Please Note: The links below are not links directly to papers or videos; instead, they are links to the site in which the paper or video can be found once a registered attendee logs into the site.

CS-1: Structural Integrity of F	Pressure Components	Paper	Vid
PVP2020-21028	Strain Limits Against Local Fracture of Vessels and Components	Yes	Yes
PVP2020-21077	Residual-Stress, Material Characterization in P22 Hrsq-Pipeline Butt Joint	Yes	Yes
PVP2020-21319	Cross-Section Stress Analyses of Boiling Water Reactor and Pressurized Water Reactor Pressure Vessel Nozzle Corners Under Internal Pressure	Yes	No
PVP2020-21355	Investigation of Stress Intensification Factor (Sif) of 90 Degree Unreinforced Branch Connection	Yes	No
PVP2020-21358	Evaluation of Nozzle P-T Limit Curves for Korea Optimized Power Reactor.	Yes	Yes
PVP2020-21566	Technical Basis for Proposed Revisions to Asme Section Iii Code Case N-891 on Maximum Allowable Indentation Depths in Hdpe Pipe to Extend Applicability to Pent R		Ye
PVP2020-21569	Local Failure Analysis of Bolted Flanges	Yes	Yes
PVP2020-21570	Design Considerations for Half Pipe Jackets Operating Under Vacuum Conditions	Yes	No
PVP2020-21663	Background on Low Temperature Overpressure Protection System Setpoints	Yes	Ye
PVP2020-21783	Analysis of Hdpe Failure Data in Support of Development of Flaw Acceptance Criteria for Butt Fusion Joints	Yes	Ye
	s in Chinese Codes and Standards	Paper	Vic
PVP2020-21058	Application of Ultrasonic Guided Wave in Lmph Tube of Ethylene Cracking Furnace		Ye
PVP2020-21056 PVP2020-21061	Inspection Case Analysis of Natural Gas Manifold in a High Acid Gas Field	Yes Yes	Ye
	Research on Regulations and Standards for Inspection of Atmospheric Liquid Metal Tank Trucks for Hazardous Chemicals	Yes	No
PVP2020-21067 PVP2020-21088			
	Study on Acoustic Emission Detection Technology of Fiber Reinforced Plastics Pressure Vessel	<u>Yes</u>	No
PVP2020-21151	Research on Implementation Method and Technical Application of Risk Assessment to Storage Tank at National Petroleum Reserves	<u>Yes</u>	No
PVP2020-21155	Major Hazards Modelling of Pressurized Special Equipment in Chemical Industry Parks Based on Fcbpss Method	Yes	No
PVP2020-21164	Civa Simulation and Experiment Verification for Thin-Walled Small-Diameter Pipes by Using Phased Array Ultrasonic Testing	Yes	No
PVP2020-21199	Analysis of the Flange Seal Groove Cracking in a Hydrocracking Reactor	<u>Yes</u>	No
PVP2020-21205	Study on Numerical Simulation of Gas-Solid Erosion for Horizontal Feed Pipe	<u>Yes</u>	Ye
PVP2020-21212	A New Method for Preventing Plastic Collapse of Ellipsoidal Head Under Internal Pressure	<u>Yes</u>	Ye
PVP2020-21238	Safety Assessment of Pressure Vessels in Service for More Than 20 Years	<u>Yes</u>	<u>Ye</u>
PVP2020-21251	Failure Analysis of Flange Sealing Surface of Outlet Pipeline of Wax Oil Hydrogenation Reactor	Yes	No
PVP2020-21264	Experimental Investigation on Burst Pressure and Fatigue Life of Type-4 Lpg Cylinders	<u>Yes</u>	Ye
PVP2020-21342	Fitness for Service Assessment of a Propylene Heat Exchanger Subjected to Fire Damage	<u>Yes</u>	No
PVP2020-21352	Research on Chinese Codes and Standards of Heat Transfer Performance Testing for Heat Exchangers	Yes	No
PVP2020-21369	Current Situation and Prospect of Underground Gas Storage Well	Yes	No
PVP2020-21370	Performance Tests on Gas Storage Wells With/without Thread Defects	Yes	No
PVP2020-21417	Comparative Study on the Heated Band and Insulated Band Recommended by Different National Standards for Local Post Weld Heat Treatment	Yes	No
	s in European Codes and Standards	Paper	Vic
PVP2020-21717	Overview of Easics Weldment Assessment Route Development Through Inelastic Analysis	Yes	No
PVP2020-21720	Overview of Easics Validation Experiments and Code Comparison of R5, Rcc-Mrx and Asme Iii Section V	Yes	No
PVP2020-21721	Establishing Amr Structural Integrity Codes and Standards for Uk Gda (Easics): Overview of Activities to Provide Guidance for the Uk Generic Design Assessment Proc		No
S-13: High Temperature Co		Paper	Vic
PVP2020-21001	Elimination of Bwr Mark I Program Primary Containment Drywell-to-Wetwell Differential Pressure	Yes	Ye
PVP2020-21211	The Influence of Multiaxial Stress Relaxation on Component Creep Damage Accumulation in Biaxial, Mixed Primary and Secondary Loading on a Pipe	Yes	No
PVP2020-21328	Development of the Buckling Evaluation Method for Large Scale Vessel by the Testing of Gr. 91 Vessel Subjected to Vertical and Horizontal Loading	Yes	No
PVP2020-21420	The Impact of Carburisation on Creep Lifetime Analysis for Agr Bifurcation Weldments	Yes	No
PVP2020-21612	Codes and Standards for Managing Degradation of Boilers in Service.	<u>Yes</u>	Ye
	and Mitigation for Fitness-for-Service Rules	Paper	Vic
PVP2020-21054	Pipeline Crack Half-Life Versus 1.10 Safety Factor at Next Inspection	Yes	Yes
PVP2020-21300	Investigation of Relationship Between Microhardness and Charpy Impact Energy for Temper Bead Welding Qualification – Part 2	Yes	Yes
PVP2020-21544	Technical Basis for N-894 Weld Overlay Repair to Address Thermal Fatigue Cracking in Class 1, 2, and 3 Nuclear Reactor Piping	Yes	No
PVP2020-21708	Tempering Efficiency Evaluation for Dissimilar Metal Weld Overlays	Yes	Ye
PVP2020-21716	A Feasibility Study on Crack Repair in Austenitic Stainless Steel Dry Storage Canisters Using Isothermal Friction Stir Welding	Yes	No
PVP2020-21760	Example Application of Code Case N-894 Rules for Weld Overlay Repair of Thermal Fatigue Cracking	Yes	Ye
PVP2020-21832	Technical Basis Summary for Code Case N-860: Inspection Requirements and Evaluation Standards for Spent Nuclear Fuel Storage and Transportation Containment S	vet Yes	No

CS-15: Probabilistic and Risk	-Informed Methods for Structural Integrity Assessment	Paper	Video
PVP2020-21080	Estimating Pipe Rupture Frequencies Using Xlpr	Yes	Yes
PVP2020-21421	Extension of Pascal4 Code for Probabilistic Fracture Mechanics Analysis of Reactor Pressure Vessel in Boiling Water Reactor	Yes	Yes
PVP2020-21427	Probabilistic Fracture Mechanics Benchmarking Study Involving the XIpr and Pascal-Sp Codes -Analysis by Pascal-Sp-	Yes	Yes
PVP2020-21430	Improved Bayesian Update Method on Flaw Distributions Reflecting Non-Destructive Examination Result	Yes	Yes
PVP2020-21698	Bayesian Uncertainty Evaluation of Charpy Ductile-to-Brittle Transition Temperature for Reactor Pressure Vessel Steels	Yes	Yes
	Issues in Pressure Vessel and Piping Design	Paper	Video
PVP2020-21089	Efficient Fatigue and Ratcheting Computation in Case of Multi-Parameter Loading	Yes	No
PVP2020-21267	Critical Review of Asme Iii Plasticity Correction Factors for Fatigue Design-by-Analysis of Nuclear Power Plant Components	Yes	Yes
PVP2020-21383	A Historical Overview of Design Analyses and Experimental Observations of Ratcheting Phenomenon	Yes	No
PVP2020-21632	Investigation Into Methods for Determining Moment Ranges at Piping Tees and Branches	Yes	No
PVP2020-21658	Mode I Ductile Crack Growth of 1tct Specimen Under Large Cyclic Loading (Part Iv)	Yes	Yes
PVP2020-21822	Mean Stress Correction of S45c Carbon Streel Based on Crack Growth Concept	Yes	Yes
PVP2020-21841	Fatigue Considerations of Layered Pressure Vessels	Yes	Yes
CS-20: Fatigue Monitoring an		Paper	Video
PVP2020-21053	Advanced Component Fatigue Monitoring Approaches Using the Example of a Boiler Recirculation Pump	Yes	No
PVP2020-21426	A Method for Measuring Combined Stress of Small Bore Piping Around Weld in Field Using Strain Gauge Holder	Yes	Yes
PVP2020-21854	Fatigue Assessment of Dented Pipeline Specimens	Yes	Yes
	nd Other Small Specimen Mechanical Properties	Paper	Video
PVP2020-21104	Ductile Crack Growth Resistance and Rotation Behavior of Miniature C(t) Specimen	Yes	Yes
PVP2020-21515	Fracture Toughness Characterization of an A508-Type Weld Metal With the Mini-Ct Geometry Before and After Irradiation	Yes	Yes
PVP2020-21703	Small Punch Testing to Estimate the Tensile Properties of Additively Manufactured Ti-6al-4v	Yes	Yes
	ssessment & Management – A Probabilistic Perspective	Paper	Video
PVP2020-21752	Fatigue Life Modeling Using Nitinol Data	Yes	No
PVP2020-21756	An Assessment of Uncertainty in Design Factors and Strain-Rate Inputs for Environmentally-Assisted Fatigue and Related Margins	Yes	Yes
CS-3: Environmental Fatigue		Paper	Video
PVP2020-21009	Use of Average Temperature in Fen Calculations		No
	Use of Average Temperature in Fen Calculations	Yes	No
PVP2020-21009			
PVP2020-21009 PVP2020-21043	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2	Yes Yes Yes	No <u>Yes</u>
PVP2020-21009 PVP2020-21043 PVP2020-21050	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2 Fatigue Performance of Austenitic Stainless Steel - Enforced Endurance Limit and Questionable Design Curve	Yes Yes Yes	No <u>Yes</u> <u>Yes</u>
PVP2020-21009 PVP2020-21043 PVP2020-21050 PVP2020-21078	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2 Fatigue Performance of Austenitic Stainless Steel - Enforced Endurance Limit and Questionable Design Curve Study on Incorporation of New Design Fatigue Curves and a New Environmental Fatigue Correction Factor for Pwr Environment Into the Jsme Environmental Fatigue Ev Incefa-Plus Project: Lessons Learned From the Project Data and Impact on Existing Fatigue Assessment Procedures	Yes Yes Yes Yes Yes Yes Yes	No Yes Yes Yes Yes
PVP2020-21009 PVP2020-21043 PVP2020-21050 PVP2020-21078 PVP2020-21106	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2 Fatigue Performance of Austenitic Stainless Steel - Enforced Endurance Limit and Questionable Design Curve Study on Incorporation of New Design Fatigue Curves and a New Environmental Fatigue Correction Factor for Pwr Environment Into the Jsme Environmental Fatigue Ev Incefa-Plus Project: Lessons Learned From the Project Data and Impact on Existing Fatigue Assessment Procedures Grade and Temperature Dependent Reference Curves for Realistic Fen Quantification of Austenitic Stainless Steels	Yes Yes Yes Yes	No Yes Yes Yes Yes Yes Yes
PVP2020-21009 PVP2020-21043 PVP2020-21050 PVP2020-21078 PVP2020-21106 PVP2020-21136	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2 Fatigue Performance of Austenitic Stainless Steel - Enforced Endurance Limit and Questionable Design Curve Study on Incorporation of New Design Fatigue Curves and a New Environmental Fatigue Correction Factor for Pwr Environment Into the Jsme Environmental Fatigue Ev Incefa-Plus Project: Lessons Learned From the Project Data and Impact on Existing Fatigue Assessment Procedures Grade and Temperature Dependent Reference Curves for Realistic Fen Quantification of Austenitic Stainless Steels Incefa-Plus (Increasing Safety in Npps by Covering Gaps in Environmental Fatigue Assessment	Yes	No Yes Yes Yes Yes Yes Yes Yes
PVP2020-21009 PVP2020-21043 PVP2020-21050 PVP2020-21078 PVP2020-21106 PVP2020-21136 PVP2020-21220	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2 Fatigue Performance of Austenitic Stainless Steel - Enforced Endurance Limit and Questionable Design Curve Study on Incorporation of New Design Fatigue Curves and a New Environmental Fatigue Correction Factor for Pwr Environment Into the Jsme Environmental Fatigue Ev Incefa-Plus Project: Lessons Learned From the Project Data and Impact on Existing Fatigue Assessment Procedures Grade and Temperature Dependent Reference Curves for Realistic Fen Quantification of Austenitic Stainless Steels	Yes Yes Yes all Yes Yes Yes Yes Yes Yes Yes Yes	No Yes Yes Yes Yes Yes Yes Yes Yes Yes
PVP2020-21009 PVP2020-21043 PVP2020-21050 PVP2020-21078 PVP2020-21106 PVP2020-21136 PVP2020-21220 PVP2020-21262	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2 Fatigue Performance of Austenitic Stainless Steel - Enforced Endurance Limit and Questionable Design Curve Study on Incorporation of New Design Fatigue Curves and a New Environmental Fatigue Correction Factor for Pwr Environment Into the Jsme Environmental Fatigue Ev Incefa-Plus Project: Lessons Learned From the Project Data and Impact on Existing Fatigue Assessment Procedures Grade and Temperature Dependent Reference Curves for Realistic Fen Quantification of Austenitic Stainless Steels Incefa-Plus (Increasing Safety in Npps by Covering Gaps in Environmental Fatigue Assessment Further Evidence of Margin for Environmental Effects, Termed Fenthreshold, in the Asme Section Iii Design Fatigue Curve for Austenitic Stainless Steels Through the Interval	Yes	No Yes Yes Yes Yes Yes Yes Yes
PVP2020-21009 PVP2020-21043 PVP2020-21050 PVP2020-21078 PVP2020-21106 PVP2020-21136 PVP2020-21220 PVP2020-21220 PVP2020-21373	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2 Fatigue Performance of Austenitic Stainless Steel - Enforced Endurance Limit and Questionable Design Curve Study on Incorporation of New Design Fatigue Curves and a New Environmental Fatigue Correction Factor for Pwr Environment Into the Jsme Environmental Fatigue Ev Incefa-Plus Project: Lessons Learned From the Project Data and Impact on Existing Fatigue Assessment Procedures Grade and Temperature Dependent Reference Curves for Realistic Fen Quantification of Austenitic Stainless Steels Incefa-Plus (Increasing Safety in Npps by Covering Gaps in Environmental Fatigue Assessment Further Evidence of Margin for Environmental Effects, Termed Fenthreshold, in the Asme Section Iii Design Fatigue Curve for Austenitic Stainless Steels Through the Int Strain Control Correction for Fatigue Testing in Lwr Environments	Yes Yes Yes alt Yes	No Yes
PVP2020-21009 PVP2020-21043 PVP2020-21050 PVP2020-21078 PVP2020-21106 PVP2020-21136 PVP2020-21220 PVP2020-21262 PVP2020-21373 PVP2020-21377	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2 Fatigue Performance of Austenitic Stainless Steel - Enforced Endurance Limit and Questionable Design Curve Study on Incorporation of New Design Fatigue Curves and a New Environmental Fatigue Correction Factor for Pwr Environment Into the Jsme Environmental Fatigue Ev Incefa-Plus Project: Lessons Learned From the Project Data and Impact on Existing Fatigue Assessment Procedures Grade and Temperature Dependent Reference Curves for Realistic Fen Quantification of Austenitic Stainless Steels Incefa-Plus (Increasing Safety in Npps by Covering Gaps in Environmental Fatigue Assessment Further Evidence of Margin for Environmental Effects, Termed Fenthreshold, in the Asme Section Iii Design Fatigue Curve for Austenitic Stainless Steels Through the Int Strain Control Correction for Fatigue Testing in Lwr Environments Incefa-Plus Project: Review of the Test Programme	Yes	No Yes
PVP2020-21009 PVP2020-21043 PVP2020-21050 PVP2020-21078 PVP2020-21106 PVP2020-21136 PVP2020-21220 PVP2020-21262 PVP2020-21373 PVP2020-21377 PVP2020-21406	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2 Fatigue Performance of Austenitic Stainless Steel - Enforced Endurance Limit and Questionable Design Curve Study on Incorporation of New Design Fatigue Curves and a New Environmental Fatigue Correction Factor for Pwr Environment Into the Jsme Environmental Fatigue Ev Incefa-Plus Project: Lessons Learned From the Project Data and Impact on Existing Fatigue Assessment Procedures Grade and Temperature Dependent Reference Curves for Realistic Fen Quantification of Austenitic Stainless Steels Incefa-Plus (Increasing Safety in Npps by Covering Gaps in Environmental Fatigue Assessment Further Evidence of Margin for Environmental Effects, Termed Fenthreshold, in the Asme Section Iii Design Fatigue Curve for Austenitic Stainless Steels Through the Int Strain Control Correction for Fatigue Testing in Lwr Environments Incefa-Plus Project: Review of the Test Programme Results From Environmentally-Assisted Short Crack Fatigue Testing on Austenitic Stainless Steels Incefa-Plus Project: The Impact of Using Fatigue Data Generated From Multiple Specimen Geometries on the Outcome of a Regression Analysis Thermo-Mechanical Fatigue Crack Growth Testing	Yes	No Yes
PVP2020-21009 PVP2020-21043 PVP2020-21050 PVP2020-21078 PVP2020-21106 PVP2020-21136 PVP2020-21220 PVP2020-21262 PVP2020-21373 PVP2020-21377 PVP2020-21406 PVP2020-21422	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2 Fatigue Performance of Austenitic Stainless Steel - Enforced Endurance Limit and Questionable Design Curve Study on Incorporation of New Design Fatigue Curves and a New Environmental Fatigue Correction Factor for Pwr Environment Into the Jsme Environmental Fatigue Ev Incefa-Plus Project: Lessons Learned From the Project Data and Impact on Existing Fatigue Assessment Procedures Grade and Temperature Dependent Reference Curves for Realistic Fen Quantification of Austenitic Stainless Steels Incefa-Plus (Increasing Safety in Npps by Covering Gaps in Environmental Fatigue Assessment Further Evidence of Margin for Environmental Effects, Termed Fenthreshold, in the Asme Section Iii Design Fatigue Curve for Austenitic Stainless Steels Through the Int Strain Control Correction for Fatigue Testing in Lwr Environments Incefa-Plus Project: Review of the Test Programme Results From Environmentally-Assisted Short Crack Fatigue Testing on Austenitic Stainless Steels Incefa-Plus Project: The Impact of Using Fatigue Data Generated From Multiple Specimen Geometries on the Outcome of a Regression Analysis	Yes Yes Yes All Yes	No Yes
PVP2020-21009 PVP2020-21043 PVP2020-21050 PVP2020-21078 PVP2020-21106 PVP2020-21136 PVP2020-21220 PVP2020-21262 PVP2020-21373 PVP2020-21377 PVP2020-21406 PVP2020-21422 PVP2020-21424	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2 Fatigue Performance of Austenitic Stainless Steel - Enforced Endurance Limit and Questionable Design Curve Study on Incorporation of New Design Fatigue Curves and a New Environmental Fatigue Correction Factor for Pwr Environment Into the Jsme Environmental Fatigue Ev Incefa-Plus Project: Lessons Learned From the Project Data and Impact on Existing Fatigue Assessment Procedures Grade and Temperature Dependent Reference Curves for Realistic Fen Quantification of Austenitic Stainless Steels Incefa-Plus (Increasing Safety in Npps by Covering Gaps in Environmental Fatigue Assessment Further Evidence of Margin for Environmental Effects, Termed Fenthreshold, in the Asme Section Iii Design Fatigue Curve for Austenitic Stainless Steels Through the Int Strain Control Correction for Fatigue Testing in Lwr Environments Incefa-Plus Project: Review of the Test Programme Results From Environmentally-Assisted Short Crack Fatigue Testing on Austenitic Stainless Steels Incefa-Plus Project: The Impact of Using Fatigue Data Generated From Multiple Specimen Geometries on the Outcome of a Regression Analysis Thermo-Mechanical Fatigue Crack Growth Testing	Yes	No Yes
PVP2020-21009 PVP2020-21043 PVP2020-21050 PVP2020-21106 PVP2020-21136 PVP2020-21220 PVP2020-21262 PVP2020-21373 PVP2020-21377 PVP2020-21406 PVP2020-21422 PVP2020-21424 PVP2020-21501	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2 Fatigue Performance of Austenitic Stainless Steel - Enforced Endurance Limit and Questionable Design Curve Study on Incorporation of New Design Fatigue Curves and a New Environmental Fatigue Correction Factor for Pwr Environment Into the Jsme Environmental Fatigue Ev Incefa-Plus Project: Lessons Learned From the Project Data and Impact on Existing Fatigue Assessment Procedures Grade and Temperature Dependent Reference Curves for Realistic Fen Quantification of Austenitic Stainless Steels Incefa-Plus (Increasing Safety in Npps by Covering Gaps in Environmental Fatigue Assessment Further Evidence of Margin for Environmental Effects, Termed Fenthreshold, in the Asme Section Iii Design Fatigue Curve for Austenitic Stainless Steels Through the Int Strain Control Correction for Fatigue Testing in Lwr Environments Incefa-Plus Project: Review of the Test Programme Results From Environmentally-Assisted Short Crack Fatigue Testing on Austenitic Stainless Steels Incefa-Plus Project: The Impact of Using Fatigue Data Generated From Multiple Specimen Geometries on the Outcome of a Regression Analysis Thermo-Mechanical Fatigue Crack Growth Testing Codes, Standards, Rules and Assumptions on Environment Assisted Fatigue for Fatigue Management of Primary Piping	Yes	No Yes
PVP2020-21009 PVP2020-21043 PVP2020-21050 PVP2020-21078 PVP2020-21106 PVP2020-21136 PVP2020-21220 PVP2020-21262 PVP2020-21373 PVP2020-21377 PVP2020-21406 PVP2020-21422 PVP2020-21424 PVP2020-21501 PVP2020-21560	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2 Fatigue Performance of Austenitic Stainless Steel - Enforced Endurance Limit and Questionable Design Curve Study on Incorporation of New Design Fatigue Curves and a New Environmental Fatigue Correction Factor for Pwr Environment Into the Jsme Environmental Fatigue Ev Incefa-Plus Project: Lessons Learned From the Project Data and Impact on Existing Fatigue Assessment Procedures Grade and Temperature Dependent Reference Curves for Realistic Fen Quantification of Austenitic Stainless Steels Incefa-Plus (Increasing Safety in Npps by Covering Gaps in Environmental Fatigue Assessment Further Evidence of Margin for Environmental Effects, Termed Fenthreshold, in the Asme Section Iii Design Fatigue Curve for Austenitic Stainless Steels Through the Int Strain Control Correction for Fatigue Testing in Lwr Environments Incefa-Plus Project: Review of the Test Programme Results From Environmentally-Assisted Short Crack Fatigue Testing on Austenitic Stainless Steels Incefa-Plus Project: The Impact of Using Fatigue Data Generated From Multiple Specimen Geometries on the Outcome of a Regression Analysis Thermo-Mechanical Fatigue Crack Growth Testing Codes, Standards, Rules and Assumptions on Environmental Fatigue For Fatigue Management of Primary Piping Method for Comparison of Different Material Types in Environmental Fatigue Screening Further Development of Fatigue Crack Growth Expressions for Austenitic Stainless Steels in Pwr Water and Additional Validation of the Wtkr Method Investigation Into Crack Closure Effects for Fatigue Crack Growth Under Negative R Conditions	Yes	No Yes
PVP2020-21009 PVP2020-21043 PVP2020-21050 PVP2020-21078 PVP2020-21136 PVP2020-21136 PVP2020-21220 PVP2020-21220 PVP2020-21373 PVP2020-21377 PVP2020-21406 PVP2020-21422 PVP2020-21424 PVP2020-21501 PVP2020-21560 PVP2020-21585	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2 Fatigue Performance of Austenitic Stainless Steel - Enforced Endurance Limit and Questionable Design Curve Study on Incorporation of New Design Fatigue Curves and a New Environmental Fatigue Correction Factor for Pwr Environment Into the Jsme Environmental Fatigue Ev Incefa-Plus Project: Lessons Learned From the Project Data and Impact on Existing Fatigue Assessment Procedures Grade and Temperature Dependent Reference Curves for Realistic Fen Quantification of Austenitic Stainless Steels Incefa-Plus (Increasing Safety in Npps by Covering Gaps in Environmental Fatigue Assessment Further Evidence of Margin for Environmental Effects, Termed Fenthreshold, in the Asme Section Iii Design Fatigue Curve for Austenitic Stainless Steels Through the Int Strain Control Correction for Fatigue Testing in Lwr Environments Incefa-Plus Project: Review of the Test Programme Results From Environmentally-Assisted Short Crack Fatigue Testing on Austenitic Stainless Steels Incefa-Plus Project: The Impact of Using Fatigue Data Generated From Multiple Specimen Geometries on the Outcome of a Regression Analysis Thermo-Mechanical Fatigue Crack Growth Testing Codes, Standards, Rules and Assumptions on Environmental Fatigue for Fatigue Management of Primary Piping Method for Comparison of Different Material Types in Environmental Fatigue Screening Further Development of Fatigue Crack Growth Expressions for Austenitic Stainless Steels in Pwr Water and Additional Validation of the Wtkr Method	Yes	No Yes
PVP2020-21009 PVP2020-21043 PVP2020-21050 PVP2020-21078 PVP2020-21136 PVP2020-21136 PVP2020-21220 PVP2020-21220 PVP2020-21373 PVP2020-21377 PVP2020-21406 PVP2020-21422 PVP2020-21422 PVP2020-21501 PVP2020-21560 PVP2020-21585 PVP2020-21627	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2 Fatigue Performance of Austenitic Stainless Steel - Enforced Endurance Limit and Questionable Design Curve Study on Incorporation of New Design Fatigue Curves and a New Environmental Fatigue Correction Factor for Pwr Environment Into the Jsme Environmental Fatigue Ev Incefa-Plus Project: Lessons Learned From the Project Data and Impact on Existing Fatigue Assessment Procedures Grade and Temperature Dependent Reference Curves for Realistic Fen Quantification of Austenitic Stainless Steels Incefa-Plus (Increasing Safety in Npps by Covering Gaps in Environmental Fatigue Assessment Further Evidence of Margin for Environmental Effects, Termed Fenthreshold, in the Asme Section Iii Design Fatigue Curve for Austenitic Stainless Steels Through the Int Strain Control Correction for Fatigue Testing in Lwr Environments Incefa-Plus Project: Review of the Test Programme Results From Environmentally-Assisted Short Crack Fatigue Testing on Austenitic Stainless Steels Incefa-Plus Project: The Impact of Using Fatigue Data Generated From Multiple Specimen Geometries on the Outcome of a Regression Analysis Thermo-Mechanical Fatigue Crack Growth Testing Codes, Standards, Rules and Assumptions on Environmental Fatigue For Fatigue Management of Primary Piping Method for Comparison of Different Material Types in Environmental Fatigue Screening Further Development of Fatigue Crack Growth Expressions for Austenitic Stainless Steels in Pwr Water and Additional Validation of the Wtkr Method Investigation Into Crack Closure Effects for Fatigue Crack Growth Under Negative R Conditions	Yes	No Yes
PVP2020-21009 PVP2020-21043 PVP2020-21050 PVP2020-21078 PVP2020-21136 PVP2020-21136 PVP2020-21220 PVP2020-21262 PVP2020-21373 PVP2020-21377 PVP2020-21406 PVP2020-21422 PVP2020-21424 PVP2020-21501 PVP2020-21560 PVP2020-21585 PVP2020-21627 PVP2020-21678	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2 Fatigue Performance of Austenitic Stainless Steel - Enforced Endurance Limit and Questionable Design Curve Study on Incorporation of New Design Fatigue Curves and a New Environmental Fatigue Correction Factor for Pwr Environment Into the Jsme Environmental Fatigue Ev Incefa-Plus Project: Lessons Learned From the Project Data and Impact on Existing Fatigue Assessment Procedures Grade and Temperature Dependent Reference Curves for Realistic Fen Quantification of Austenitic Stainless Steels Incefa-Plus (Increasing Safety in Npps by Covering Gaps in Environmental Fatigue Assessment Further Evidence of Margin for Environmental Effects, Termed Fenthreshold, in the Asme Section Iii Design Fatigue Curve for Austenitic Stainless Steels Through the Int Strain Control Correction for Fatigue Testing in Lwr Environments Incefa-Plus Project: Review of the Test Programme Results From Environmentally-Assisted Short Crack Fatigue Testing on Austenitic Stainless Steels Incefa-Plus Project: The Impact of Using Fatigue Data Generated From Multiple Specimen Geometries on the Outcome of a Regression Analysis Thermo-Mechanical Fatigue Crack Growth Testing Codes, Standards, Rules and Assumptions on Environment Assisted Fatigue For Fatigue Management of Primary Piping Method for Comparison of Different Material Types in Environmental Fatigue Screening Further Development of Fatigue Crack Growth Expressions for Austenitic Stainless Steels in Pwr Water and Additional Validation of the Wtkr Method Investigation Into Crack Closure Effects for Fatigue Crack Growth Under Negative R Conditions Environmental Fatigue Screening of Primary Equipment for Subsequent License Renewal Recent Argonne National Laboratory Estimated Thermal Expansion Coefficients for Reactor Pressure Boundary Base, Smw and Dmw Metals	Yes	No Yes
PVP2020-21009 PVP2020-21043 PVP2020-21050 PVP2020-21078 PVP2020-21136 PVP2020-21136 PVP2020-21220 PVP2020-21262 PVP2020-21373 PVP2020-21377 PVP2020-21406 PVP2020-21422 PVP2020-21424 PVP2020-21501 PVP2020-21560 PVP2020-21585 PVP2020-21627 PVP2020-21678 PVP2020-21678	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2 Fatigue Performance of Austenitic Stainless Steel - Enforced Endurance Limit and Questionable Design Curve Study on Incorporation of New Design Fatigue Curves and a New Environmental Fatigue Correction Factor for Pwr Environment Into the Jsme Environmental Fatigue Ev Incefa-Plus Project: Lessons Learned From the Project Data and Impact on Existing Fatigue Assessment Procedures Grade and Temperature Dependent Reference Curves for Realistic Fen Quantification of Austenitic Stainless Steels Incefa-Plus (Increasing Safety in Npps by Covering Gaps in Environmental Fatigue Assessment Further Evidence of Margin for Environmental Effects, Termed Fenthreshold, in the Asme Section Iii Design Fatigue Curve for Austenitic Stainless Steels Through the Int Strain Control Correction for Fatigue Testing in Lwr Environments Incefa-Plus Project: Review of the Test Programme Results From Environmentally-Assisted Short Crack Fatigue Testing on Austenitic Stainless Steels Incefa-Plus Project: The Impact of Using Fatigue Data Generated From Multiple Specimen Geometries on the Outcome of a Regression Analysis Thermo-Mechanical Fatigue Crack Growth Testing Codes, Standards, Rules and Assumptions on Environment Assisted Fatigue for Fatigue Management of Primary Piping Method for Comparison of Different Material Types in Environmental Fatigue Screening Further Development of Fatigue Crack Growth Expressions for Austenitic Stainless Steels in Pwr Water and Additional Validation of the Wtkr Method Investigation Into Crack Closure Effects for Fatigue Crack Growth Under Negative R Conditions Environmental Fatigue Screening of Primary Equipment for Subsequent License Renewal Recent Argonne National Laboratory Estimated Thermal Expansion Coefficients for Reactor Pressure Boundary Base, Smw and Dmw Metals and Applications A Code Case Concerning the Effect of Embrittlement on Index Temperature Metrics	Yes Yes Yes alı Yes	No Yes
PVP2020-21009 PVP2020-21043 PVP2020-21050 PVP2020-21078 PVP2020-21106 PVP2020-21136 PVP2020-21220 PVP2020-21262 PVP2020-21373 PVP2020-21377 PVP2020-21406 PVP2020-21422 PVP2020-21424 PVP2020-21501 PVP2020-21560 PVP2020-21585 PVP2020-21627 PVP2020-21678 PVP2020-21828 CS-31: Master Curve Method	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2 Fatigue Performance of Austenitic Stainless Steel - Enforced Endurance Limit and Questionable Design Curve Study on Incorporation of New Design Fatigue Curves and a New Environmental Fatigue Correction Factor for Pwr Environment Into the Jsme Environmental Fatigue Ev Incefa-Plus Project: Lessons Learned From the Project Data and Impact on Existing Fatigue Assessment Procedures Grade and Temperature Dependent Reference Curves for Realistic Fen Quantification of Austenitic Stainless Steels Incefa-Plus (Increasing Safety in Npps by Covering Gaps in Environmental Fatigue Assessment Further Evidence of Margin for Environmental Effects, Termed Fenthreshold, in the Asme Section Iii Design Fatigue Curve for Austenitic Stainless Steels Through the Int Strain Control Correction for Fatigue Testing in Lwr Environments Incefa-Plus Project: Review of the Test Programme Results From Environmentally-Assisted Short Crack Fatigue Testing on Austenitic Stainless Steels Incefa-Plus Project: The Impact of Using Fatigue Data Generated From Multiple Specimen Geometries on the Outcome of a Regression Analysis Thermo-Mechanical Fatigue Crack Growth Testing Codes, Standards, Rules and Assumptions on Environment Assisted Fatigue For Fatigue Management of Primary Piping Method for Comparison of Different Material Types in Environmental Fatigue Screening Further Development of Fatigue Crack Growth Expressions for Austenitic Stainless Steels in Pwr Water and Additional Validation of the Wtkr Method Investigation Into Crack Closure Effects for Fatigue Crack Growth Under Negative R Conditions Environmental Fatigue Screening of Primary Equipment for Subsequent License Renewal Recent Argonne National Laboratory Estimated Thermal Expansion Coefficients for Reactor Pressure Boundary Base, Smw and Dmw Metals	Yes Yes Yes All Yes	No Yes
PVP2020-21009 PVP2020-21043 PVP2020-21050 PVP2020-21078 PVP2020-21106 PVP2020-21136 PVP2020-21220 PVP2020-21373 PVP2020-21377 PVP2020-21377 PVP2020-21406 PVP2020-21422 PVP2020-21424 PVP2020-21501 PVP2020-21560 PVP2020-21585 PVP2020-21627 PVP2020-21678 PVP2020-21828 CS-31: Master Curve Method PVP2020-21185	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2 Fatigue Performance of Austenitic Stainless Steel - Enforced Endurance Limit and Questionable Design Curve Study on Incorporation of New Design Fatigue Curves and a New Environmental Fatigue Correction Factor for Pwr Environment Into the Jsme Environmental Fatigue Ev Incefa-Plus Project: Lessons Learned From the Project Data and Impact on Existing Fatigue Assessment Procedures Grade and Temperature Dependent Reference Curves for Realistic Fen Quantification of Austenitic Stainless Steels Incefa-Plus (Increasing Safety in Npps by Covering Gaps in Environmental Fatigue Assessment Further Evidence of Margin for Environmental Effects, Termed Fenthreshold, in the Asme Section Iii Design Fatigue Curve for Austenitic Stainless Steels Through the Int Strain Control Correction for Fatigue Testing in Lwr Environments Incefa-Plus Project: Review of the Test Programme Results From Environmentally-Assisted Short Crack Fatigue Testing on Austenitic Stainless Steels Incefa-Plus Project: The Impact of Using Fatigue Data Generated From Multiple Specimen Geometries on the Outcome of a Regression Analysis Thermo-Mechanical Fatigue Crack Growth Testing Codes, Standards, Rules and Assumptions on Environment Assisted Fatigue for Fatigue Management of Primary Piping Method for Comparison of Different Material Types in Environmental Fatigue Screening Further Development of Fatigue Crack Growth Expressions for Austenitic Stainless Steels in Pwr Water and Additional Validation of the Wtkr Method Investigation Into Crack Closure Effects for Fatigue Crack Growth Under Negative R Conditions Environmental Fatigue Screening of Primary Equipment for Subsequent License Renewal Recent Argonne National Laboratory Estimated Thermal Expansion Coefficients for Reactor Pressure Boundary Base, Smw and Dmw Metals and Applications A Code Case Concerning the Effect of Embrittlement on Index Temperature Metrics	Yes	No Yes
PVP2020-21009 PVP2020-21043 PVP2020-21050 PVP2020-21078 PVP2020-21106 PVP2020-21136 PVP2020-21220 PVP2020-21262 PVP2020-21373 PVP2020-21377 PVP2020-21406 PVP2020-21406 PVP2020-21422 PVP2020-21501 PVP2020-21501 PVP2020-21560 PVP2020-21585 PVP2020-21627 PVP2020-21627 PVP2020-21678 PVP2020-21828 CS-31: Master Curve Method PVP2020-21185 PVP2020-21186	Use of Average Temperature in Fen Calculations Fatigue Benchmark Comparison Effort Between Code_aster and Cnnc/npic Software – Part 2 Fatigue Performance of Austenitic Stainless Steel - Enforced Endurance Limit and Questionable Design Curve Study on Incorporation of New Design Fatigue Curves and a New Environmental Fatigue Correction Factor for Pwr Environment Into the Jsme Environmental Fatigue Ev Incefa-Plus Project: Lessons Learned From the Project Data and Impact on Existing Fatigue Assessment Procedures Grade and Temperature Dependent Reference Curves for Realistic Fen Quantification of Austenitic Stainless Steels Incefa-Plus (Increasing Safety in Npps by Covering Gaps in Environmental Fatigue Assessment Further Evidence of Margin for Environmental Effects, Termed Fenthreshold, in the Asme Section Iii Design Fatigue Curve for Austenitic Stainless Steels Through the Int Strain Control Correction for Fatigue Testing in Lwr Environments Incefa-Plus Project: Review of the Test Programme Results From Environmentally-Assisted Short Crack Fatigue Testing on Austenitic Stainless Steels Incefa-Plus Project: The Impact of Using Fatigue Data Generated From Multiple Specimen Geometries on the Outcome of a Regression Analysis Thermo-Mechanical Fatigue Crack Growth Testing Codes, Standards, Rules and Assumptions on Environmental Fatigue Screening Method for Comparison of Different Material Types in Environmental Fatigue Screening Further Development of Fatigue Crack Growth Expressions for Austenitic Stainless Steels in Pwr Water and Additional Validation of the Wtkr Method Investigation Into Crack Closure Effects for Fatigue Crack Growth Under Negative R Conditions Environmental Fatigue Screening of Primary Equipment for Subsequent License Renewal Recent Argonne National Laboratory Estimated Thermal Expansion Coefficients for Reactor Pressure Boundary Base, Smw and Dmw Metals and Applications A Code Case Concerning the Effect of Embrittlement on Index Temperature Metrics Assessment of the Continued Need for Limits on B	Yes	No Yes

•	Characterization Rules for FFS	Paper	Video
PVP2020-21441	Constraint Effect on Fracture Mechanics Evaluation for an Under-Clad Crack in a Reactor Pressure Vessel Steel	Yes	Yes
PVP2020-21452	Assessment of Flaw Interaction Under Combined Tensile and Bending Stresses: Suitability of Asme Code Case N877-1	Yes	Yes
PVP2020-21455	Treatment of the Interaction With the Free Surface of the Component for Combined Subsurface Flaws – Technical Basis for Revision of Iwa-3300 and Table Iwb/iwc-3510-	Yes	Yes
PVP2020-21456	A Comparison of Stress Intensity Factor Solutions for Surface Cracked Plates	Yes	Yes
PVP2020-21549	Stress Intensity Factor and Crack Opening Area of Cracked Pipe Under Torsion Moment	Yes	Yes
PVP2020-21672	Allowable External Flaws and Acceptance Standards for High Toughness Ductile Pipes Subjected to Bending Moment and Internal Pressure	Yes	No
PVP2020-21806	Prediction of Collapse Load Reduction Due to Non-Aligned Multiple Flaws	Yes	Yes
-36: Very High Cycle Fatigu		Paper	Video
PVP2020-21460	Investigation of the Very High Cycle Fatigue (Vhcf) Behavior of Austenitic Stainless Steels and Their Welds for Reactor Internals at Ambient Temperature and 300 °C	Yes	Yes
	dards for Pressure Equipment Overview	Paper	Video
PVP2020-21120	Introduction of the Technical Document in Japan for Safety Use of Type2 Pressure Vessels in Hydrogen Refueling Stations	Yes	No
PVP2020-21172	Study on the Influence of Crack Growth Behavior on Fatique Life in Simulated Reactor Coolant Environment of Different Temperature	Yes	Yes
PVP2020-21210	Measurement of the Hydrogen Permeability of Various Polymers for High Pressure Hydrogen Storage Vessel	Yes	No
PVP2020-21380	Method and Application of Pipeline Integrity Management Performance Evaluation	Yes	Yes
PVP2020-21616	Asme Xi - Rsem - Flaw Evaluation Comparison	Yes	No
PVP2020-21622	European Pressure Equpment Research Council - Eperc - Status and First Results	Yes	No
			No
PVP2020-21790	Overview of Uk Policy and Research Landscape Relevant to Deploying Advanced Nuclear Technologies in the Uk	<u>Yes</u>	
PVP2020-21861	Qualification of a Non-Standard Piping Component for Asme Pressure Piping Applications	Yes	No
-44: Total Life Reliability M		Paper	Vide
PVP2020-21545	Application of Environmentally Assisted Fatigue Transient Ramp Times Optimization in Design Evaluations and Fatigue Monitoring Algorithms	<u>Yes</u>	Yes
PVP2020-21706	Proposal for a Total Fatigue Life Assessment Methodology That Predicts Fatigue Life From Defect Initiation to Through Wall Leak	Yes	No
PVP2020-21769	Probabilistic Leak-Before-Break Using the R6 Procedure	Yes	Yes
PVP2020-21846	Fatigue Failure Predictions Based on Fea Fracture Mechanics Simulations	<u>Yes</u>	No
•	n ASME Codes and Standards	Paper	Vide
PVP2020-21306	Uncertainty Quantification of Viscoplastic Parameters for Grade 91 Steel Through Bayesian Analysis	Yes	No
PVP2020-21469	Development of Design Method for High Temperature Nuclear Reactor Cladded Components	Yes	Yes
PVP2020-21470	A High Temperature Primary Load Design Method Based on Elastic Perfectly-Plasticity and Simplified Inelastic Analysis	Yes	No
PVP2020-21471	Investigating the Correlation Between Different Effective Stress Measures and the Service Life of Actual High-Temperature Structural Components	Yes	Yes
PVP2020-21493	Selection Criteria for Clad Materials to Use With a 316h Base Material for High Temperature Nuclear Reactor Cladded Components	Yes	Yes
PVP2020-21494	Acceptance Criteria for the Mechanical Integrity of Clad/base Metal Interface for High Temperature Nuclear Reactor Cladded Components	Yes	Yes
PVP2020-21572	Evaluation of Mean Stress Correction on Fatique Curves of Grade 91 and Alloy 617 in Asme Section Iii Division 5	Yes	Yes
PVP2020-21587	The Impact of Geometric Discontinuities on Alloy 617 Creep-Rupture Behavior	Yes	Yes
-9: ASME Code Section XI		Paper	Vide
PVP2020-21051	Application of Ni Electroplating for Pwr Reactor Vessel Cladding Repair	Yes	No
PVP2020-21438	Comparison of Stress Intensity Factor Coefficients for Plates and Cylinders Under Membrane Stress	Yes	Yes
PVP2020-21690	Review of Technical Basis for Asme Code Section Xi Appendix L	Yes	Yes
PVP2020-21711	Technical Basis for Revision to Asme Section Xi Appendix C for Stress Corrosion Crack Growth Rate Equations for Alloy 600 and Associated Welds	Yes	Yes
PVP2020-21711	Application of Asme Code Section Xi Appendix U Using 3-D Finite Element Analyses	Yes	No
		163	NO
uter Technology & Bol		_	
-1: Design and Analysis of		Paper	Vide
PVP2020-21000	An Analytical Anisotropic Model to Analyze Fiber Reinforced Plastic Bolted Flange Joints	<u>Yes</u>	Yes
PVP2020-21138	An Estimation of Long-Term Sealing Performance for Bolted Pipe Flange Connections With Spiral Wound Gaskets Under Elevated Temperature	Yes	No
PVP2020-21148	Finger Flange Designs on Cast Equipment	Yes	Yes
PVP2020-21202	Experimental Study on the Characteristics of Bolted Pipe Flange Connection Under Bending Moment and Internal Pressure	Yes	Yes
PVP2020-21206	Multi-Bolt Tightening Algorithm Based on Elastic Interaction Coefficient and Gasket Creep Relaxation	Yes	No
PVP2020-21575	Numerical Simulation of the Assembly Process of Bolted Flange Joints Used in Rotating Machinery	Yes	Yes
PVP2020-21718	Influence of Structural Interface Opening of Bolted Joints Under Eccentric Load	Yes	Yes
-12: Computational FEA for	r Limit Load and Elastic-Plastic Analysis and Creep	Paper	Vide
PVP2020-21012	Stress Analysis of Ss316I Tube Expansion in High Pressure Gas Coolers	Yes	Yes
PVP2020-21527	Assessment of Section Iii Appendix Xiii-3230 Plastic Analysis	Yes	Yes

	s for Innovative and Light Weight Materials	Paper	Vide
PVP2020-21506	Effect of Material and Lubrication Conditions on the Underhead Frictional Response in High Strength Socket-Head Screws	<u>Yes</u>	Yes
PVP2020-21541	Experimental Investigation on the Friction Coefficients for Different Materials, Lubrication Conditions and Coatings in Bolted Joints	<u>Yes</u>	Yes
CT-2: Packing and Valves		Paper	Vide
PVP2020-21459	The Effect of Thermal Cycling and Packing Stress on Stem Friction and Sealability	<u>Yes</u>	Yes
CT-3: Leak Tightness and Fug		Paper	Vide
PVP2020-21167	Analysis of Gasket Load Loss Versus Gasket Leakage	<u>Yes</u>	No
PVP2020-21221	Fem Stress Analysis and Leakage Behavior of Pipe-Socket Threaded Joints Subjected to Bending Moment and Internal Pressure	<u>Yes</u>	Yes
PVP2020-21473	Estimation of Tightness of Bolted Flange Connections Subjected to Combined Loads of Axial Load and Bending Moment	<u>Yes</u>	No
PVP2020-21829	Statistical and Lifetime Characterization of Ptfe Materials for Extreme Environments	<u>Yes</u>	No
CT-4: Assembly of Bolted Joi		Paper	Vide
PVP2020-21248	Effects of Stud Galling on Bfja Performance	<u>Yes</u>	No
PVP2020-21305	Practical Estimation of Re-Torque Requirements	<u>Yes</u>	No
PVP2020-21402	Considerations for Assuring the Integrity of Low Strength Material Pressure Boundary Flanged Joints	<u>Yes</u>	No
PVP2020-21683	Verification of Flange Rigidity Index for Standard Flanges Using Finite Element Analysis	<u>Yes</u>	Yes
PVP2020-21726	The Effect of Water Absorption on the Mechanical Performance of Gasket Materials	<u>Yes</u>	No
CT-5: Threaded Fasteners		Paper	Vid
PVP2020-21348	An Experimental Study on the Effect of Re-Tightening in Service on the Self-Loosening Performance of Threaded Fasteners	<u>Yes</u>	No
PVP2020-21409	Understanding the K Factor vs μ (Cof) Relationship	<u>Yes</u>	No
PVP2020-21414	Effects of Environment Ambient Temperatures on Friction Coefficients for Lubricants Used With Fasteners	<u>Yes</u>	No
PVP2020-21440	An Effect of Bearing Surface Angle at Bolt Head on the Nut Factor and Contact Area Ratio in Tightening Bolted Joints	Yes	No
PVP2020-21836	Effect of Friction Coefficients on Bolt Self-Loosening	Yes	Yes
T-6: Elevated Temperature I	Behavior of Bolted Flange Joints	Paper	Vid
PVP2020-21002	Relaxation of the Bolted Flange Connection	Yes	Yes
T-7: Computational Applica	tions in Fatigue, Fracture, and Damage Mechanics	Paper	Vid
PVP2020-21014	Mode I Stress Intensity Factors for Small Defects in a Large Diameter Threaded Fastener	Yes	No
PVP2020-21605	Elastic-Plastic Analogy for Examination of Softening Response for Strip Yield Models	Yes	Yes
T-8: New and Emerging Met	hods of Analysis and Applications	Paper	Vid
PVP2020-21170	Application of Nonlinear Parameters Predictive Model Based on Ls-Svm in Pipeline of Online Mixed Transportation	<u>Yes</u>	Yes
PVP2020-21595	Progressive Fatigue Life Prediction of Composite Materials Based on Residual Material Property Degradation Model	<u>Yes</u>	Yes
PVP2020-21599	Damage Detection Using Multiphysics Analysis of Guided Wave Propagation	<u>Yes</u>	Yes
	Influence of Elastic-Plastic Bending on the Relationship Between Applied Load and Maximum Bending Stress for Straight and Curved Bars	V	
PVP2020-21603		<u>Yes</u>	Yes
	True	<u>Yes</u>	<u>Yes</u>
gn & Analysis			
gn & Analysis DA-1: D&A of PV, HX, and co	mponents	Paper	Vid
gn & Analysis DA-1: D&A of PV, HX, and con PVP2020-21112	mponents Buckling of Cylinders Due to External Pressure – Experimental Work Compared With Finite Element Analysis	Paper <u>Yes</u>	Vid No
gn & Analysis DA-1: D&A of PV, HX, and cor PVP2020-21112 PVP2020-21118	mponents Buckling of Cylinders Due to External Pressure – Experimental Work Compared With Finite Element Analysis Structural Dynamic Modification of Cylindrical Shells With Variable Thickness	Paper Yes Yes	Vid No Yes
gn & Analysis DA-1: D&A of PV, HX, and cor PVP2020-21112 PVP2020-21118 PVP2020-21290	mponents Buckling of Cylinders Due to External Pressure – Experimental Work Compared With Finite Element Analysis Structural Dynamic Modification of Cylindrical Shells With Variable Thickness Failure Mode Effects Analysis for Sec. Iii Div. 5 Class a Service of a Printed Circuit Heat Exchanger	Paper Yes Yes Yes Yes	Vid No Yes No
gn & Analysis DA-1: D&A of PV, HX, and col PVP2020-21112 PVP2020-21118 PVP2020-21290 PVP2020-21293	mponents Buckling of Cylinders Due to External Pressure – Experimental Work Compared With Finite Element Analysis Structural Dynamic Modification of Cylindrical Shells With Variable Thickness Failure Mode Effects Analysis for Sec. Iii Div. 5 Class a Service of a Printed Circuit Heat Exchanger Nondestructive Evaluation for Diffusion-Bonded Compact Heat Exchangers	Paper Yes Yes Yes Yes Yes	Vid No Yes No Yes
gn & Analysis DA-1: D&A of PV, HX, and col PVP2020-21112 PVP2020-21118 PVP2020-21290 PVP2020-21293 PVP2020-21299	mponents Buckling of Cylinders Due to External Pressure – Experimental Work Compared With Finite Element Analysis Structural Dynamic Modification of Cylindrical Shells With Variable Thickness Failure Mode Effects Analysis for Sec. Iii Div. 5 Class a Service of a Printed Circuit Heat Exchanger Nondestructive Evaluation for Diffusion-Bonded Compact Heat Exchangers Guidelines for Welding Attachments Onto, and for Pressure Testing Of, Diffusion Bonded Heat Exchangers	Paper Yes Yes Yes Yes Yes Yes Yes	Vid No Yes No Yes
gn & Analysis DA-1: D&A of PV, HX, and col PVP2020-21112 PVP2020-21118 PVP2020-21290 PVP2020-21293 PVP2020-21299 PVP2020-21393	mponents Buckling of Cylinders Due to External Pressure – Experimental Work Compared With Finite Element Analysis Structural Dynamic Modification of Cylindrical Shells With Variable Thickness Failure Mode Effects Analysis for Sec. Iii Div. 5 Class a Service of a Printed Circuit Heat Exchanger Nondestructive Evaluation for Diffusion-Bonded Compact Heat Exchangers Guidelines for Welding Attachments Onto, and for Pressure Testing Of, Diffusion Bonded Heat Exchangers Study on Design Approach for Tall Pressure Vessels With Intermediate Support in Consideration of Bottom Structure Flexibility	Paper Yes Yes Yes Yes Yes Yes Yes Yes Yes	Vid No Yes No Yes Yes
gn & Analysis DA-1: D&A of PV, HX, and col PVP2020-21112 PVP2020-21118 PVP2020-21290 PVP2020-21293 PVP2020-21299 PVP2020-21393 PVP2020-21444	mponents Buckling of Cylinders Due to External Pressure – Experimental Work Compared With Finite Element Analysis Structural Dynamic Modification of Cylindrical Shells With Variable Thickness Failure Mode Effects Analysis for Sec. Iii Div. 5 Class a Service of a Printed Circuit Heat Exchanger Nondestructive Evaluation for Diffusion-Bonded Compact Heat Exchangers Guidelines for Welding Attachments Onto, and for Pressure Testing Of, Diffusion Bonded Heat Exchangers Study on Design Approach for Tall Pressure Vessels With Intermediate Support in Consideration of Bottom Structure Flexibility Numerical Approach to Air Cooler Heat Exchanger's Inlet and Outlet Piping Layout Design With Fluid Distribution	Paper Yes	Vid No Yes No Yes Yes No
gn & Analysis DA-1: D&A of PV, HX, and cor PVP2020-21112 PVP2020-21118 PVP2020-21290 PVP2020-21293 PVP2020-21299 PVP2020-21393 PVP2020-21444 PVP2020-21498	Buckling of Cylinders Due to External Pressure – Experimental Work Compared With Finite Element Analysis Structural Dynamic Modification of Cylindrical Shells With Variable Thickness Failure Mode Effects Analysis for Sec. Iii Div. 5 Class a Service of a Printed Circuit Heat Exchanger Nondestructive Evaluation for Diffusion-Bonded Compact Heat Exchangers Guidelines for Welding Attachments Onto, and for Pressure Testing Of, Diffusion Bonded Heat Exchangers Study on Design Approach for Tall Pressure Vessels With Intermediate Support in Consideration of Bottom Structure Flexibility Numerical Approach to Air Cooler Heat Exchanger's Inlet and Outlet Piping Layout Design With Fluid Distribution An Unified Constitutive Model With Optimized Parameters for Base and Diffusion Bonded Alloy 800h	Paper Yes	Vid No Yes No Yes Yes No Yes
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gn & Analysis DA-1: D&A of PV, HX, and col PVP2020-21112 PVP2020-21118 PVP2020-21290 PVP2020-21299 PVP2020-21393 PVP2020-21393 PVP2020-21444 PVP2020-21498 PVP2020-21499 PVP2020-21500	Buckling of Cylinders Due to External Pressure – Experimental Work Compared With Finite Element Analysis Structural Dynamic Modification of Cylindrical Shells With Variable Thickness Failure Mode Effects Analysis for Sec. Iii Div. 5 Class a Service of a Printed Circuit Heat Exchanger Nondestructive Evaluation for Diffusion-Bonded Compact Heat Exchangers Guidelines for Welding Attachments Onto, and for Pressure Testing Of, Diffusion Bonded Heat Exchangers Study on Design Approach for Tall Pressure Vessels With Intermediate Support in Consideration of Bottom Structure Flexibility Numerical Approach to Air Cooler Heat Exchanger's Inlet and Outlet Piping Layout Design With Fluid Distribution An Unified Constitutive Model With Optimized Parameters for Base and Diffusion Bonded Alloy 800h Allowable Stress Development of Diffusion Bonded Alloy 800h for Section Iii Assessment of Compact Heat Exchanger Design Following Elastic Perfectly Plastic Methodology	Paper Yes	Vid No Yes No Yes Yes No Yes Yes Yes
gn & Analysis DA-1: D&A of PV, HX, and col PVP2020-21112 PVP2020-21118 PVP2020-21290 PVP2020-21293 PVP2020-21299 PVP2020-21393 PVP2020-21444 PVP2020-21498 PVP2020-21500 PVP2020-21500	Buckling of Cylinders Due to External Pressure – Experimental Work Compared With Finite Element Analysis Structural Dynamic Modification of Cylindrical Shells With Variable Thickness Failure Mode Effects Analysis for Sec. Iii Div. 5 Class a Service of a Printed Circuit Heat Exchanger Nondestructive Evaluation for Diffusion-Bonded Compact Heat Exchangers Guidelines for Welding Attachments Onto, and for Pressure Testing Of, Diffusion Bonded Heat Exchangers Study on Design Approach for Tall Pressure Vessels With Intermediate Support in Consideration of Bottom Structure Flexibility Numerical Approach to Air Cooler Heat Exchanger's Inlet and Outlet Piping Layout Design With Fluid Distribution An Unified Constitutive Model With Optimized Parameters for Base and Diffusion Bonded Alloy 800h Allowable Stress Development of Diffusion Bonded Alloy 800h for Section Iii Assessment of Compact Heat Exchanger Design Following Elastic Perfectly Plastic Methodology Mechanical and Microstructural Characterization of Diffusion Bonded 800h	Paper Yes	Vid No Yes No Yes Yes No Yes Yes Yes Yes
gn & Analysis DA-1: D&A of PV, HX, and col PVP2020-21112 PVP2020-21118 PVP2020-21290 PVP2020-21293 PVP2020-21299 PVP2020-21393 PVP2020-21444 PVP2020-21498 PVP2020-21499 PVP2020-21500 PVP2020-21502 PVP2020-21502	Buckling of Cylinders Due to External Pressure – Experimental Work Compared With Finite Element Analysis Structural Dynamic Modification of Cylindrical Shells With Variable Thickness Failure Mode Effects Analysis for Sec. Iii Div. 5 Class a Service of a Printed Circuit Heat Exchanger Nondestructive Evaluation for Diffusion-Bonded Compact Heat Exchangers Guidelines for Welding Attachments Onto, and for Pressure Testing Of, Diffusion Bonded Heat Exchangers Study on Design Approach for Tall Pressure Vessels With Intermediate Support in Consideration of Bottom Structure Flexibility Numerical Approach to Air Cooler Heat Exchanger's Inlet and Outlet Piping Layout Design With Fluid Distribution An Unified Constitutive Model With Optimized Parameters for Base and Diffusion Bonded Alloy 800h Allowable Stress Development of Diffusion Bonded Alloy 800h for Section Iii Assessment of Compact Heat Exchanger Design Following Elastic Perfectly Plastic Methodology Mechanical and Microstructural Characterization of Diffusion Bonded 800h Alternative Design Approach by Finite Element Analysis for High Pressure Equipment	Paper Yes	Vid No Yes No Yes Yes No Yes Yes Yes Yes Yes
gn & Analysis DA-1: D&A of PV, HX, and cor PVP2020-21112 PVP2020-21118 PVP2020-21290 PVP2020-21293 PVP2020-21299 PVP2020-21393 PVP2020-21444 PVP2020-21498 PVP2020-21499 PVP2020-21500 PVP2020-21502 PVP2020-21540 PVP2020-21547	Buckling of Cylinders Due to External Pressure – Experimental Work Compared With Finite Element Analysis Structural Dynamic Modification of Cylindrical Shells With Variable Thickness Failure Mode Effects Analysis for Sec. Iii Div. 5 Class a Service of a Printed Circuit Heat Exchanger Nondestructive Evaluation for Diffusion-Bonded Compact Heat Exchangers Guidelines for Welding Attachments Onto, and for Pressure Testing Of, Diffusion Bonded Heat Exchangers Study on Design Approach for Tall Pressure Vessels With Intermediate Support in Consideration of Bottom Structure Flexibility Numerical Approach to Air Cooler Heat Exchanger's Inlet and Outlet Piping Layout Design With Fluid Distribution An Unified Constitutive Model With Optimized Parameters for Base and Diffusion Bonded Alloy 800h Allowable Stress Development of Diffusion Bonded Alloy 800h for Section Iii Assessment of Compact Heat Exchanger Design Following Elastic Perfectly Plastic Methodology Mechanical and Microstructural Characterization of Diffusion Bonded 800h Alternative Design Approach by Finite Element Analysis for High Pressure Equipment Assessment of Compact Heat Exchanger Design According to the Simplified Asme Analysis Methodologies	Paper Yes	Vid No Yes Yes No Yes Yes Yes Yes Yes Yes Yes
gn & Analysis DA-1: D&A of PV, HX, and col PVP2020-21112 PVP2020-21118 PVP2020-21290 PVP2020-21293 PVP2020-21299 PVP2020-21393 PVP2020-21444 PVP2020-21498 PVP2020-21499 PVP2020-21500 PVP2020-21502 PVP2020-21547 PVP2020-21594	Buckling of Cylinders Due to External Pressure – Experimental Work Compared With Finite Element Analysis Structural Dynamic Modification of Cylindrical Shells With Variable Thickness Failure Mode Effects Analysis for Sec. Iii Div. 5 Class a Service of a Printed Circuit Heat Exchanger Nondestructive Evaluation for Diffusion-Bonded Compact Heat Exchangers Guidelines for Welding Attachments Onto, and for Pressure Testing Of, Diffusion Bonded Heat Exchangers Study on Design Approach for Tall Pressure Vessels With Intermediate Support in Consideration of Bottom Structure Flexibility Numerical Approach to Air Cooler Heat Exchanger's Inlet and Outlet Piping Layout Design With Fluid Distribution An Unified Constitutive Model With Optimized Parameters for Base and Diffusion Bonded Alloy 800h Allowable Stress Development of Diffusion Bonded Alloy 800h for Section Iii Assessment of Compact Heat Exchanger Design Following Elastic Perfectly Plastic Methodology Mechanical and Microstructural Characterization of Diffusion Bonded 800h Alternative Design Approach by Finite Element Analysis for High Pressure Equipment Assessment of Compact Heat Exchanger Design According to the Simplified Asme Analysis Methodologies Determination of Transition From Thin Shell to Thick Shell Theory for Torispherical Heads With Head Dish Radius to Thickness Ratios Under 20	Paper Yes	Vid No Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
gn & Analysis DA-1: D&A of PV, HX, and cor PVP2020-21112 PVP2020-21118 PVP2020-21290 PVP2020-21293 PVP2020-21299 PVP2020-21393 PVP2020-21393 PVP2020-21444 PVP2020-21498 PVP2020-21500 PVP2020-21500 PVP2020-21502 PVP2020-21504 PVP2020-21594 PVP2020-21594 PVP2020-21594	Buckling of Cylinders Due to External Pressure – Experimental Work Compared With Finite Element Analysis Structural Dynamic Modification of Cylindrical Shells With Variable Thickness Failure Mode Effects Analysis for Sec. Iii Div. 5 Class a Service of a Printed Circuit Heat Exchanger Nondestructive Evaluation for Diffusion-Bonded Compact Heat Exchangers Guidelines for Welding Attachments Onto, and for Pressure Testing Of, Diffusion Bonded Heat Exchangers Study on Design Approach for Tall Pressure Vessels With Intermediate Support in Consideration of Bottom Structure Flexibility Numerical Approach to Air Cooler Heat Exchanger's Inlet and Outlet Piping Layout Design With Fluid Distribution An Unified Constitutive Model With Optimized Parameters for Base and Diffusion Bonded Alloy 800h Allowable Stress Development of Diffusion Bonded Alloy 800h for Section Iii Assessment of Compact Heat Exchanger Design Following Elastic Perfectly Plastic Methodology Mechanical and Microstructural Characterization of Diffusion Bonded 800h Alternative Design Approach by Finite Element Analysis for High Pressure Equipment Assessment of Compact Heat Exchanger Design According to the Simplified Asme Analysis Methodologies Determination of Transition From Thin Shell to Thick Shell Theory for Torispherical Heads With Head Dish Radius to Thickness Ratios Under 20 General Criteria and Evaluations for the Selection of Asme Section Viii, Division 1 or 2 for New Construction Pressure Vessels	Paper Yes	Vid No Yes No Yes No Yes Yes Yes Yes Yes Yes Yes
gn & Analysis DA-1: D&A of PV, HX, and cor PVP2020-21112 PVP2020-21118 PVP2020-21290 PVP2020-21293 PVP2020-21393 PVP2020-21393 PVP2020-21444 PVP2020-21498 PVP2020-21500 PVP2020-21502 PVP2020-21502 PVP2020-21540 PVP2020-21547 PVP2020-21594 PVP2020-21594 PVP2020-21602 PVP2020-21602 PVP2020-21601	Buckling of Cylinders Due to External Pressure – Experimental Work Compared With Finite Element Analysis Structural Dynamic Modification of Cylindrical Shells With Variable Thickness Failure Mode Effects Analysis for Sec. Iii Div. 5 Class a Service of a Printed Circuit Heat Exchanger Nondestructive Evaluation for Diffusion-Bonded Compact Heat Exchangers Guidelines for Welding Attachments Onto, and for Pressure Testing Of, Diffusion Bonded Heat Exchangers Study on Design Approach for Tall Pressure Vessels With Intermediate Support in Consideration of Bottom Structure Flexibility Numerical Approach to Air Cooler Heat Exchanger's Inlet and Outlet Piping Layout Design With Fluid Distribution An Unified Constitutive Model With Optimized Parameters for Base and Diffusion Bonded Alloy 800h Allowable Stress Development of Diffusion Bonded Alloy 800h for Section Iii Assessment of Compact Heat Exchanger Design Following Elastic Perfectly Plastic Methodology Mechanical and Microstructural Characterization of Diffusion Bonded 800h Alternative Design Approach by Finite Element Analysis for High Pressure Equipment Assessment of Compact Heat Exchanger Design According to the Simplified Asme Analysis Methodologies Determination of Transition From Thin Shell to Thick Shell Theory for Torispherical Heads With Head Dish Radius to Thickness Ratios Under 20 General Criteria and Evaluations for the Selection of Asme Section Viii, Division 1 or 2 for New Construction Pressure Vessels On the Study of Packed Catalyst Bed Stresses for Outward Radial Flow Reactors	Paper Yes	Vid No Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes
gn & Analysis DA-1: D&A of PV, HX, and col PVP2020-21112 PVP2020-21118 PVP2020-21290 PVP2020-21293 PVP2020-21393 PVP2020-21393 PVP2020-21444 PVP2020-21498 PVP2020-21500 PVP2020-21502 PVP2020-21540 PVP2020-21547 PVP2020-21594 PVP2020-21594 PVP2020-21602 PVP2020-21611 PVP2020-21611	Buckling of Cylinders Due to External Pressure – Experimental Work Compared With Finite Element Analysis Structural Dynamic Modification of Cylindrical Shells With Variable Thickness Failure Mode Effects Analysis for Sec. Iii Div. 5 Class a Service of a Printed Circuit Heat Exchanger Nondestructive Evaluation for Diffusion-Bonded Compact Heat Exchangers Guidelines for Welding Attachments Onto, and for Pressure Testing Of, Diffusion Bonded Heat Exchangers Study on Design Approach for Tall Pressure Vessels With Intermediate Support in Consideration of Bottom Structure Flexibility Numerical Approach to Air Cooler Heat Exchanger's Inlet and Outlet Piping Layout Design With Fluid Distribution An Unified Constitutive Model With Optimized Parameters for Base and Diffusion Bonded Alloy 800h Allowable Stress Development of Diffusion Bonded Alloy 800h for Section Iii Assessment of Compact Heat Exchanger Design Following Elastic Perfectly Plastic Methodology Mechanical and Microstructural Characterization of Diffusion Bonded 800h Alternative Design Approach by Finite Element Analysis for High Pressure Equipment Assessment of Compact Heat Exchanger Design According to the Simplified Asme Analysis Methodologies Determination of Transition From Thin Shell to Thick Shell Theory for Torispherical Heads With Head Dish Radius to Thickness Ratios Under 20 General Criteria and Evaluations for the Selection of Asme Section Viii, Division 1 or 2 for New Construction Pressure Vessels	Paper Yes	Vid No Yes No Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes
gn & Analysis DA-1: D&A of PV, HX, and col PVP2020-21112 PVP2020-21118 PVP2020-21290 PVP2020-21293 PVP2020-21299 PVP2020-21393 PVP2020-21498 PVP2020-21498 PVP2020-21500 PVP2020-21502 PVP2020-21547 PVP2020-21547 PVP2020-21594 PVP2020-21594 PVP2020-21594 PVP2020-21611 PVP2020-21611 PVP2020-21643 DA-10: D&A of bolted joints	Buckling of Cylinders Due to External Pressure – Experimental Work Compared With Finite Element Analysis Structural Dynamic Modification of Cylindrical Shells With Variable Thickness Failure Mode Effects Analysis for Sec. Iii Div. 5 Class a Service of a Printed Circuit Heat Exchanger Nondestructive Evaluation for Diffusion-Bonded Compact Heat Exchangers Guidelines for Welding Attachments Onto, and for Pressure Testing Of, Diffusion Bonded Heat Exchangers Study on Design Approach for Tall Pressure Vessels With Intermediate Support in Consideration of Bottom Structure Flexibility Numerical Approach to Air Cooler Heat Exchanger's Inlet and Outlet Piping Layout Design With Fluid Distribution An Unified Constitutive Model With Optimized Parameters for Base and Diffusion Bonded Alloy 800h Allowable Stress Development of Diffusion Bonded Alloy 800h for Section Iii Assessment of Compact Heat Exchanger Design Following Elastic Perfectly Plastic Methodology Mechanical and Microstructural Characterization of Diffusion Bonded 800h Alternative Design Approach by Finite Element Analysis for High Pressure Equipment Assessment of Compact Heat Exchanger Design According to the Simplified Asme Analysis Methodologies Determination of Transition From Thin Shell to Thick Shell Theory for Torispherical Heads With Head Dish Radius to Thickness Ratios Under 20 General Criteria and Evaluations for the Selection of Asme Section Viii, Division 1 or 2 for New Construction Pressure Vessels On the Study of Packed Catalyst Bed Stresses for Outward Radial Flow Reactors Using Engineering Judgement When Analyzing Finite Element Results	Paper Yes Yes	Yes No Yes Yes No Yes Yes No Yes Yes Yes Yes Yes Vide
gn & Analysis DA-1: D&A of PV, HX, and col PVP2020-21112 PVP2020-21118 PVP2020-21290 PVP2020-21293 PVP2020-21393 PVP2020-21393 PVP2020-21444 PVP2020-21498 PVP2020-21500 PVP2020-21502 PVP2020-21540 PVP2020-21547 PVP2020-21594 PVP2020-21594 PVP2020-21602 PVP2020-21611 PVP2020-21611	Buckling of Cylinders Due to External Pressure – Experimental Work Compared With Finite Element Analysis Structural Dynamic Modification of Cylindrical Shells With Variable Thickness Failure Mode Effects Analysis for Sec. Iii Div. 5 Class a Service of a Printed Circuit Heat Exchanger Nondestructive Evaluation for Diffusion-Bonded Compact Heat Exchangers Guidelines for Welding Attachments Onto, and for Pressure Testing Of, Diffusion Bonded Heat Exchangers Study on Design Approach for Tall Pressure Vessels With Intermediate Support in Consideration of Bottom Structure Flexibility Numerical Approach to Air Cooler Heat Exchanger's Inlet and Outlet Piping Layout Design With Fluid Distribution An Unified Constitutive Model With Optimized Parameters for Base and Diffusion Bonded Alloy 800h Allowable Stress Development of Diffusion Bonded Alloy 800h for Section Iii Assessment of Compact Heat Exchanger Design Following Elastic Perfectly Plastic Methodology Mechanical and Microstructural Characterization of Diffusion Bonded 800h Alternative Design Approach by Finite Element Analysis for High Pressure Equipment Assessment of Compact Heat Exchanger Design According to the Simplified Asme Analysis Methodologies Determination of Transition From Thin Shell to Thick Shell Theory for Torispherical Heads With Head Dish Radius to Thickness Ratios Under 20 General Criteria and Evaluations for the Selection of Asme Section Viii, Division 1 or 2 for New Construction Pressure Vessels On the Study of Packed Catalyst Bed Stresses for Outward Radial Flow Reactors	Paper Yes	Vide No Yes No Yes Yes No Yes Yes Yes No Yes Yes Yes No Yes Yes Yes

DA-11: CFD in Design and A		Paper	Video
PVP2020-21183	Dynamic Analysis of Liquid Sloshing for Shipboard Pressure Vessel	<u>Yes</u>	No
PVP2020-21685	Benchmark Study of Cfd-Based Prediction Accuracy of the Models Evaluating Particle and Droplet Induced Erosion for Engineering Applications	<u>Yes</u>	No
A-12: Fracture		Paper	Video
PVP2020-21003	Validation of the New Gamma Exponent Model for Axial Crack Assessment in Oil and Gas Pipelines	Yes	Yes
PVP2020-21081	Fracture Mechniacl Assesement for Pressurized Water Rpv Nozzles Subjected to Pressure and Thermal Loading	Yes	No
PVP2020-21090	Advanced Fracture Analysis of Tube Plates - Selection Method of Minimum Margin (Sm2m)	Yes	No
PVP2020-21278	Prediction of Tensile Strain Capacity of Misaligned Welded Plates Using a Damage Model Depended on the Stress Triaxiality and the Lode Stress Parameter	Yes	Yes
PVP2020-21583	Effect of Cladding-Induced Stresses on Crack Driving Force in the Fracture Analysis of Pressure Vessels	Yes	No
PVP2020-21680	Coupling of Neutron Transport and Probabilistic Fracture Mechanics Codes for Analysis of Embrittled Reactor Pressure Vessels	Yes	No
PVP2020-21715	Microscopic Deformation of Thin Sheet of Polycrystalline Pure Titanium Under Tension	Yes	No
PVP2020-21853	Ductile Tearing and Plastic Collapse Competition	Yes	No
A-14: Evaluation and Coun	ter Measure for Beyond Design Basis Event	Paper	Video
PVP2020-21072	Application of Fracture Control to Mitigate Failure Consequence Under Bdbe	Yes	Yes
PVP2020-21140	Investigation on Failure Behavior of Two-Elbow Piping System Models Made of the Simulation Material Under Excessive Seismic Loads	Yes	Yes
PVP2020-21375	Frequency Dependency of Beam Collapse Due to Vibration Loads	Yes	Yes
PVP2020-21397	Proposal of Simulation Materials Test Technique and Their Constitutive Equations for Structural Tests and Analyses Simulating Severe Accident Conditions	Yes	Yes
	posium on Code Drum Life Cycle Management	Paper	Video
PVP2020-21121	Life Assessment of a Coke Drum by Using the Thermal-Mechanical Fatigue Properties and Laser Scanning Approach	Yes	No
PVP2020-21485	Numerical Simulation of Thermal-Mechanical Stress Field of Coke Drum Considering Deformation	Yes	No
PVP2020-21574	Isothermal Low-Cycle Fatigue Evaluation of External Weld Repairs Using Alloy 182 Filler Metal With Backing Plate Design	Yes	Yes
PVP2020-21661	Assessment of the Bulges on the Cone Section of a Coke Drum	Yes	No
A-17: Composite Materials		Paper	Video
PVP2020-21015	Probabilistic Determination of Burst Pressure in a Filament Wound Composite Pressure Vessel	Yes	Yes
PVP2020-21103	Strength Analysis and Influence Factors Research of Carbon-Fiber Wound Composite Gas Cylinder With Aluminum Liner	Yes	Yes
PVP2020-21177	A Novel Assessment Method for Wrinkle Defects in Composites	Yes	Yes
PVP2020-21777	Structural Design and Stress Analysis of a Fully-Wrapped Composite Cng Gas Cylinder With Nominal Working Pressure of 30 Mpa	Yes	No
PVP2020-21529	Development of a Novel Technique Using Finite Element Method to Simulate Creep in Thermoplastic Fiber Reinforced Polymer Composite Pipe Structures	Yes	No
PVP2020-21793	Design and Development of Acoustic Metamaterials for Cabin Noise Reduction and Pressure Sensing in Propfan Aircrafts	Yes	Yes
	ns in the Design and Analysis of Supports, Restraints, and Welded Attachments	Paper	Video
PVP2020-21297	A Review of Temperature Reduction Methods in Codes and Standards for Pipe Supports	Yes	Yes
PVP2020-21301	Effect of Piping System Vibration (Fiv, Aiv, Piv) on Pipe Support Loads	Yes	No
PVP2020-21517	The Effect of Lateral Acceleration on Critical Buckling Capacities of Snubber Assemblies	<u>Yes</u>	Yes
	· ·		Video
A-2: D&A of piping and con PVP2020-21179		Paper	
	Improving Lng Plant Piping (Or How Lng Plants Are Improving Piping)	<u>Yes</u>	<u>Yes</u> No
PVP2020-21193	Evaluating the Performance of Engineered Enclosures for Piping Repairs Analysis of the Influence of Several Design Parameters on the Seal Performance of Reactor Pressure Vessel	<u>Yes</u>	No
PVP2020-21208	,	<u>Yes</u>	
PVP2020-21230	Sealing Criterion and Parameter Analysis of Beam Seal by Orthogonal Array Method	<u>Yes</u>	<u>Yes</u>
PVP2020-21255	Development of Stress Intensification Factors for Collared Type Piping Joints	<u>Yes</u>	<u>Yes</u>
PVP2020-21556	Estimation of Bending Stresses in Piping Systems Subjected to Transient Pressure	<u>Yes</u>	<u>Yes</u>
PVP2020-21738	Estimation of the Load Carrying Capacity of the Bellows Compensator for Gas Pipelines in the Areas of Mining Production	<u>Yes</u>	<u>Yes</u>
PVP2020-21759	Multi-Dimensional Approach to Design and Execution of Modifications and Beyond for Existing Nuclear Power Plants	<u>Yes</u>	No
PVP2020-21847	A Design Tool Methodology to Establish an Optimum Design of 2 Inch and 3 Inch Thermal Tees Used on 14 Inch Pipework Subjected to Hot and Cold Fluid Turbulent N		No
A-3: Fatigue		Paper	Video
PVP2020-21127	Fatigue Life Prediction for Variable Strain at a Mixing Tee by Use of Effective Strain Amplitude	<u>Yes</u>	<u>Yes</u>
PVP2020-21271	Comparative Evaluation of Plastic Design Methods for Fatigue Assessment of a Nuclear Class 1 Piping Nozzle	<u>Yes</u>	No
PVP2020-21434	Fatigue Life Prediction of Notched Specimen Based on Stress Gradient	<u>Yes</u>	No
PVP2020-21536	Fatigue Life Estimation Using Frequency Domain Technique and Probabilistic Linear Cumulative Damage Model	Yes	<u>Yes</u>
PVP2020-21637	Simulation of Fatigue Crack Growth Using Extended Finite Element Method (Xfem)	<u>Yes</u>	<u>Yes</u>
PVP2020-21747	Comparison of Evolution Fatigue With Simplified Elastic Plastic Analysis, Plastic Analysis and a Fracture Mechanics Approach	Yes	No

DA-4: Inelastic, Nonlinear, and	I Limit Load Analysis	Paper	Video
PVP2020-21046	Failure Pressure Prediction of Crack in Corrosion Defects in 2d by Using Xfem	Yes	<u>Yes</u>
PVP2020-21049	The Effect of Thermal Load and Hydrostatic Pressure on Buckling Analysis of Tank Roof	Yes	Yes
PVP2020-21156	The Comparison of the Criteria for Ratcheting in Asme Viii-2 and Methods Given by C-Tdf	Yes	Yes
PVP2020-21171	Elephant Foot Buckling Analysis of Large Unanchored Oil Storage Tanks With Tapered Shells Subjected to Foundation Settlement	Yes	Yes
PVP2020-21182	Comparative Study on the Nonlinear Calculation of Ratcheting Deformation Using Different Constitutive Model	Yes	No
PVP2020-21261	Application of Limit Load Solutions for Engineering Critical Assessment of Embedded Flaws in Evenmatch Pipeline Girth Welds	Yes	Yes
PVP2020-21275	A 2d Geometrically Nonlinear Finite Element Formulation for Analysis of Pipes	Yes	Yes
PVP2020-21326	Buckling Test of Metallic Thin-Walled Cylindrical Shells Under Non-Uniform Axial Compression Loads	Yes	Yes
PVP2020-21335	Inelastic Analysis of Process Vessel Component Under Creep and Primary Load	Yes	No
PVP2020-21379	Shakedown and Limit Analysis of Limited Kinematic Hardening Piping Elbows Under Cyclic Internal Pressures and Bending Moments	Yes	No
PVP2020-21491	Elasto-Visco-Plastic Buckling of Thick Anisotropic Shells: Numerical Buckling Predictions and Experiments	Yes	Yes
PVP2020-21681	Simplified Elastic Plastic Evaluation Incorporating Inelastic and Poisson's Ratio Corrections	Yes	No
DA-7: Thermal Stresses and E		Paper	Video
PVP2020-21022	A Parametric Study on the Creep-Cyclic Plasticity Mechanism of Welded Flange Joints	Yes	No
PVP2020-21022 PVP2020-21048	A Comparative Study on the Sub-Model Method and the Local Model Method in the Tightness Analysis of Tube-to-Tubesheet Joints of Heat Exchanger		
PVP2020-21046 PVP2020-21351		Yes Yes	<u>Yes</u> No
	Environmental Fatigue Analysis Considering Thermal Stratification in Direct Vessel Injection Piping		
DA-8: Fitness for Service Eva		Paper	Video
PVP2020-21085	Significance of Ms and Validation of Reference Stress Solutions for Crack Like Flaws Part1	<u>Yes</u>	<u>Yes</u>
PVP2020-21086	Significance of Ms and Validation of Reference Stress Solutions for Crack Like Flaws Part 2	<u>Yes</u>	<u>Yes</u>
PVP2020-21216	Consideration of Wind Loads in Fitness for Service Assessment of Storage Tanks	<u>Yes</u>	No
PVP2020-21279	Modeling of High Temperature Hydrogen Attack of Steel Using a Continuum Damage Mechanics Approach	<u>Yes</u>	No
PVP2020-21294	Performance-Based Assessment of an Incinerator Stack Using Field Measurements	<u>Yes</u>	<u>Yes</u>
PVP2020-21309	Guidelines for Storage Tank Fitness-for-Service Assessments	<u>Yes</u>	<u>Yes</u>
	Dynamics and Dynamic Response Analysis	Paper	Video
PVP2020-21129	Comparative Study on Seismic Response Analysis Methods of Spherical Tanks	<u>Yes</u>	No
PVP2020-21204	Piping and Equipment Dynamics of High Rate Hvgo Pumps	Yes	No
PVP2020-21296	Fatigue Assessment of Installed Thermowells – Fatigue Stress Evaluation Based on In-Situ Vibration Measurements and Dedicated Models.	Yes	Yes
PVP2020-21458	Vibration of Frp Bypass Piping of Sea Water Intake System in Offshore Platform	Yes	<u>Yes</u>
PVP2020-21689	Case Study on Beam-Mode Flow Induced Vibration Against Random Force Fluctuation Due to Turbulent Flow at Bend	<u>Yes</u>	No
luid-Structure Interaction			
FSI 4: Structures Under Extre		Paper	Video
PVP2020-21443	Thermal Bowing in Pump Suction Piping and Its Improvement Using Modified Warming-Up Process	Yes	No
PVP2020-21514	Diffracted Blast Loads Behind Structures	Yes	No
PVP2020-21633	Bounding Acoustic Load Development for Boiling Water Reactor Shroud and Shroud Supports	Yes	Yes
FSI-1: Thermal-Hydraulics Pho	enomena and Interactions with Vessels, Piping and Components	Paper	Video
PVP2020-21016	Erosion Prediction of Sub-Sea Xmas Tree Based on Cfd	Yes	Yes
PVP2020-21084	Venting Manhole Cover: A Nonlinear Spring-Mass System	Yes	Yes
PVP2020-21257	Throttling Effect and Thermodynamic Characteristics of Supercritical Co2 Flowing Through Shut-Off Valve	Yes	Yes
PVP2020-21522	Research on Sealing Performance of Lng Cryogenic Ball Valve Seat by Fluid-Structure Coupling Method	Yes	No
PVP2020-21535	Efficient and Flexible Finite Element Procedure for Free and Forced Vibration Problems of a Plate Coupled With Fluid	Yes	Yes
PVP2020-21667	A High-Order Spectral Difference Code With Curved Local Mesh Refinement for Predicting Arterial Flow Through Multiple Sequential Stenoses	Yes	Yes
FSI-2: Flow-Induced Vibration		Paper	Video
PVP2020-21139	Multiphase Flow Induced Vibrations at High Pressure	Yes	Yes
0_0 00	Examination of Oscillating Frequencies Generated by Combustion Oscillation Considering Temperature Distribution in a Combustor Tube Fueled by Natural Gas and Hydr		Yes
PVP2020-21231			
PVP2020-21231 PVP2020-21302		Yes	Yes
PVP2020-21302	Research on Nonlinear Support Model Between Tubes and Anti-Vibration Bars in Steam Generators	<u>Yes</u> Yes	<u>Yes</u> Yes
PVP2020-21302 PVP2020-21848	Research on Nonlinear Support Model Between Tubes and Anti-Vibration Bars in Steam Generators Motion Model of Spent Fuel Rack Considering Two-Dimensional Gap Flow	Yes	Yes
PVP2020-21302 PVP2020-21848 FSI-5: FSI Design for Industry	Research on Nonlinear Support Model Between Tubes and Anti-Vibration Bars in Steam Generators Motion Model of Spent Fuel Rack Considering Two-Dimensional Gap Flow	Yes Paper	Yes Video
PVP2020-21302 PVP2020-21848 FSI-5: FSI Design for Industry PVP2020-21069	Research on Nonlinear Support Model Between Tubes and Anti-Vibration Bars in Steam Generators Motion Model of Spent Fuel Rack Considering Two-Dimensional Gap Flow Pump Specific Speed and Four Quadrant Data in Waterhammer Simulation – Taking Another Look	Yes Paper Yes	Yes Video Yes
PVP2020-21302 PVP2020-21848 FSI-5: FSI Design for Industry	Research on Nonlinear Support Model Between Tubes and Anti-Vibration Bars in Steam Generators Motion Model of Spent Fuel Rack Considering Two-Dimensional Gap Flow	Yes Paper	Yes Video

High Pressure Technology			
HT-1: Design, Analysis and Life	e Prediction of High-Pressure Vessels and Equipment	Paper	Video
PVP2020-21076	Investigation on Typical Failure Mode of High-Pressure Hydrogen Cylinders for Vehicles	Yes	No
PVP2020-21119	Proposal of Use of Mises Criteria for Elastic Analysis in Appendix 9 of Asme Section Viii Division 3	Yes	Yes
PVP2020-21401	Serviceability Assessment for Safe Operation of Ldpe Pressure Vessels	Yes	No
HT-2: Structures under Extrem	e Loading Conditions (Joint Topic)	Paper	Video
PVP2020-21647	Design and Testing of an Explosively Loaded Pressure Vessel System for Proton Radiography	Yes	No
PVP2020-21652	Hydrodynamic and Structural Simulations and Measurements in an Explosively Loaded High-Pressure Vessel	Yes	Yes
PVP2020-21665	Stored Elastic Strain Energy of Pressure Vessels and Their Consequential Effect on High Speed Projectiles	Yes	Yes
PVP2020-21767	Study on Key Parameters of Two-Stage Pressure Reducing Valve for 70mpa Hydrogen Supply System	Yes	Yes
HT-3: Fitness for Service and N	IDE of High-Pressure Vessels and Piping	Paper	Video
PVP2020-21318	Extended Finite Element Investigation of Burst Pressure of Pipeline With Combined Dent and Crack Defects	Yes	No
HT-4: Design and Analysis of H	ligh-Pressure Equipment for Industry	Paper	Video
PVP2020-21115	A Study on Residual Stresses on Autofrettaged Ldpe Tubing Including the Bauschinger Effect and Strain Aging	Yes	No
PVP2020-21292	Design and Analysis of a High Pressure Laboratory Vessel for Testing Well Cement	Yes	Yes
PVP2020-21598	Influence of Thermal and Mechanic Overload From Ldpe-Decomposition on Reactor Tube Properties	Yes	No
PVP2020-21723	Continued Study on the Effect of Mean Stress on Ground Storage Vessels for Hydrogen Fueling	Yes	No
HT-5: Materials for the High-Pro	essure Industry	Paper	Video
PVP2020-21478	Hydrogen Embrittlement Evaluation of Different Heats of Aisi 8630 Steel in Subsea Applications	Yes	No
HT-6: Design and Analysis of H	ligh-Pressure Equipment for Oil and Gas Exploration and Production	Paper	Video
PVP2020-21372	Subsea Flanges, Comparison Between Coventional Api 6a Type 6bx Flange and Spo Compact Flange Designs	Yes	Yes
PVP2020-21534	Stresses Evaluation and Fracture Mechanics Integrity Assessments of Stud Bolts Subjected to Cathodic Protection	Yes	No
PVP2020-21784	Asme Sec Viii Div. 3 and Api Tr 17tr8 Verification and Validation Methodology for Subsea Connectors	Yes	Yes
Materials & Fabrication			
MF-1: Application of fracture m	echanics in failure assessment	Paper	Video
PVP2020-21097	A Wide-Range Solution of Cmod Compliance for Clamped Sent Specimens	Yes	No
PVP2020-21097 PVP2020-21124	A Wide-Range Solution of Cmod Compliance for Clamped Sent Specimens Improved Method for Fracture Toughness Testing Using Compliance Method for High Toughness Materials	Yes Yes	No Yes
			Yes
PVP2020-21124	Improved Method for Fracture Toughness Testing Using Compliance Method for High Toughness Materials	Yes Yes	Yes Yes
PVP2020-21124 PVP2020-21142	Improved Method for Fracture Toughness Testing Using Compliance Method for High Toughness Materials Fracture Mechanics Assessment of Reactor Pressure Vessel Irradiated Structural Steel for Short Column Type Supports and Neutron Shield Tank	Yes	Yes
PVP2020-21124 PVP2020-21142 PVP2020-21169	Improved Method for Fracture Toughness Testing Using Compliance Method for High Toughness Materials Fracture Mechanics Assessment of Reactor Pressure Vessel Irradiated Structural Steel for Short Column Type Supports and Neutron Shield Tank The Effects of Material Properties on Crack Tip Constraint and Fracture Toughness for Commonly Used Pipelines Steels	Yes Yes Yes	Yes Yes Yes
PVP2020-21124 PVP2020-21142 PVP2020-21169 PVP2020-21232	Improved Method for Fracture Toughness Testing Using Compliance Method for High Toughness Materials Fracture Mechanics Assessment of Reactor Pressure Vessel Irradiated Structural Steel for Short Column Type Supports and Neutron Shield Tank The Effects of Material Properties on Crack Tip Constraint and Fracture Toughness for Commonly Used Pipelines Steels A New Proposal to Obtain the Ctod Fracture Parameter for Offshore Pipeline Steels by Using Only One Clip Gage	Yes Yes Yes Yes	Yes Yes Yes Yes
PVP2020-21124 PVP2020-21142 PVP2020-21169 PVP2020-21232 PVP2020-21239	Improved Method for Fracture Toughness Testing Using Compliance Method for High Toughness Materials Fracture Mechanics Assessment of Reactor Pressure Vessel Irradiated Structural Steel for Short Column Type Supports and Neutron Shield Tank The Effects of Material Properties on Crack Tip Constraint and Fracture Toughness for Commonly Used Pipelines Steels A New Proposal to Obtain the Ctod Fracture Parameter for Offshore Pipeline Steels by Using Only One Clip Gage Brittle Fracture of Stainless Steel Dissimilar Metal Welds in the Brittle-to-Ductile Transition Range	Yes Yes Yes Yes Yes	Yes Yes Yes Yes No
PVP2020-21124 PVP2020-21142 PVP2020-21169 PVP2020-21232 PVP2020-21239 PVP2020-21265	Improved Method for Fracture Toughness Testing Using Compliance Method for High Toughness Materials Fracture Mechanics Assessment of Reactor Pressure Vessel Irradiated Structural Steel for Short Column Type Supports and Neutron Shield Tank The Effects of Material Properties on Crack Tip Constraint and Fracture Toughness for Commonly Used Pipelines Steels A New Proposal to Obtain the Ctod Fracture Parameter for Offshore Pipeline Steels by Using Only One Clip Gage Brittle Fracture of Stainless Steel Dissimilar Metal Welds in the Brittle-to-Ductile Transition Range Failure Assessment of Spring-Operated Pressure Relief Valve Proof Test Data for Extending Time-in-Service	Yes	Yes Yes Yes Yes No
PVP2020-21124 PVP2020-21142 PVP2020-21169 PVP2020-21232 PVP2020-21239 PVP2020-21265 PVP2020-21492	Improved Method for Fracture Toughness Testing Using Compliance Method for High Toughness Materials Fracture Mechanics Assessment of Reactor Pressure Vessel Irradiated Structural Steel for Short Column Type Supports and Neutron Shield Tank The Effects of Material Properties on Crack Tip Constraint and Fracture Toughness for Commonly Used Pipelines Steels A New Proposal to Obtain the Ctod Fracture Parameter for Offshore Pipeline Steels by Using Only One Clip Gage Brittle Fracture of Stainless Steel Dissimilar Metal Welds in the Brittle-to-Ductile Transition Range Failure Assessment of Spring-Operated Pressure Relief Valve Proof Test Data for Extending Time-in-Service Implementation of Ductile Damage Models to Determine Constraint Parameters for Ductile Materials-Phase 1 (Generic Constraint Conditions)	Yes	Yes Yes Yes Yes No No Yes No
PVP2020-21124 PVP2020-21142 PVP2020-21169 PVP2020-21232 PVP2020-21239 PVP2020-21265 PVP2020-21492 PVP2020-21579	Improved Method for Fracture Toughness Testing Using Compliance Method for High Toughness Materials Fracture Mechanics Assessment of Reactor Pressure Vessel Irradiated Structural Steel for Short Column Type Supports and Neutron Shield Tank The Effects of Material Properties on Crack Tip Constraint and Fracture Toughness for Commonly Used Pipelines Steels A New Proposal to Obtain the Ctod Fracture Parameter for Offshore Pipeline Steels by Using Only One Clip Gage Brittle Fracture of Stainless Steel Dissimilar Metal Welds in the Brittle-to-Ductile Transition Range Failure Assessment of Spring-Operated Pressure Relief Valve Proof Test Data for Extending Time-in-Service Implementation of Ductile Damage Models to Determine Constraint Parameters for Ductile Materials-Phase 1 (Generic Constraint Conditions) Flaw Design for Dc-Ep Monitoring of Crack Initiation and Growth During Full-Size Pipe Experiments	Yes	Yes Yes Yes Yes No No Yes
PVP2020-21124 PVP2020-21142 PVP2020-21169 PVP2020-21232 PVP2020-21239 PVP2020-21265 PVP2020-21492 PVP2020-21579 PVP2020-21651	Improved Method for Fracture Toughness Testing Using Compliance Method for High Toughness Materials Fracture Mechanics Assessment of Reactor Pressure Vessel Irradiated Structural Steel for Short Column Type Supports and Neutron Shield Tank The Effects of Material Properties on Crack Tip Constraint and Fracture Toughness for Commonly Used Pipelines Steels A New Proposal to Obtain the Ctod Fracture Parameter for Offshore Pipeline Steels by Using Only One Clip Gage Brittle Fracture of Stainless Steel Dissimilar Metal Welds in the Brittle-to-Ductile Transition Range Failure Assessment of Spring-Operated Pressure Relief Valve Proof Test Data for Extending Time-in-Service Implementation of Ductile Damage Models to Determine Constraint Parameters for Ductile Materials-Phase 1 (Generic Constraint Conditions) Flaw Design for Dc-Ep Monitoring of Crack Initiation and Growth During Full-Size Pipe Experiments Investigation of Temperature Dependence of Weibull Parameters of the Beremin Model in Ductile-Brittle Transition Temperature Region	Yes	Yes Yes Yes Yes No No Yes No Yes Yes Yes
PVP2020-21124 PVP2020-21142 PVP2020-21169 PVP2020-21232 PVP2020-21239 PVP2020-21265 PVP2020-21492 PVP2020-21579 PVP2020-21651 PVP2020-21664	Improved Method for Fracture Toughness Testing Using Compliance Method for High Toughness Materials Fracture Mechanics Assessment of Reactor Pressure Vessel Irradiated Structural Steel for Short Column Type Supports and Neutron Shield Tank The Effects of Material Properties on Crack Tip Constraint and Fracture Toughness for Commonly Used Pipelines Steels A New Proposal to Obtain the Ctod Fracture Parameter for Offshore Pipeline Steels by Using Only One Clip Gage Brittle Fracture of Stainless Steel Dissimilar Metal Welds in the Brittle-to-Ductile Transition Range Failure Assessment of Spring-Operated Pressure Relief Valve Proof Test Data for Extending Time-in-Service Implementation of Ductile Damage Models to Determine Constraint Parameters for Ductile Materials-Phase 1 (Generic Constraint Conditions) Flaw Design for Dc-Ep Monitoring of Crack Initiation and Growth During Full-Size Pipe Experiments Investigation of Temperature Dependence of Weibull Parameters of the Beremin Model in Ductile-Brittle Transition Temperature Region A Parametric Study of Variable Crack Initiation Criterion in Xfem on Pipeline Steel	Yes	Yes Yes Yes No No Yes No Yes Yes Yes Yes Yes Yes
PVP2020-21124 PVP2020-21142 PVP2020-21169 PVP2020-21232 PVP2020-21239 PVP2020-21265 PVP2020-21492 PVP2020-21579 PVP2020-21651 PVP2020-21664 PVP2020-21736	Improved Method for Fracture Toughness Testing Using Compliance Method for High Toughness Materials Fracture Mechanics Assessment of Reactor Pressure Vessel Irradiated Structural Steel for Short Column Type Supports and Neutron Shield Tank The Effects of Material Properties on Crack Tip Constraint and Fracture Toughness for Commonly Used Pipelines Steels A New Proposal to Obtain the Ctod Fracture Parameter for Offshore Pipeline Steels by Using Only One Clip Gage Brittle Fracture of Stainless Steel Dissimilar Metal Welds in the Brittle-to-Ductile Transition Range Failure Assessment of Spring-Operated Pressure Relief Valve Proof Test Data for Extending Time-in-Service Implementation of Ductile Damage Models to Determine Constraint Parameters for Ductile Materials-Phase 1 (Generic Constraint Conditions) Flaw Design for Dc-Ep Monitoring of Crack Initiation and Growth During Full-Size Pipe Experiments Investigation of Temperature Dependence of Weibull Parameters of the Beremin Model in Ductile-Brittle Transition Temperature Region A Parametric Study of Variable Crack Initiation Criterion in Xfem on Pipeline Steel Impact of the Outer Surface Air Cooling and Wps Approaches on the Brittle Fracture Margin of Wwer Rpv	Yes	Yes Yes Yes No No Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes
PVP2020-21124 PVP2020-21142 PVP2020-21169 PVP2020-21232 PVP2020-21239 PVP2020-21265 PVP2020-21492 PVP2020-21579 PVP2020-21661 PVP2020-21664 PVP2020-21736 PVP2020-21737	Improved Method for Fracture Toughness Testing Using Compliance Method for High Toughness Materials Fracture Mechanics Assessment of Reactor Pressure Vessel Irradiated Structural Steel for Short Column Type Supports and Neutron Shield Tank The Effects of Material Properties on Crack Tip Constraint and Fracture Toughness for Commonly Used Pipelines Steels A New Proposal to Obtain the Ctod Fracture Parameter for Offshore Pipeline Steels by Using Only One Clip Gage Brittle Fracture of Stainless Steel Dissimilar Metal Welds in the Brittle-to-Ductile Transition Range Failure Assessment of Spring-Operated Pressure Relief Valve Proof Test Data for Extending Time-in-Service Implementation of Ductile Damage Models to Determine Constraint Parameters for Ductile Materials-Phase 1 (Generic Constraint Conditions) Flaw Design for Dc-Ep Monitoring of Crack Initiation and Growth During Full-Size Pipe Experiments Investigation of Temperature Dependence of Weibull Parameters of the Beremin Model in Ductile-Brittle Transition Temperature Region A Parametric Study of Variable Crack Initiation Criterion in Xfem on Pipeline Steel Impact of the Outer Surface Air Cooling and Wps Approaches on the Brittle Fracture Margin of Wwer Rpv Simulations of Crack Extensions in Arc-Shaped Specimens of Uncharged and Tritium-Charged-and-Decayed Austenitic Stainless Steels Using Cohesive Zone Modeling	Yes	Yes Yes Yes No No Yes No Yes
PVP2020-21124 PVP2020-21142 PVP2020-21169 PVP2020-21232 PVP2020-21239 PVP2020-21265 PVP2020-21492 PVP2020-21579 PVP2020-21651 PVP2020-21664 PVP2020-21736 PVP2020-21737 PVP2020-21748	Improved Method for Fracture Toughness Testing Using Compliance Method for High Toughness Materials Fracture Mechanics Assessment of Reactor Pressure Vessel Irradiated Structural Steel for Short Column Type Supports and Neutron Shield Tank The Effects of Material Properties on Crack Tip Constraint and Fracture Toughness for Commonly Used Pipelines Steels A New Proposal to Obtain the Ctod Fracture Parameter for Offshore Pipeline Steels by Using Only One Clip Gage Brittle Fracture of Stainless Steel Dissimilar Metal Welds in the Brittle-to-Ductile Transition Range Failure Assessment of Spring-Operated Pressure Relief Valve Proof Test Data for Extending Time-in-Service Implementation of Ductile Damage Models to Determine Constraint Parameters for Ductile Materials-Phase 1 (Generic Constraint Conditions) Flaw Design for Dc-Ep Monitoring of Crack Initiation and Growth During Full-Size Pipe Experiments Investigation of Temperature Dependence of Weibull Parameters of the Beremin Model in Ductile-Brittle Transition Temperature Region A Parametric Study of Variable Crack Initiation Criterion in Xfem on Pipeline Steel Impact of the Outer Surface Air Cooling and Wps Approaches on the Brittle Fracture Margin of Wwer Rpv Simulations of Crack Extensions in Arc-Shaped Specimens of Uncharged and Tritium-Charged-and-Decayed Austenitic Stainless Steels Using Cohesive Zone Modeling Regression Analysis of Transition Temperature Shift Database for the Core Region Beltline Welds of Wwer-1000 Rpvs	Yes	Yes Yes Yes No No Yes No Yes
PVP2020-21124 PVP2020-21142 PVP2020-21169 PVP2020-21232 PVP2020-21239 PVP2020-21265 PVP2020-21492 PVP2020-21579 PVP2020-21651 PVP2020-21664 PVP2020-21736 PVP2020-21737 PVP2020-21748 PVP2020-21788	Improved Method for Fracture Toughness Testing Using Compliance Method for High Toughness Materials Fracture Mechanics Assessment of Reactor Pressure Vessel Irradiated Structural Steel for Short Column Type Supports and Neutron Shield Tank The Effects of Material Properties on Crack Tip Constraint and Fracture Toughness for Commonly Used Pipelines Steels A New Proposal to Obtain the Ctod Fracture Parameter for Offshore Pipeline Steels by Using Only One Clip Gage Brittle Fracture of Stainless Steel Dissimilar Metal Welds in the Brittle-to-Ductile Transition Range Failure Assessment of Spring-Operated Pressure Relief Valve Proof Test Data for Extending Time-in-Service Implementation of Ductile Damage Models to Determine Constraint Parameters for Ductile Materials-Phase 1 (Generic Constraint Conditions) Flaw Design for Dc-Ep Monitoring of Crack Initiation and Growth During Full-Size Pipe Experiments Investigation of Temperature Dependence of Weibull Parameters of the Beremin Model in Ductile-Brittle Transition Temperature Region A Parametric Study of Variable Crack Initiation Criterion in Xfem on Pipeline Steel Impact of the Outer Surface Air Cooling and Wps Approaches on the Brittle Fracture Margin of Wwer Rpv Simulations of Crack Extensions in Arc-Shaped Specimens of Uncharged and Tritium-Charged-and-Decayed Austenitic Stainless Steels Using Cohesive Zone Modeling Regression Analysis of Transition Temperature Shift Database for the Core Region Beltline Welds of Wwer-1000 Rpvs Sustainable Manufacturing and Optimization of Squeeze Stir Cast Rods Using Recycled Aluminum and Alumina Reinforcements	Yes	Yes Yes Yes No No Yes No Yes
PVP2020-21124 PVP2020-21142 PVP2020-21169 PVP2020-21232 PVP2020-21239 PVP2020-21265 PVP2020-21492 PVP2020-21579 PVP2020-21651 PVP2020-21664 PVP2020-21737 PVP2020-21737 PVP2020-21748 PVP2020-21788 PVP2020-21792	Improved Method for Fracture Toughness Testing Using Compliance Method for High Toughness Materials Fracture Mechanics Assessment of Reactor Pressure Vessel Irradiated Structural Steel for Short Column Type Supports and Neutron Shield Tank The Effects of Material Properties on Crack Tip Constraint and Fracture Toughness for Commonly Used Pipelines Steels A New Proposal to Obtain the Ctod Fracture Parameter for Offshore Pipeline Steels by Using Only One Clip Gage Brittle Fracture of Stainless Steel Dissimilar Metal Welds in the Brittle-to-Ductile Transition Range Failure Assessment of Spring-Operated Pressure Relief Valve Proof Test Data for Extending Time-in-Service Implementation of Ductile Damage Models to Determine Constraint Parameters for Ductile Materials-Phase 1 (Generic Constraint Conditions) Flaw Design for Dc-Ep Monitoring of Crack Initiation and Growth During Full-Size Pipe Experiments Investigation of Temperature Dependence of Weibull Parameters of the Beremin Model in Ductile-Brittle Transition Temperature Region A Parametric Study of Variable Crack Initiation Criterion in Xfem on Pipeline Steel Impact of the Outer Surface Air Cooling and Wps Approaches on the Brittle Fracture Margin of Wwer Rpv Simulations of Crack Extensions in Arc-Shaped Specimens of Uncharged and Tritium-Charged-and-Decayed Austenitic Stainless Steels Using Cohesive Zone Modeling Regression Analysis of Transition Temperature Shift Database for the Core Region Beltline Welds of Wwer-1000 Rpvs Sustainable Manufacturing and Optimization of Squeeze Stir Cast Rods Using Recycled Aluminum and Alumina Reinforcements Numerical Analysis of Electrical Roller Expanded Tube-to-Tubesheet Joints	Yes	Yes Yes Yes No No Yes No Yes
PVP2020-21124 PVP2020-21142 PVP2020-21169 PVP2020-21232 PVP2020-21239 PVP2020-21265 PVP2020-21492 PVP2020-21579 PVP2020-21651 PVP2020-21664 PVP2020-21736 PVP2020-21737 PVP2020-21748 PVP2020-21788 PVP2020-21792 PVP2020-21792	Improved Method for Fracture Toughness Testing Using Compliance Method for High Toughness Materials Fracture Mechanics Assessment of Reactor Pressure Vessel Irradiated Structural Steel for Short Column Type Supports and Neutron Shield Tank The Effects of Material Properties on Crack Tip Constraint and Fracture Toughness for Commonly Used Pipelines Steels A New Proposal to Obtain the Ctod Fracture Parameter for Offshore Pipeline Steels by Using Only One Clip Gage Brittle Fracture of Stainless Steel Dissimilar Metal Welds in the Brittle-to-Ductile Transition Range Failure Assessment of Spring-Operated Pressure Relief Valve Proof Test Data for Extending Time-in-Service Implementation of Ductile Damage Models to Determine Constraint Parameters for Ductile Materials-Phase 1 (Generic Constraint Conditions) Flaw Design for Dc-Ep Monitoring of Crack Initiation and Growth During Full-Size Pipe Experiments Investigation of Temperature Dependence of Weibull Parameters of the Beremin Model in Ductile-Brittle Transition Temperature Region A Parametric Study of Variable Crack Initiation Criterion in Xfem on Pipeline Steel Impact of the Outer Surface Air Cooling and Wps Approaches on the Brittle Fracture Margin of Wwer Rpv Simulations of Crack Extensions in Arc-Shaped Specimens of Uncharged and Tritium-Charged-and-Decayed Austenitic Stainless Steels Using Cohesive Zone Modeling Regression Analysis of Transition Temperature Shift Database for the Core Region Beltline Welds of Wwer-1000 Rpvs Sustainable Manufacturing and Optimization of Squeeze Stir Cast Rods Using Recycled Aluminum and Alumina Reinforcements Numerical Analysis of Electrical Roller Expanded Tube-to-Tubesheet Joints	Yes	Yes Yes Yes No No Yes No Yes
PVP2020-21124 PVP2020-21142 PVP2020-21169 PVP2020-21232 PVP2020-21239 PVP2020-21265 PVP2020-21492 PVP2020-21579 PVP2020-21651 PVP2020-21664 PVP2020-21736 PVP2020-21737 PVP2020-21738 PVP2020-21748 PVP2020-21788 PVP2020-21792 PVP2020-21794 MF-10: Pipeline integrity	Improved Method for Fracture Toughness Testing Using Compliance Method for High Toughness Materials Fracture Mechanics Assessment of Reactor Pressure Vessel Irradiated Structural Steel for Short Column Type Supports and Neutron Shield Tank The Effects of Material Properties on Crack Tip Constraint and Fracture Toughness for Commonly Used Pipelines Steels A New Proposal to Obtain the Ctod Fracture Parameter for Offshore Pipeline Steels by Using Only One Clip Gage Brittle Fracture of Stainless Steel Dissimilar Metal Welds in the Brittle-to-Ductile Transition Range Failure Assessment of Spring-Operated Pressure Relief Valve Proof Test Data for Extending Time-in-Service Implementation of Ductile Damage Models to Determine Constraint Parameters for Ductile Materials-Phase 1 (Generic Constraint Conditions) Flaw Design for Dc-Ep Monitoring of Crack Initiation and Growth During Full-Size Pipe Experiments Investigation of Temperature Dependence of Weibull Parameters of the Beremin Model in Ductile-Brittle Transition Temperature Region A Parametric Study of Variable Crack Initiation Criterion in Xfem on Pipeline Steel Impact of the Outer Surface Air Cooling and Wps Approaches on the Brittle Fracture Margin of Wwer Rpv Simulations of Crack Extensions in Arc-Shaped Specimens of Uncharged and Tritium-Charged-and-Decayed Austenitic Stainless Steels Using Cohesive Zone Modeling Regression Analysis of Transition Temperature Shift Database for the Core Region Beltline Welds of Wwer-1000 Rpvs Sustainable Manufacturing and Optimization of Squeeze Stir Cast Rods Using Recycled Aluminum and Alumina Reinforcements Numerical Analysis of Electrical Roller Expanded Tube-to-Tubesheet Joints Ultrasonic Nondestructive Evaluation of Stress Corrosion Crack in Welded Steel Plate	Yes	Yes Yes Yes No No Yes No Yes
PVP2020-21124 PVP2020-21142 PVP2020-21169 PVP2020-21232 PVP2020-21239 PVP2020-21492 PVP2020-21579 PVP2020-21651 PVP2020-21664 PVP2020-21736 PVP2020-21737 PVP2020-21738 PVP2020-21788 PVP2020-21788 PVP2020-21794 MF-10: Pipeline integrity PVP2020-21007	Improved Method for Fracture Toughness Testing Using Compliance Method for High Toughness Materials Fracture Mechanics Assessment of Reactor Pressure Vessel Irradiated Structural Steel for Short Column Type Supports and Neutron Shield Tank The Effects of Material Properties on Crack Tip Constraint and Fracture Toughness for Commonly Used Pipelines Steels A New Proposal to Obtain the Ctod Fracture Parameter for Offshore Pipeline Steels by Using Only One Clip Gage Brittle Fracture of Stainless Steel Dissimilar Metal Welds in the Brittle-to-Ductile Transition Range Failure Assessment of Spring-Operated Pressure Relief Valve Proof Test Data for Extending Time-in-Service Implementation of Ductile Damage Models to Determine Constraint Parameters for Ductile Materials-Phase 1 (Generic Constraint Conditions) Flaw Design for Dc-Ep Monitoring of Crack Initiation and Growth During Full-Size Pipe Experiments Investigation of Temperature Dependence of Weibull Parameters of the Beremin Model in Ductile-Brittle Transition Temperature Region A Parametric Study of Variable Crack Initiation Criterion in Xfem on Pipeline Steel Impact of the Outer Surface Air Cooling and Wps Approaches on the Brittle Fracture Margin of Wwer Rpv Simulations of Crack Extensions in Arc-Shaped Specimens of Uncharged and Tritium-Charged-and-Decayed Austenitic Stainless Steels Using Cohesive Zone Modeling Regression Analysis of Transition Temperature Shift Database for the Core Region Beltline Welds of Wwer-1000 Rpvs Sustainable Manufacturing and Optimization of Squeeze Stir Cast Rods Using Recycled Aluminum and Alumina Reinforcements Numerical Analysis of Electrical Roller Expanded Tube-to-Tubesheet Joints Ultrasonic Nondestructive Evaluation of Stress Corrosion Crack in Welded Steel Plate Anisotropy Effect on Ductile Crack Growth of Pressurized Pipes Under Fully Bending Moment	Yes	Yes Yes Yes No No Yes No Yes
PVP2020-21124 PVP2020-21142 PVP2020-21169 PVP2020-21232 PVP2020-21239 PVP2020-21265 PVP2020-21492 PVP2020-21651 PVP2020-21664 PVP2020-21736 PVP2020-21737 PVP2020-21748 PVP2020-21748 PVP2020-21788 PVP2020-21792 PVP2020-21794 MF-10: Pipeline integrity PVP2020-21007 PVP2020-21111	Improved Method for Fracture Toughness Testing Using Compliance Method for High Toughness Materials Fracture Mechanics Assessment of Reactor Pressure Vessel Irradiated Structural Steel for Short Column Type Supports and Neutron Shield Tank The Effects of Material Properties on Crack Tip Constraint and Fracture Toughness for Commonly Used Pipelines Steels A New Proposal to Obtain the Ctod Fracture Parameter for Offshore Pipeline Steels by Using Only One Clip Gage Brittle Fracture of Stainless Steel Dissimilar Metal Welds in the Brittle-to-Ductile Transition Range Failure Assessment of Spring-Operated Pressure Relief Valve Proof Test Data for Extending Time-in-Service Implementation of Ductile Damage Models to Determine Constraint Parameters for Ductile Materials-Phase 1 (Generic Constraint Conditions) Flaw Design for Dc-Ep Monitoring of Crack Initiation and Growth During Full-Size Pipe Experiments Investigation of Temperature Dependence of Weibull Parameters of the Beremin Model in Ductile-Brittle Transition Temperature Region A Parametric Study of Variable Crack Initiation Criterion in Xfem on Pipeline Steel Impact of the Outer Surface Air Cooling and Wps Approaches on the Brittle Fracture Margin of Wwer Rpv Simulations of Crack Extensions in Arc-Shaped Specimens of Uncharged and Tritium-Charged-and-Decayed Austenitic Stainless Steels Using Cohesive Zone Modeling Regression Analysis of Transition Temperature Shift Database for the Core Region Beltline Welds of Wwer-1000 Rpvs Sustainable Manufacturing and Optimization of Squeeze Stir Cast Rods Using Recycled Aluminum and Alumina Reinforcements Numerical Analysis of Electrical Roller Expanded Tube-to-Tubesheet Joints Ultrasonic Nondestructive Evaluation of Stress Corrosion Crack in Welded Steel Plate Anisotropy Effect on Ductile Crack Growth of Pressurized Pipes Under Fully Bending Moment Characterization of Anisotropic Mechanical Properties of X70 Spiral Welded Steel Pipes	Yes	Yes Yes Yes No No Yes No Yes

11: Small-scale and miniature mechanical testing (Joint with C&S)	Paper	Vide
PVP2020-21024 Optimization of Selected Parameters and Procedures in Small Punch Test Methodology	<u>Yes</u>	No
PVP2020-21416 Acoustic Emission Monitoring of Fatigue Crack Growth Through Standard and Miniature Single Edge Notch Tension Specimens.	<u>Yes</u>	Yes
PVP2020-21480 Non-Destructive Measurement of Local Tensile Properties Using Instrumented Indentation Technique	<u>Yes</u>	No
PVP2020-21481 Fracture Toughness Tests on Western Rpv Steels Using Small Scale Specimen Technique	<u>Yes</u>	Yes
PVP2020-21490 Estimation of Uniaxial Material Properties by Small Punch Testing to Support Post-Irradiation Examination of Reactor Pressure Vessel Steels	<u>Yes</u>	Yes
PVP2020-21507 Mechanical Properties of Ion-Irradiated Stainless Steels Determined by Nanoindentation Tests and Finite Element Analyses	<u>Yes</u>	No
PVP2020-21524 Validation of the Incremental Step Loading Technique Application to Small Punch Tests in Aggressive Environments	<u>Yes</u>	Yes
I2: Leak before break	Paper	Vid
PVP2020-21476 Crack Opening Areas Under Combined Primary and Secondary Loading	<u>Yes</u>	No
PVP2020-21532 Investigation of Circumferential Internal Surface Cracked Pipes and Elbows Tested at Conditions Similar to Pwr and an "Apparent Net-Section-Collapse" P	rediction ApproarYes	No
13: Composite and non-metallic systems for pressure vessels and piping (Joint with D&A)	Paper	Vid
PVP2020-21079 Composite Overwrapped Pipe Burst Test	<u>Yes</u>	No
PVP2020-21153 Effect of Glaze Composition on the Corrosion Resistance of Glass Lining of Glass-Lined Pressure Vessels	Yes	No
PVP2020-21260 Grp Composite Pipe Elbows Subject to an Internal Pressure and In-Plane Bending: An Experimental Study	Yes	Yes
PVP2020-21272 Cnn Based Defect Recognition for Phased Array Ultrasonic Inspection of Electrofusion Joint	Yes	Yes
PVP2020-21336 Long-Term Durability of Pitch-Based High Modulus Carbon Fiber Reinforced Plastics	Yes	No
PVP2020-21552 Materials Degradation and Strength Reduction Factors of Cfrp and Their Applications in Repair of Nuclear Safety Related Piping	Yes	No
PVP2020-21625 Investigation of Failure Behavior of Polyethylene Pipe Reinforced by Winding Steel Wires Subject to Inner Pressure and Bending	Yes	Yes
PVP2020-21818 Cryo-Mechanical Design of Alpaca: a Mixed-Material Radio-Frequency Vacuum Vessel Operating at 20 K.	Yes	Yes
15: Fatigue and fracture of welds and heat affected zones	Paper	Vid
PVP2020-21254 Evaluation of Mechanical and Corrosion Properties of Base Metal and Haz Having Ass 304l Forgings Containing Ferrite	Yes Yes	Yes
PVP2020-21505 Post Weld Heat Treatment and Fracture Toughness Evaluation of Electron Beam Welded Sa508 Alloys	Yes	No
6: Creep and creep-fatigue interaction	Paper	Vid
PVP2020-21133 Mechanical Properties and Microstructure of the Newly Developed Steel (Low-C-18cr-11ni-3cu-Mo-Nb-B-N) After Aging Treatment	Yes	Yes
PVP2020-21165 Application of a Novel Load Line Displacement Partitioning Technique to Creep Crack Growth Tests on Sen(t) Geometries of Type 316h Stainless Steel	Yes	Yes
PVP2020-21192 Microstructure Evolution and Creep Rupture Behavior of Modified 9cr-1mo Steel Welded Joint	Yes	No
PVP2020-21224 Correlation Between Thermal Desorption Spectrum Features and Creep Damage	Yes	Yes
PVP2020-21235 Rapid Prediction of High Temperature Properties of Furnace Tube Alloys Using Deep Learning Approaches	Yes	Yes
PVP2020-21336 Extrapolation of Creep Rupture Data Using Parametric Numerical Isothermal Datum Method (P-Nid) for Inconel 617	Yes	Yes
PVP2020-21356 The Effect of Hardening Model on Deformation Behavior of Cracked Component Under Creep-Fatigue Loading		No
PVP2020-21356 The Effect of Hardening Model on Deformation Behavior of Cracked Component Order Creep-Fatigue Loading PVP2020-21429 Correlation Analysis Between Creep Crack Initiation Time and Transient Elastic-Plastic-Creep Crack-Tip Stress Considering Initial Plasticity and Constrain	Yes Yes	
		No
PVP2020-21497 Damage Assessment of Similar Martensitic Welds Under Creep, Fatigue and Creep-Fatigue Loading	<u>Yes</u>	Yes
PVP2020-21613 Probabilistic Creep Modeling of 304 Stainless Steel Using Modified Wilshire Creep-Damage Model	<u>Yes</u>	Yes
