 and 10 CFR 50.65(a)(4) contains the
42 requirement to assess and manage the risk of maintenance. Therefore, the licensee must
43 further evaluate the effect of any maintenance on SSCs for which the exception is employed.
44 Given the requirements of 10 CFR 50.59 and 10 CFR 50.65, the NRC staff has reasonable
45 assurance that the licensee will assess the impact of using the exception in the SR for the SSCs
46 and systems involved. If the licensee fails to make the proper assessments, enforcement
47 actions related to the stated regulations could be taken.
48

49 Since 10 CFR 50.59 and 10 CFR 50.65 require a licensee to evaluate and document a change,
50 the exception is acceptable because there is reasonable assurance that placing the component

1 in a given position will not inadvertently impact the operability of required SSCs. The NRC staff
2 determined that there is reasonable assurance that the change will not have inadvertent effects
3 on system OPERABILITY or SSC quality.

4
5 The licensee's LAR contains the following statements:

6
7 While the proposed exceptions permit automatic valves and dampers that are
8 locked, sealed, or otherwise secured in the actuated position to be excluded from
9 the SR in order to consider the SR met, the proposed changes will not permit a
10 system that is made inoperable by locking, sealing, or otherwise securing an
11 automatic valve or damper in the actuated position to be considered operable.
12 As stated in the **[SR 3.0.1]** Bases, "Nothing in this Specification, however, is to
13 be construed as implying that systems or components are OPERABLE when: a.
14 The systems or components are known to be inoperable, although still meeting
15 the SRs."

16
17 **[LICENSEE]** acknowledges that under the proposed change, the affected valves
18 and dampers may be excluded from the SR when locked, sealed or otherwise
19 secured in the actuated position. However, if the safety analysis assumes
20 movement from the actuated position following an event, or the system is
21 rendered inoperable by locking, sealing, or otherwise securing the valve or
22 damper in the actuated position, then the system cannot perform its specified
23 safety function and is inoperable regardless of whether the SR is met.

24
25 **[LICENSEE]** acknowledges for components for which the SR allowance can be
26 utilized, the SR must be verified to have been met within its required Frequency
27 after removing the valve or damper from the locked, sealed or otherwise secured
28 status. If the SR exception is utilized to not test the actuation of a valve or
29 damper and the specified Frequency of the SR is exceeded without testing the
30 component, the SR must be performed on the component when it is returned to
31 service in order to meet the SR.

32
33 Given the statements provided on the docket to adopt TSTF-541, Revision 2, the NRC staff
34 determined that there is reasonable assurance that the change will not inadvertently affect the
35 clarity of **[PLANT'S]** licensing basis.

36
37 The NRC staff determined that the **[PLANT]** TS changes, as amended by TSTF-541,
38 Revision 2, will continue to provide an acceptable way to meet 10 CFR 50.36(c)(3) because the
39 revised SRs will continue to provide assurance that the necessary quality of systems and
40 components is maintained and that the LCOs will be met.

41 42 **[3.1 Variations]**

43
44 *{Note: If the licensee identifies variations in Section 2.2 of the LAR, other than differences in the*
45 *numbering, titles, and nomenclature in the TS, they should be evaluated in this section. More*
46 *extensive differences may exceed the scope of what is allowable in CLIP applications. If the*
47 *variations are related to different numbering, titles, or nomenclature, use the paragraph below.}*
48

49 As discussed in Section 2.2.1 of this SE, the licensee proposed variations from TSTF-541,
50 Revision 2, related to the use of different numbering, titles, and nomenclature. For example,

1 **[insert example here]**. The NRC staff reviewed these variations and finds them acceptable as
2 the differences do not affect the applicability of traveler TSTF-541 to the **[PLANT]** TSs.

3
4 4.0 STATE CONSULTATION

5
6 *{This section is to be prepared by the plant project manager.}*

7
8 In accordance with the Commission's regulations, the **[Name of State]** State official was notified
9 of the proposed issuance of the amendment(s) on **[date]**. The State official had **[no]**
10 comments. **[If comments were provided, they should be addressed here.]**

11
12 5.0 ENVIRONMENTAL CONSIDERATION

13
14 *{This section is to be prepared by the plant project manager in accordance with current*
15 *procedures.}*

16
17 6.0 CONCLUSION

18
19 *{This section is to be prepared by the plant project manager.}*

20
21 The Commission has concluded, based on the considerations discussed above, that: (1) there
22 is reasonable assurance that the health and safety of the public will not be endangered by
23 operation in the proposed manner, (2) there is reasonable assurance that such activities will be
24 conducted in compliance with the Commission's regulations, and (3) the issuance of the
25 amendment(s) will not be inimical to the common defense and security or to the health and
26 safety of the public.

27
28 7.0 REFERENCES

29
30 *{Optional section to be prepared by the plant project manager and primary reviewers. If*
31 *document is publicly available, the ADAMS Accession No. should be listed.}*

32
33 *{NOTE: These are the principal contributors for the model SE of the traveler. Replace these*
34 *names with those who prepared the plant-specific SE. Since this is a CLIIP traveler, typically*
35 *only the STSB reviewer, Matthew Hamm, would be a contributor to the plant-specific SE.}*

36
37 Principal Contributors: Matthew Hamm, NRR/DSS/STSB
38 Kristy Bucholtz, NRR/DSS
39 Robert Beaton, NRR/DSS

40
41 Date: