

JAFP-21-0022
April 5, 2021

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555-0001

James A. FitzPatrick Nuclear Power Plant
Renewed Facility Operating License No. DPR-59
NRC Docket No. 50-333

Subject: 2021 Updated Final Safety Analysis Report, Technical
Specification Bases and Technical Requirements Manual Changes
Transmittal

Dear Sir or Madam:

The changes to the Final Safety Analysis Report (FSAR) for the James A. FitzPatrick Nuclear Power Plant (JAF) are being submitted as required by 10 CFR 50.71(e).

This submittal also includes the changes made to the JAF Technical Specifications Bases and the Technical Requirements Manual, which are controlled under 10 CFR 50.59, and submitted to the NRC biennially with the changes to the FSAR.

The changes and their bases are summarized in Attachment 1, 2, and 3. The changed pages are included in Enclosures 1, 2, and 3 respectively.

There are no new regulatory commitments contained in this letter. If you have any questions, please contact Mr. Richard M. Sullivan, Regulatory Assurance Manager, at 315-349-6562.

As required by 10 CFR 50.71(e)(2)(i), I certify that the information accurately presents changes made since the previous submittal, necessary to reflect information and analyses submitted to the Commission or prepared pursuant to Commission requirement.

Very truly yours,



Approved Electronically by
Pat D. Navin
Site Vice President

PDN/RMS/mh

Attachments 1: Table of Final Safety Analysis Report (FSAR) 2021 Changes
 2: Table of Technical Specification (TS) Bases 2021 Changes
 3: Table of Technical Requirements Manual (TRM) 2021 Changes

Enclosures 1: Final Safety Analysis Report (FSAR) 2021
 2: Technical Specification (TS) Bases Revision 47
 3: Technical Requirements Manual (TRM) Revision 95

cc: (w/out enclosures)
NRC Region 1 Administrator
NRC Resident Inspector
NRC Project Manager
NYPSC
NYSERDA

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ATTACHMENT 1

**Table of Final Safety Analysis Report (FSAR) 2021 Changes
(2 Pages)**

Table of Final Safety Analysis Report (FSAR) 2021 Changes

FSAR Section / Table / Figure	Description of Change	Justification for Change
F8.3-4	Typo correction	Non-regulatory change
7.11	Main Turbine Backup Overspeed Trip Device Testing Interval	Engineering Change EC 622156
7.16, F7.16-2	Data Diode and DAE Implementation. New level 2.5 and new configuration for the DAE DD into the EPIC system diagram.	Engineering Change EC 623074
12.2, 12.4, 12.7	Tornado Missile Project and Tornado Missile Risk Evaluator (TMRE)	Engineering Change EC 627886 10 CFR 50.59 Evaluation JAF-SE-19-001
5.2	Drywell Entry Power Restrictions within the ALARA Plan	10 CFR 50.59 Screen JAF-SCN-20-002
8.3, 8.4, F8.7-1 sh 3 of 5	Open Phase Detection on Offsite Feed to Reserve Station Service Transformers (RSST)	Engineering Change EC 624295, EC 624296
13.3, 13.4	Update ANSI/ANS-3.1-1978 to ANSI/ANS 3.1-2014	10 CFR 50.54(a)
4.4, 4.7, 4.12, T5.2-1, 6.5, 6.7, 8.11, 14.5, 14.6, F14.6-35, F14.6-36, F14.6-37, 14.9	Revised Decay Heat Evaluation	Engineering Change EC 626155 10 CFR 50.59 Evaluation JAF-SE-20-003
3.4, 3.10	Marathon-5S (Ultra MD) Control Blades	Engineering Change EC 631189
F8.2-1, F8.5-1	Replace Normal Station Service Transformer (71T-4)	Engineering Change EC 625087
4.4, 5.2, F5.2-1	Tech Spec Torus to Drywell differential pressure change	Technical Specification Amendments 332
1.6, 9.18, F9.18-1, 10.4	Retirement of Reboiler	Engineering Change EC 622832, EC 629012 10 CFR 50.59 Evaluation JAF-SE-18-003
T3.2-1, F3.4-6, 3.7, 7.5, T14.4-3, 14.5, 14.9	FitzPatrick Unit 1 Cycle 25 Core Reload Design	Engineering Change EC 629587
7.11, F7.11-1, 10.2	Main Turbine Thrust Bearing Wear Detector (TBWD) Trip Removal	Engineering Change EC 632017 10 CFR 50.59 Evaluation JAF-SE-20-004

Table of Final Safety Analysis Report (FSAR) 2021 Changes

FSAR Section / Table / Figure	Description of Change	Justification for Change
F10.8-3	“A” Condensate Pump 33P-8A replacement. Cut and cap seal water supply pipe (Line Number 33-1/2”-CPD-151-11). New mechanical seal design.	Engineering Change EC 629013
T7.19-1 Sh 12 of 24, 8.6, 9.15	Plant Process Computer Infrastructure and Control Room Upgrade	Engineering Change EC 622787
7.10, 9.20, 10.8, F7.10-1, F7.10-2	Feedwater level control change to digital controller	Engineering Change EC 625089 10 CFR 50.59 Evaluation JAF-SE-20-002
1.6, 3.9, 4.6, 4.8, 4.11, 5.3, 7.1, 9.19, 14.8, T14.8-4, T14.8-4a, T14.8-5, T14.8-6, T14.8-7, T14.8-8, T14.8-8a, T14.8-9, T14.8-9a, T14.8-10, T14.8-10a, T14.8-11, T14.8-11a, 14.9	Retire Main Steam Leakage Collection System (MSLCS) and Alternate Source Term (AST)	Engineering Change EC 625093, EC 626767 Technical Specification Amendments 338
7.11, 10.2	Temporary Configuration Change for Lifting Leads to Fast Acting Solenoid Valve (FASV) to Turbine Intercept Valves	Engineering Change EC 632655 10 CFR 50.59 Evaluation JAF-SE-20-005
16.10	Correction to typo in Buried Piping and Tanks Inspection Program	Non-regulatory change
9.4	Spectacle flange between RHR and FPC crosstie piping.	Engineering Change EC 633087
16.10	Update to Selective leaching Aging Management Program	50.59 Applicability
T7.3-1 sh 7 of 17, T7.3-1 sh 13 of 17	Change Normal Position of 16-1AOV-101A/B & 16-1AOV-102A/B to Closed	Engineering Change EC 633233
13.8	Security Plan rev 22 update	10 CFR 50.54(p)

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ATTACHMENT 2

**Table of Technical Specification (TS) Bases 2021 Changes
(1 Page)**

Table of Technical Specification (TS) Bases 2021 Changes

TS Bases Section	Description of Change	Justification for Change
3.4.3	Installation of all 3-stage Safety Relief Valves (SRV)	Engineering Change EC 620602
3.1.2	Reactivity Anomalies	Technical Specification Amendment 325
3.6.4.3	Standby Gas Treatment (SBGT) Heater Surveillance run 10 hr to 8 hr	Technical Specification Amendment 326
3.8.1, 3.8.7	Second Completion Time	Technical Specification Amendment 329
3.7.2	Removal for Bar Rack Heater requirement	Technical Specification Amendment 331
3.6.2.4, 3.6.3.1	TSTF-568 DW DP and O2 concentration	Technical Specification Amendment 332
3.0	TSTF-372 Addition of LCO 3.0.8, Inoperability of Snubbers	Technical Specification Amendment 335
3.0	TSTF-427 Addition of LCO 3.0.9 Barrier Degradation on Supported System Operability	Technical Specification Amendment 337
2.1, 3.2.2	TSTF-564 MCPR cycle-independent. Eliminate separate Recirc loop single/two operation.	Technical Specification Amendment 327
3.1.7, 3.3.6.1, 3.6.1.3, 3.6.4.1, 3.6.1.8	Alternate Source Term per RG 1.183 Section 1.2.1. Increase allowable MSIV leakage. Remove MSLC. SLC and instrumentation. SC DP note flexibility	Technical Specification Amendment 338
3.6.1.4, 3.6.1.7, 3.6.2.2, 3.6.2.4	Remove drywell to torus DP. Delete LCO 3.6.2.4 for DP. Suppression pool water level 14 ft to 14.25 ft and instrumentation allowed value 14.5 ft to 14.75 ft.	Technical Specification Amendment 339
3.4.5	Change to Clarify grab sample requirements when CAMs are out of service.	10 CFR 50.59 Screen

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ATTACHMENT 3

**Table of Technical Requirements Manual (TRM) 2021 Changes
(2 Pages)**

Table of Technical Requirements Manual (TRM) 2021 Changes

TRM Page / Table	Description of Change	Justification for Change
Appendix I	Surveillance Frequency Control Program (SFCP) changes	Change Request Numbers: JF-17-006 JF-17-011 JF-18-014 JF-17-012 JF-19-004 JF-19-006 JF-19-003 JF-17-008 JF-20-003 JF-20-004 JF-20-002 JF-18-015 JF-18-002 JF-19-011 JF-20-005 JF-17-010 JF-21-001 JF-21-002
3.7.H-3	Relocate TRS 3.7.H.9 to Preventative Maintenance Program.	Fire Protection Change
3.7.C-1, 3.7.C-2, B3.7.C-1, B3.7.C-2	Reduced Frequency of Flow and Thermal Performance Testing. TRS 3.7.C.1 92 days to 6 months. TRS 3.7.C.2 12 months to 24 months.	10 CFR 50.59 Screen JAF-SCN-19-187
I-13	Adopts TSTF-522 to change SR 3.6.4.3.1 from operating Standby Gas Treatment subsystem for 10 hours to 15 minutes.	Technical Specification Amendment 326
3.7.H	TRS 3.7.H.12, Fire Pump 71P-1 frequency from 18 months to two years.	Engineering Change EC 628080
I-14, BI-18	Removes the requirement for Bar Rack heaters in TS 3.7.2.	Technical Specification Amendment 331
3.7.G-2, 3.7.G-3, B 3.7.G-1	Update snubber program document to SEP-SNB-JAF.	Editorial
3.7.O-12, T3.7.O-1 (page 10 of 10)	Remove Batter Light 76ELM-WH-272-1	Engineering Change EC 622150
3.0-1, 3.0-2, 3.0-3, B 3.0-1, B 3.0-2, B 3.0-3, B 3.0-4, B 3.0-5, B 3.0-6, B 3.0-7, B 3.0-8, B 3.0-10, 3.7.I-1, B 3.7.I-1, 3.7.K-1, B 3.7.K-1, B 3.7.J-1, B 3.7.J-1, 3.7.M-1, 3.7.M-2, B 3.7.M-1, B 3.7.M-2, 3.7.N-1,	Fire Protection incorporate various recommendations. Including new 3.0.F, Alternate Compensatory Measures.	Fire Protection Change

Table of Technical Requirements Manual (TRM) 2021 Changes

TRM Page / Table	Description of Change	Justification for Change
3.7.N-2, B 3.7.N-1		
I-13, BI-17	Torus and Drywell differential pressure	Technical Specification Amendment TSA-339
3.3.A-2; B 3.3.A-1	TRS 3.3.A.3 RHR SDC channel functional test Frequency change 92 to 184 days	Engineering Change EC 632055
3.3.H-1, 3.3.H-2, 3.3.H-3, B3.3.H-1	Change frequency from 24 months to 24 months staggered for TRS 3.3.H.4 function 1 and 2	Engineering Change EC 632021
3.7.G-1, 3.7.G-2, 3.7.G-3, B 3.7.G-1	Rephrases Snubber TRM actions to address and comply with new TS LCO 3.0.8 from TSTF-372.	Technical Specification Amendment 335
3.7.J-1, B 3.7.M-2	CO ₂ functional clarification with flow path and barriers intact.	Fire Protection Change
I-13, BI-16	Eliminates Main Steam Leakage Collection System (MSLCS)	Technical Specification Amendment 338
A-20, A-38	Change Normal Position of 16-1AOV-101A/16-1AOV-101B and 16-1AOV-102A/16-1AOV-102B to Closed	10 CFR 50.59 Screen JAF-SCN-21-004

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ENCLOSURE 1

Final Safety Analysis Report (FSAR) 2021

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ENCLOSURE 2

Technical Specification (TS) Bases Révision 47

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ENCLOSURE 3

Technical Requirements Manual (TRM) Revision 95