PVP2020-21614 Evaluation of High Temperature Material Models for High Temperature Advanced Reactor Component Analysis	<u>Yes</u>	No
PVP2020-21674 Assessment of C*-Integral and Creep Cod for Welded Pipe With Strength Mismatch at High Temperature	<u>Yes</u>	No
PVP2020-21677 Development of "Material Specific" Creep Continuum Damage Mechanics-Based Constitutive Equations	<u>Yes</u>	Yes
PVP2020-21791 The Role of Grain Boundary Orientation and Secondary Phases in Creep Cavity Nucleation of a 316h Boiler Header	<u>Yes</u>	Yes
7: Advanced and additive manufacturing and material technologies (Joint with D&A)	Paper	Vid
PVP2020-21308 Microstructural Evolution During a Solid State Tube Pinch Weld	<u>Yes</u>	Yes
PVP2020-21349 A Study of Effect Ultrasonic Nanocrystal Surface Modification (Unsm) Treatment on Fatigue Strength of Additive Manufactured Uns S31603	<u>Yes</u>	Yes
PVP2020-21350 Increasing Fatigue Strength and Wear Resistance of Additive Manufactured Nickel Alloy (Uns N07718) by Ultrasonic Nanocrystal Surface Modification (Un	-	Yes
PVP2020-21410 The Tensile and Fatigue Performance of Additively Manufactured 316l Austenitic Stainless Steel	<u>Yes</u>	No
	<u>Yes</u>	Yes
PVP2020-21704 Residual Stress Measurements in a 316l Uniaxial Fatigue Sample Manufactured by Laser Powder Bed Fusion		Vid
18: Rotating equipment and pressure vessel technology for renewable energy	Paper	
	Paper <u>Yes</u>	Yes
18: Rotating equipment and pressure vessel technology for renewable energy	· · · · · · · · · · · · · · · · · · ·	

MF-2: Materials for hydrogen		Paper	Video
PVP2020-21021	Visualization of Trapped Hydrogen Along Grain Boundaries and Its Roles on Hydrogen-Induced Intergranular Fracture in Slow Strain Rate Tensile Testing of Pure Nickel	Yes	No
PVP2020-21122	Tensile and Fatigue Failure of 17-4 Ph Martensitic Stainless Steels in Presence of Hydrogen Depending on Test Frequency and Heat Treatment	Yes	No
PVP2020-21228	Effect of Hydrogen Content in Natural Gas Blend on the Mechanical Properties of a L485-Mb Low Alloy Steel	Yes	Yes
PVP2020-21229	Study on Hydrogen Resistance of X42 Pipeline Steel Under Eelectrochemical Hydrogen Charging Condition	Yes	Yes
PVP2020-21241	Evaluation of Material Compatibility for Hydrogen Applications Using Performance Factors Obtained by In-Situ Sp Test	Yes	No
PVP2020-21263	Measuring Fatigue Crack Growth Behavior of Ferritic Steels Near Threshold in High Pressure Hydrogen Gas	Yes	No
PVP2020-21277	Effect of High-Pressure Hydrogen and Water Impurity on Aluminum Alloys	Yes	No
PVP2020-21288	Hydrogen Effects on Fatique Life of Welded Austenitic Stainless Steels Evaluated With Hole-Drilled Tubular Specimens	Yes	No
PVP2020-21361	Hydrogen-Induced Fracture of X70 Pipeline Steel Base/weld Under Natural/hydrogen Gas Mixture Condition	Yes	Yes
PVP2020-21546	Comparison of J-R Curves Obtained by Single and Multi-Specimen Methodologies for a Pipe Having an Undermatched Girth Weld	Yes	Yes
MF-20: Material quality and fai		Paper	Video
PVP2020-21201	Characterisation of the Microstructural Evolution of Aged Grade 91 Steel	Yes	No
PVP2020-21363	Failure Cause Analysis of Dn150×100-L360gs Steel Tee in Oil Well	Yes	No
PVP2020-21741	Evaluation of Susceptibility to Thermal Fatigue Cracking in High Temperature Alloys for Refinery Olefin Applications	Yes	Yes
MF-22: 3D crack growth simul		Paper	Video
PVP2020-21026	Crack Propagation Modeling in a Pwr Under Pts Using Xfem	Yes	No
MF-23: Structural integrity for		Paper	Video
PVP2020-21399	INVESTIGATION OF CHLORIDE-INDUCED STRESS CORROSION CRACKING FOR AISI 304/304L STAINLESS STEEL USING NOTCHED BAR SPECIMENS	Yes	Yes
PVP2020-21419	Critical Crack Calculation by R6 Procedure for Spent Fuel Canister Considering Welding Residual Stress and Comparison With Asme/api Method	Yes	No
PVP2020-21419	Comparative Stress Analyses of Dropped Spent Nuclear Fuel Assembly in a Prototypal Cask	Yes	No
PVP2020-21774	Cinco Experiment of a Large Plate Sectioned From a Spent Nuclear Fuel Canister	Yes	Yes
		Paper	Video
MF-24: Materials and fabrication PVP2020-21284	Fabrication of P91 Materials, Experience and Guideline	•	No
PVP2020-21204 PVP2020-21391		<u>Yes</u>	
	Improvement of Toughness in Weld Metal of 9cr-1mo-v Steel by Gtaw After Long-Time Pwht	<u>Yes</u>	<u>Yes</u>
PVP2020-21461	Utilisation Limits of 11/4cr1/2mo (Sa387-11-2) Steel in High Plate Thickness	<u>Yes</u>	<u>Yes</u>
PVP2020-21484	P9mod: Coke Resistant Tubes/pipes Developed by Vallourec for Refinery Furnaces	<u>Yes</u>	No
PVP2020-21528	Pwht Exemptions for Carbon Steel in b31.3 – an Epc Contractor's Perspective	<u>Yes</u>	No
PVP2020-21555	Review of Life Assessment and Repair Strategies for Hydrogen Reformer and Ethylene Furnace Outlet Header Castings	<u>Yes</u>	No
PVP2020-21562	Application of Low Heat Input Gas Metal Arc Welding for Corrosion Resistant Weld Overlays	<u>Yes</u>	Yes
PVP2020-21626	Low Impact Test Results in Carbon Steel Flanges, Fittings and Piping – End User's View	<u>Yes</u>	No
PVP2020-21753	Tempering Response in Type 410 Stainless Steel Welds for Petrochemical Application	Yes	No
PVP2020-21799	Stainless Steel Pipe Welding With No Backing Gas	Yes	Yes
PVP2020-21842	Alloy 800h - Material and Fabrication Challenges Associated With Prescriptions for the Mitigation of Stress Relaxation Cracking	<u>Yes</u>	No
MF-25: High strength steels		Paper	Video
PVP2020-21519	High Strength Carbon Asme Sa-537 and Low-Alloy Sa-533 Steels as Alternatives to Asme Sa-516 Carbon Steel for Fabrication of Lightweight Pressure Vessels	Yes	No
PVP2020-21712	Application of Sa-533 Class 2 Vessels in Floating Lng Plants	Yes	No
PVP2020-21833	Investigation of Cghaz During Single and Multi-Pass Submerged Arc Welding of High Strength Steel	Yes	No
MF-3: Welding residual stress	and distortion simulation and measurement	Paper	Video
PVP2020-21233	A52m/sa502 Dissimilar Metal Rpv Repair Weld: Evaluation of Different Techniques	Yes	No
PVP2020-21236	A52m/sa502 Dissimilar Metal Rpv Repair Weld: Experimental Evaluation and Post-Weld Characterizations	Yes	No
PVP2020-21381	Friction Stir Diffusion Bonding of Magnesium Alloy Zk 60 to Astm A516-70 Steel	Yes	Yes
F V F Z U Z U - Z 1 3 0 1	Numerical and Functionated Decidural Chances of Different Welded Joint Configurations in Heavy Well	Yes	Yes
PVP2020-21361 PVP2020-21495	Numerical and Experimental Residual Stresses of Different Welded Joint Configurations in Heavy Wall		No
	Open Source Contour Method Analysis for Assessing Residual Stress in Weldments	Yes	INO
PVP2020-21495			Yes
PVP2020-21495 PVP2020-21537	Open Source Contour Method Analysis for Assessing Residual Stress in Weldments	Yes	
PVP2020-21495 PVP2020-21537 PVP2020-21576	Open Source Contour Method Analysis for Assessing Residual Stress in Weldments Evaluation by Two-Dimensional Finite Element Analysis of the Effect of Weld Layer Thickness on the Residual Stress Profile in Stainless Steel Pipe Welds	<u>Yes</u> <u>Yes</u>	Yes
PVP2020-21495 PVP2020-21537 PVP2020-21576 PVP2020-21629 PVP2020-21776	Open Source Contour Method Analysis for Assessing Residual Stress in Weldments Evaluation by Two-Dimensional Finite Element Analysis of the Effect of Weld Layer Thickness on the Residual Stress Profile in Stainless Steel Pipe Welds Investigation Into Residual Stresses in a Small Bore Pipe Weld With Stacked Stop/start Locations Comparison of Residual Stress Measurements on Single Bead-on-Plate Welds of a Martensitic Steel Using Neutron Diffraction	Yes Yes Yes	<u>Yes</u> No
PVP2020-21495 PVP2020-21537 PVP2020-21576 PVP2020-21629 PVP2020-21776 MF-4: European programs in s	Open Source Contour Method Analysis for Assessing Residual Stress in Weldments Evaluation by Two-Dimensional Finite Element Analysis of the Effect of Weld Layer Thickness on the Residual Stress Profile in Stainless Steel Pipe Welds Investigation Into Residual Stresses in a Small Bore Pipe Weld With Stacked Stop/start Locations Comparison of Residual Stress Measurements on Single Bead-on-Plate Welds of a Martensitic Steel Using Neutron Diffraction structural integrity	Yes Yes Yes Yes Paper	Yes No Yes Video
PVP2020-21495 PVP2020-21537 PVP2020-21576 PVP2020-21629 PVP2020-21776	Open Source Contour Method Analysis for Assessing Residual Stress in Weldments Evaluation by Two-Dimensional Finite Element Analysis of the Effect of Weld Layer Thickness on the Residual Stress Profile in Stainless Steel Pipe Welds Investigation Into Residual Stresses in a Small Bore Pipe Weld With Stacked Stop/start Locations Comparison of Residual Stress Measurements on Single Bead-on-Plate Welds of a Martensitic Steel Using Neutron Diffraction structural integrity Consideration of Special Effects for the Application of an Optimized Fracture Mechanics Approach for the Rpv Assessment – Project Camera	Yes Yes Yes Yes Yes Paper Yes	Yes No Yes
PVP2020-21495 PVP2020-21537 PVP2020-21576 PVP2020-21629 PVP2020-21776 MF-4: European programs in s	Open Source Contour Method Analysis for Assessing Residual Stress in Weldments Evaluation by Two-Dimensional Finite Element Analysis of the Effect of Weld Layer Thickness on the Residual Stress Profile in Stainless Steel Pipe Welds Investigation Into Residual Stresses in a Small Bore Pipe Weld With Stacked Stop/start Locations Comparison of Residual Stress Measurements on Single Bead-on-Plate Welds of a Martensitic Steel Using Neutron Diffraction structural integrity	Yes Yes Yes Yes Paper Yes Yes	Yes No Yes Video No
PVP2020-21495 PVP2020-21537 PVP2020-21576 PVP2020-21629 PVP2020-21776 MF-4: European programs in s PVP2020-21464 PVP2020-21466	Open Source Contour Method Analysis for Assessing Residual Stress in Weldments Evaluation by Two-Dimensional Finite Element Analysis of the Effect of Weld Layer Thickness on the Residual Stress Profile in Stainless Steel Pipe Welds Investigation Into Residual Stresses in a Small Bore Pipe Weld With Stacked Stop/start Locations Comparison of Residual Stress Measurements on Single Bead-on-Plate Welds of a Martensitic Steel Using Neutron Diffraction structural integrity Consideration of Special Effects for the Application of an Optimized Fracture Mechanics Approach for the Rpv Assessment – Project Camera Atlas+ European Project - Prediction of Large Ductile Tearing in Austenitic Piping Using Local Approach	Yes Yes Yes Yes Yes Paper Yes	Yes No Yes Video No Yes

PVP2002-21582 Test Protocol Definition to Measure Fracture Toughness Parameters Using Non-Standard Four Points Bending Specimens Yes Very PVP2002-21842 (Creep Damage Assessment of a Low Alby Pressure Vessel With Dissimilar Metal Welded Joint William (Creep Damage Assessment of a Low Alby Pressure Vessel With Dissimilar Metal Welded Joint William (Creep Damage Assessment of a Low Alby Pressure Vessel With Dissimilar Metal Welded Joint William (Creep Damage Assessment of a Low Alby PVP2002-21141 (Creep Damage Assessment of a Low Alby PVP2002-21141 (Craep Damage Assessment of a Low Alby Assessment Orange Damage Assessment of a Low Assessment of Assessme	MF-5: Fitness-For-Service and		Paper	Vide
PVP2020-21824 Creep Damage Assessment of a Low Alloy Pressure Vessel With Dissimilar Metal Welded Joint Medical Method Joint Medical Medical Incidence Physiology Test Facilities PVP2020-21282 Extension of Alloy C-276 Code Design Values for Advanced Molten Salt Technology Test Facilities PVP2020-21283 PVP2020-21383 PVP2020-21383 PVP2020-21383 Pupiciability of Formula of the Irradiation Assisted Stress Corrosion Cracking Rates for Neutron-Irradiated Type 316l Stainless Steels to Various Types of Stainless Steels 1 Viss Vess Vess PVP2020-21386 Estimation of Charpy Index Temperature of Sa 508 Mm-Mo-Ni Low Alloy Steels at 41 Using Small Punch Tests PVP2020-21386 Estimation of Charpy Index Temperature of Sa 508 Mm-Mo-Ni Low Alloy Steels at 41 Using Small Punch Tests PVP2020-21386 Estimation of Charpy Index Temperature of Sa 508 Mm-Mo-Ni Low Alloy Steels at 41 Using Small Punch Tests PVP2020-21386 Estimation of Charpy Index Temperature of Sa 508 Mm-Mo-Ni Low Alloy Steels at 41 Using Small Punch Tests Pvp2020-21386 Estimation of Charpy Index Temperature of Type 316l Austenitic Stainless Steels Manufactured by the Powder Metallurgy Hot Isostatic Pressing Process Pvp2020-21445 Pvp2020-21445 Pvp2020-21445 Pvp2020-21445 Pvp2020-21445 Pvp2020-21445 Pvp2020-21687 Study of the Influence of Microstructure and Intergranular Carbides on the Cracking Behavior of a Nickel Base Alloy 690 Tt in Supercritical Water Nuclear Reactor Condition Visa Pvp2020-21687 Conformation Property and Creep Life Evaluation of Supera Study Pvp2020-21687 Stainless Steel to Intergranular Corrosion Visa Pvp2020-21687 Assistance Modification of the Texture Toujness Using A Large-Scale, Heavy Forged Low Alloy Steel to Intergranular Corrosion Pvp2020-21687 Assistance Modification of the Affects of Laser Shock Peening and Ultrasonic Nanocrystalline Surface Modification on the Susceptibility of 304l Stainless Steel	PVP2020-21274	Validation of a Finite Element Toolbox for Studying Flaw Interaction	Yes	Yes
MF-8: Materials and technologies for nuclear power plants PPP2020-210129 Extension of Alloy C-276 Code Design Values for Advanced Molten Salt Technology Test Facilities PPP2020-21141 Cracking Behavior of a Decommissioned Material in Light Water Reactor Environment PP2020-21141 PP2020-21132 PP2020-21132 Applicability of Formula of the Irradiation Assisted Stress Corrosion Cracking Rates for Neutron-Irradiated Type 316i Stainless Steels to Various Types of Stainless Steels 1 Yes PP2020-211330 Estimation of Chargy Index Temperature of Sa 508 Mr-Mo-NI Low Alloy Steels at 14] Using Small Punch Tests PP2020-21336 Estimation of Chargy Index Temperature of Sa 508 Mr-Mo-NI Low Alloy Steels at 14] Using Small Punch Tests PP2020-21336 PP2020-21336 Evaluation of Crack Growth Rate of Neutron Irradiated Austenitic Stainless Steels at High Stress Intensity Factor Levels PP2020-21336 PP2020-21345 PP2020-21345 PP2020-21345 PP2020-21345 PP2020-21451 Study of the Influence of Microstructure and Intergranular Carbides on the Cracking Behavior of a Nickel Base Alloy 690 Tt in Supercritical Water Nuclear Reactor Condition Yes No PP2020-21502 PP2020-21502 PP2020-21503 PP2020-2150	PVP2020-21592	Test Protocol Definition to Measure Fracture Toughness Parameters Using Non-Standard Four Points Bending Specimens	Yes	Yes
PP/2020-21039 Extension of Alloy C-276 Code Design Yalues for Advanced Molten Salt Technology Test Facilities PP/2020-21287 Pilasma Arc Welding for Code Compliance Nuclear Application PP/2020-21287 Pilasma Arc Welding for Code Compliance Nuclear Application PP/2020-21382 Applicability of Formula of the Irradiation Assisted Stress Corrosion Cracking Rates for Neutron-Irradiated Type 316l Stainless Steels to Various Types of Stainless Steels L.Yes PP/2020-21380 Estimation of Charpy Index Temperature of Sa. 508 Mm-Mo-NiL tow Alloy Steels at 41 Using Small Punch Tests PP/2020-21385 Evaluation of Crack Growth Rate of Neutron Irradiated Austentitic Stainless Steels at 41 Using Small Punch Tests PP/2020-21389 High Temperature Mechanical Performance of Type 316l Austentitic Stainless Steels Manufactured by the Powder Metallurgy Hot Isostatic Pressing Process Yes PP/2020-21445 Properties of Caldiding With Respect to Rgv Integrity PP/2020-21459 Study of the Influence of Microstructure and Integranular Carbidos on the Cracking Behavior of a Nickel Base Alloy 690 Tt in Supercritical Water Nuclear Reactor Conditio Yes No PP/2020-21620 Fabrication and Assembly of the First Accident Tolerant Fuel Concept for Treat Testing PP/2020-21620 Creep Deformation Property and Creep Life Evaluation of Super304h PP/2020-21630 Creep Deformation Property and Creep Life Evaluation of Super304h PP/2020-21630 A Study of the Effects of Laser Shock Peening and Ultrasonic Nanocrystalline Surface Modification on the Susceptibility of 304l Stainless Steel to Integranular Corrosion PP/2020-21637 A Study of the Effects of Laser Shock Peening and Ultrasonic Nanocrystalline Surface Modification on the Susceptibility of 304l Stainless Steel to Integranular Corrosion PyP2020-21637 A Study of the Effects of Laser Shock Peening and Ultrasonic Nanocrystalline Surface Modification on the Susceptibility of 304l Stainless Steel to Integranular Corrosion PyP2020-21637 Deformance Analysis of Interfacial Cracks Near an Eccentric Elliptical Hole in Piezoelectric	PVP2020-21824	Creep Damage Assessment of a Low Alloy Pressure Vessel With Dissimilar Metal Welded Joint	Yes	Yes
PVP2020-21141 Cracking Behavior of a Decommissioned Material in Light Water Reactor Environment PVP2020-21322 Plasma Arv Welding for Code Compliance Nuclear Application PVP2020-21332 Applicability of Formula of the Irradiation Assisted Stress Corrosion Cracking Rates for Neutron-Irradiated Type 316I Stainless Steels to Various Types of Stainless Steels L 165 Yes PVP2020-21336 Estimation of Charpy Index Temperature of Sa Sol 8M-m/Ms-N Love Alloy Steels at 141 Lysing Small Punch Tests PVP2020-21336 Estimation of Charpy Index Temperature of Sa Sol 8M-m/Ms-N Love Alloy Steels at 141 Lysing Small Punch Tests PVP2020-21336 Estimation of Charby Index Temperature of Sa Sol 8M-m/Ms-N Love Alloy Steels at 141 Lysing Small Punch Tests PVP2020-21336 Estimation of Charby Index Temperature of Sa Sol 8M-m/Ms-N Love Alloy Steels at 141 Lysing Small Punch Tests PVP2020-21336 Evaluation of Crack Growth Rate of Neutron Irradiated Austentic Stainless Steels All High Temperature Mechanical Performance of Type 316I Austentic Stainless Steels All High Stress Intensity Factor Levels PVP2020-21454 Evaluation of Crack Growth Intensity Purp 216I Austentic Stainless Steels Manufactured by the Powder Metallurgy Hot Isostatic Pressing Process PVP2020-21455 Evaluation of State Performance of Type 316I Austentic Stainless Steels to High Temperature Australia Punch Intensity Purp 2100-21456 Performance Analysis of Interfacial Cracks Near an Eccentric Elliptical Hole in Piezoelectric Bi-Materials Under Incident Sh-Waves PVP2020-21456 Performance Analysis of Interfacial Cracks Near an Eccentric Elliptical Hole in Piezoelectric Bi-Materials Under Incident Sh-Waves Purp 2200-21456 Performance Analysis of Mechanical Properties Uning a Large-Scale, Heavy Forged Low Alloy Steel for a Reactor Pressure Vessel of By Visa Non-Destructive Evaluation of Ruger Stre	MF-6: Materials and technolog	gies for nuclear power plants	Paper	Vide
PVP2020-21372 Plasma Arc Welding for Code Compliance Nuclear Application PVP2020-21330 Plasma Arc Welding for Code Compliance Nuclear Application of PVP2020-21330 Estimation of Charpy Index Temperature of Sa-508 Mn-Mo-Ni Low Alloy Steels at 41 j Lising Small Punch Tests PVP2020-21330 Estimation of Charpy Index Temperature of Sa-508 Mn-Mo-Ni Low Alloy Steels at 41 j Lising Small Punch Tests PVP2020-21339 Evaluation of Crack Growth Rate of Neutron Irradiated Austentific Stainless Steels at High Stress Intensity Factor Levels PVP2020-21339 High Temperature Mechanical Performance of Type 316i Austentific Stainless Steels Manufactured by the Powder Metallurgy Hot Isostatic Pressing Process Yes Very PVP2020-21518 Properties of Cladding With Respect to Rpv Integrity PVP2020-21518 Study of the Influence of Microstructure and Integranular Carbides on the Cracking Behavior of a Nickel Base Alloy 690 Ti in Supercritical Water Nuclear Reactor Condition Yes No PVP2020-21518 PVP2020-21518 Study of the Influence of Microstructure and Integranular Carbides on the Cracking Behavior of a Nickel Base Alloy 690 Ti in Supercritical Water Nuclear Reactor Condition Yes No PVP2020-21518 PVP2020-21518 Study of the Influence of Microstructure and Integranular Carbides on the Cracking Behavior of a Nickel Base Alloy 690 Ti in Supercritical Water Nuclear Reactor Condition Yes No PVP2020-21518 PVP2020-21620 Study of the Influence Oracking Nickel Advanced Fee Study of the Influence of Microsin Carbide Nickel Study of the Influence Oracking Nickel Study Nic	PVP2020-21029	Extension of Alloy C-276 Code Design Values for Advanced Molten Salt Technology Test Facilities	Yes	Yes
PVP2202-21322 Applicability of Formula of the Irradiation Assisted Stress Corrosion Cracking Rates for Neutron-Irradiated Type 316l Stainless Steels to Various Types of Stainless Steels (1968 Yes) PVP2202-21365 Estimation of Charpy Index Temperature of Sa 508 Mm-Mo-Ni Low Alloy Steels at 419 Lising Small Punch Tests PVP2202-21365 Evaluation of Crack Growth Rate of Neutron Irradiated Austentic Stainless Steels at High Stress Intensity Factor Levels PVP2202-21365 Evaluation of Crack Growth Rate of Neutron Irradiated Austentic Stainless Steels Manufacture by the Powder Metallurgh to Isostatic Pressing Process Yes No PVP2202-21445 Properties of Cladding With Respect to Rpv Integrity PVP2202-21454 Stay of the Intelnence of Microstructure and Integranular Carbides on the Cracking Behavior of a Nickel Base Alloy 690 Tt in Supercritical Water Nuclear Reactor Condition Yes No PVP2202-21630 Fabrication and Assembly of the First Accident Tolerant Fuel Concept for Treat Testing PVP2202-21630 Fabrication and Assembly of the First Accident Tolerant Fuel Concept for Treat Testing PVP2202-21630 Scc Growth Prediction for Surface Crack in Welded Joint Using Advanced Fee PVP2202-21637 Scc Growth Prediction for Surface Crack in Welded Joint Using Advanced Fee PVP2202-21637 Quantification on Effect of Clares Polerania and Ultrassonic Nancorystalline Surface Modification on the Susceptibility of 304l Stainless Steel to Integranular Corrosion Yes PVP2202-21637 Quantification on Effect of Carbon Macro-Segregation on Mechanical Properties Using a Large-Scale, Heavy Forged Low Alloy Steel for a Reactor Pressure Vessel of Bay Yes PVP2202-21631 Quantification on the Material Ductility Effect on Notch Fracture Toughness Using a Large-Scale, Heavy Forged Low Alloy Steel for a Reactor Pressure Vessel of Bay PVP2202-21740 Yistadam – a Physics Based Ductile Fracture Model for Pressurized Plps Failure PVP2202-21741 Quantification on the Material Ductility Effect on Notch Pressurized Plps Failure PVP2202-21741 Superconduction of Typical Defects	PVP2020-21141	Cracking Behavior of a Decommissioned Material in Light Water Reactor Environment	Yes	No
PVP2020-21360 Estimation of Charpy Index Temperature of Sa 508 Mn-Mo-Ni. Low Alloy Steels at 41 j Using Small Punch Tests PVP2020-21389 Evaluation of Crack Growth Rate of Neutron Irradiated Austenitic Stainless Steels Manufactured by the Powder Metallurgy Hot Isostatic Pressing Process PVP2020-21438 High Temperature Mechanical Performance of Type 316l Austenitic Stainless Steels Manufactured by the Powder Metallurgy Hot Isostatic Pressing Process PVP2020-21438 Study of the Influence of Microstructure and Intergranular Carbides on the Cracking Behavior of a Nickel Base Alloy 690 Tt in Supercritical Water Nuclear Reactor Conditio Yes PVP2020-21518 Study of the Influence of Microstructure and Intergranular Carbides on the Cracking Behavior of a Nickel Base Alloy 690 Tt in Supercritical Water Nuclear Reactor Conditio Yes PVP2020-21623 Creep Deformation Property and Creep Life Evaluation of Super3044 PVP2020-21630 Creep Deformation Property and Creep Life Evaluation of Super3044 PVP2020-21630 Creep Deformation Property and Creep Life Evaluation of Super3044 PVP2020-21630 Creep Deformation of The Material Ductility Effect on Notice Crack in Welded Joint Using Advanced Fea PVP2020-21637 Quantification of the Material Ductility Effect on Notice Practive Toughness Using Numerical Damage Analysis Method PVP2020-21637 Quantification on Effect of Casch in Method Practive Toughness Using Numerical Damage Analysis Method PVP2020-21630 Pypamic Performance Analysis of Interfacial Cracks Near an Eccentric Elliptical Hole in Piezoelectric Bi-Materials Under Incident Sh-Waves PVP2020-21630 Dynamic Performance Analysis of Interfacial Cracks Near an Eccentric Elliptical Hole in Piezoelectric Bi-Materials Under Incident Sh-Waves PVP2020-21746 Non-Properties of Metals Manifested Under Complex Loading PVP2020-21746 Non-Pro	PVP2020-21287	Plasma Arc Welding for Code Compliance Nuclear Application	Yes	No
PVP2020-21385 Evaluation of Crack Growth Rate of Neutron Irradiated Austenitic Stainless Steels at High Stress Intensity Factor Levels PVP2020-21348 High Temperature Mechanical Performance of Type 3 16I Austenitic Stainless Steels at High Stress Intensity Process PVP2020-21445 Properties of Cladding With Respect to Rpv Integrity PVP2020-21458 Study of the Influence of Microstructure and Intergranular Carbides on the Cracking Behavior of a Nickel Base Alloy 690 Tt in Supercritical Water Nuclear Reactor Condition (1962) PVP2020-21620 Properties of Cladding With Respect to Rpv Integrity PVP2020-21623 Creep Deformation Properly and Creep Life Evaluation of Super304h PVP2020-21623 Creep Deformation Properly and Creep Life Evaluation of Super304h PVP2020-21630 Creep Deformation Properly and Creep Life Evaluation of Super304h PVP2020-21686 A Study of the Effects of Laser Shock Peening and Ultrasonic Nanocrystalline Surface Modification on the Susceptibility of 304I Stainless Steel to Intergranular Corrosion Yes PvP2020-21686 A Study of the Effects of Laser Shock Peening and Ultrasonic Nanocrystalline Surface Modification on the Susceptibility of 304I Stainless Steel to Intergranular Corrosion Yes PvP2020-21687 Intergranular Corrosion of the Material Ductility Effect on Nother Fracture Toughness Using Numerical Damage Analysis Method Investigation on Effect of Carbon Macro-Segregation on Mechanical Properties Using a Large-Scale, Heavy Forged Low Alloy Steel for a Reactor Pressure Vessel of Bwr Yes No PvP2020-21635 Dynamic Performance Analysis of Interfacial Cracks Near an Eccentric Elliptical Hole in Plezoelectric Bi-Materials Under Incident Sh-Waves Yes Yes PvP2020-21650 Vistadam – a Physics Based Ductile Fracture Model for Pressured Pipe Failure PvP2020-21650 Vistadam – a Physics Based Ductile Fracture Model for Pressured Pipe Failure PvP2020-21650 Vistadam – a Physics Based Ductile Fracture Model for Pressured Pipe Failure PvP2020-21650 Non-Destructive Evaluation of Repractive Evaluation of Single Crystal Liniamyro	PVP2020-21332	Applicability of Formula of the Irradiation Assisted Stress Corrosion Cracking Rates for Neutron-Irradiated Type 316l Stainless Steels to Various Types of Stainless Steels	L <u>Yes</u>	Yes
PVP2020-21489 High Temperature Mechanical Performance of Type 316I Austenitic Stainless Steels Manufactured by the Powder Metallurgy Hot Isostatic Pressing Process PVP2020-21518 Study of the Influence of Microstructure and Intergranular Carbides on the Cracking Behavior of a Nickel Base Alloy 690 Tt in Supercritical Water Nuclear Reactor Condition PVP2020-21620 Fabrication and Assembly of the First Accident Tolerant Fuel Concept for Treat Testing PVP2020-21670 Creep Deformation Property and Creep Life Evaluation of Super304h PVP2020-21670 Scc Growth Prediction for Surface Crack in Welded Joint Using Advanced Fea PVP2020-21687 A Study of the Effects of Laser Shock Peening and Ultrasonic Nanocrystalline Surface Modification on the Susceptibility of 304I Stainless Steel to Intergranular Corrosion PVP2020-21687 Quantification of the Material Ductility Effect on Notch Fracture Toughness Using Numerical Damage Analysis Method Investigation on Effect of Carbon Macro-Segregation on Mechanical Properties Using a Large-Scale, Heavy Forged Low Alloy Steel for a Reactor Pressure Vessel of Bury PVP2020-21131 Dynamic Performance Analysis of Interfacial Cracks Near an Eccentric Elliptical Hole in Piezoelectric B-Materials Under Incident Sh-Waves PVP2020-21145 Dynamic Performance Analysis of Interfacial Cracks Near an Eccentric Elliptical Hole in Piezoelectric B-Materials Under Incident Sh-Waves PVP2020-211746 Na Investigation Into the Robustness of a Cystal Plasticity Finite Element Model PVP2020-211745 Superimental Studies of Typical Defects on Large Capacity Hoop-Wrapped Composite Cylinder of Steel Liner Based on X-Ray Digital Radiography Test PVP2020-21512 Na Non-Destructive Evaluation of System for the Inspection of Operation Induced Material Degradation in Nuclear Power Plants PVP2020-21512 Na Non-Destructive Evaluation of System for the Inspection of Operation Induced Material Degradation in Nuclear Power Plants PVP2020-21640 A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves PVP2020-21640 A	PVP2020-21360		Yes	Yes
PVP2020-21445 Properties of Cladding With Respect to Rpv Integrity PVP2020-21600 Study of the Influence of Microstructure and Integranular Carbides on the Cracking Behavior of a Nickel Base Alloy 690 Tt in Supercritical Water Nuclear Reactor Condition Yes No PVP2020-21620 Fabrication and Assembly of the First Accident Tolerant Fuel Concept for Treat Testing PVP2020-21623 Creep Deformation Property and Creep Life Evaluation of Superdolf PVP2020-21630 Scc Growth Prediction for Surface Crack in Welded Joint Using Advanced Fea PVP2020-21686 A Study of the Effects of Laser Shock Peening and Ultrasonic Nanocrystalline Surface Modification on the Susceptibility of 304l Stainless Steel to Integranular Corrosion PVP2020-21687 A Study of the Effects of Laser Shock Peening and Ultrasonic Nanocrystalline Surface Modification on the Susceptibility of 304l Stainless Steel to Integranular Corrosion PVP2020-21687 Investigation on Effect of Carbon Macro-Segregation on Mechanical Properties Using a Large-Scale, Heavy Forged Low Alloy Steel for a Reactor Pressure Vessel of Bwr PVP2020-21213 Dynamic Performance Analysis of Interfacial Cracks Near an Eccentric Elliptical Hole in Piezoelectric Bi-Materials Under Incident Sh-Waves PVP2020-21213 Dynamic Performance Analysis of Interfacial Cracks Near an Eccentric Elliptical Hole in Piezoelectric Bi-Materials Under Incident Sh-Waves PVP2020-21265 Vistadam – a Physics Based Ductile Fracture Model for Pressurzed Pipe Failure PVP2020-21650 Vistadam – a Physics Based Ductile Fracture Model for Pressurzed Pipe Failure PVP2020-21750 Visual Pressuration of Typical Defects on Large Capacity Hoop-Wrapped Composite Cylinder of Steel Liner Based on X-Ray Digital Radiography Test PVP2020-21761 Experimental Studies of Typical Defects on Large Capacity Hoop-Wrapped Composite Cylinder of Steel Liner Based on X-Ray Digital Radiography Test PVP2020-21761 Non-Destructive Evaluation of Ryp Embritelment by Means of the Thermosite Power Method PVP2020-21761 A A Intercept Capacity Management and Fitness-For	PVP2020-21365	Evaluation of Crack Growth Rate of Neutron Irradiated Austenitic Stainless Steels at High Stress Intensity Factor Levels	Yes	Yes
PVP2020-21618 Study of the Influence of Microstructure and Intergranular Carbides on the Cracking Behavior of a Nickel Base Alloy 690 Tt in Supercritical Water Nuclear Reactor Condition Vises No PVP2020-21623 Creep Deformation Property and Creep Life Evaluation of Super304h PVP2020-21670 Scc Growth Precidion for Surface Crack in Welded Joint Using Advanced Fea PVP2020-21687 A Study of the Effects of Laser Shock Peening and Ultrasonic Nanocrystalline Surface Modification on the Susceptibility of 304l Stainless Steel to Intergranular Corrosine PVP2020-21687 Quantification of the Material Ductility Effect on Notch Fracture Toughness Using Numerical Damage Analysis Method Investigation on Effect of Carbon Macro-Segregation on Mechanical Properties Using a Large-Scale, Heavy Forged Low Alloy Steel for a Reactor Pressure Vessel of Bury PVP2020-21687 Quantification of the Material Ductility Effect on Notch Fracture Toughness Using a Large-Scale, Heavy Forged Low Alloy Steel for a Reactor Pressure Vessel of Bury PVP2020-21687 Quantification on Effect of Carbon Macro-Segregation on Mechanical Properties Using a Large-Scale, Heavy Forged Low Alloy Steel for a Reactor Pressure Vessel of Bury PVP2020-21425 Quantification and fracture Peeper Vises PVP2020-21425 Quantification and fracture Model Complex Loading PVP2020-21425 Quantification and Frogress of Metals Manifested Under Complex Loading PVP2020-21456 Vistadam – a Physics Based Ductile Fracture Model for Pressurized Pipe Failure PVP2020-21786 An Investigation Into the Robustness of a Crystal Plasticity Finite Element Model An Investigation Into the Robustness of a Crystal Plasticity Finite Element Model PVP2020-21286 Indentation Analysis of Mechanical Degradation of Single Crystal Linkmryozo2 Cathode in Li-Ion Battery PVP2020-21286 Indentation Analysis of Mechanical Degradation of Single Crystal Linkmryozo2 Cathode in Li-Ion Battery PVP2020-21184 Non-Destructive Evaluation of Rpv Embrittlement by Means of the Thermoelectric Power Method PVP2020-21184 Non-Destructive E	PVP2020-21389	High Temperature Mechanical Performance of Type 316l Austenitic Stainless Steels Manufactured by the Powder Metallurgy Hot Isostatic Pressing Process	Yes	No
PVP2020-21620 Fabrication and Assembly of the First Accident Tolerant Fuel Concept for Treat Testing PVP2020-21670 Scc Growth Prediction for Surface Crack in Welded Joint Using Advanced Fea PVP2020-21686 A Study of the Effects of Laser Shock Peening and Ultrasonic Nanocrystalline Surface Modification on the Susceptibility of 304 Stainless Steel to Intergranular Corrosion PVP2020-21687 A Study of the Effects of Laser Shock Peening and Ultrasonic Nanocrystalline Surface Modification on the Susceptibility of 304 Stainless Steel to Intergranular Corrosion PVP2020-21687 A Study of the Effects of Laser Shock Peening and Ultrasonic Nanocrystalline Surface Modification on the Susceptibility of 304 Stainless Steel to Intergranular Corrosion PVP2020-21687 Investigation on Effect of Carbon Macro-Segregation on Mechanical Properties Using a Large-Scale, Heavy Forged Low Alloy Steel for a Reactor Pressure Vessel of Bw PVP2020-21687 Unstandam – a Physics Based Ductile Fracture Model for Pressurized Pipe Failure PVP2020-21425 On Some Properties of Metals Manifested Under Complex Loading PVP2020-21425 On Some Properties of Metals Manifested Under Complex Loading PVP2020-21466 An Investigation into the Robustness of a Crystal Plasticity Finitie Element Model PVP2020-21476 An Investigation into the Robustness of a Crystal Plasticity Finitie Element Model PVP2020-21476 Experimental Studies of Typical Defects on Large Capacity Hoop-Wrapped Composite Cylinder of Steel Liner Based on X-Ray Digital Radiography Test PVP2020-21446 Non-Destructive Evaluation of System for the Inspection of Operation Induced Material Degradation in Nuclear Power Plants PVP2020-21581 Asset Integrity Management and Fitness-for-Service Assessment of a Pipe Elbow With Metal Loss PVP2020-21581 Asset Integrity Management and Fitness-for-Service Assessment of a Pipe Elbow With Metal Loss PVP2020-21684 A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves PVP2020-21694 Research on Digital Radiographic Inspection of Departing the Inserted	PVP2020-21445	Properties of Cladding With Respect to Rpv Integrity	Yes	No
PVP2020-21623 Creep Deformation Property and Creep Life Evaluation of Super304in Property 2020-21687 Scc Growth Prediction for Surface Crack in Welded Joint Using Advanced Fea PVP2020-21687 A Study of the Effects of Laser Shock Pening and Ultrasonic Nanocrystalline Surface Modification on the Susceptibility of 304l Stainless Steel to Intergranular Corrosion PVP2020-21687 Quantification of the Material Ductlifly Effect on Notch Fracture Toughness Using Numerical Damage Analysis Method PVP2020-21687 Investigation on Effect of Carbon Macro-Segregation on Mechanical Denging Numerical Damage Analysis Method Investigation on Effect of Carbon Macro-Segregation on Mechanical Perpetries Using a Large-Scale, Heavy Forged Low Alloy Steel for a Reactor Pressure Vessel of Bwr News North Perpetries of Interfacial Cracks Near an Eccentric Elliptical Hole in Piezoelectric Bi-Materials Under Incident Sh-Waves Yes North-Py2020-21245 On Some Properties of Metals Manifested Under Complex Loading PvP2020-21455 On Some Properties of Metals Manifested Under Complex Loading Yes North-Py2020-2146 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model Yes North-Py2020-2174 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model Yes North-Py2020-2174 Experimental Studies of Typical Defects on Large Capacity Hoop-Wrapped Composite Cylinder of Steel Liner Based on X-Ray Digital Radiography Test Yes North-Py2020-2154 North-Py2020-2154 North-Py2020-2154 North-Py2020-2154 North-Py2020-2154 North-Py2020-2154 North-Py2020-2155 North-Py2020-2155 North-Py2020-2155 North-Py2020-2156 Nort	PVP2020-21518	Study of the Influence of Microstructure and Intergranular Carbides on the Cracking Behavior of a Nickel Base Alloy 690 Tt in Supercritical Water Nuclear Reactor Condition	r <u>Yes</u>	No
PVP2020-21670 Scc Growth Prediction for Surface Crack in Welded Joint Using Advanced Fea PVP2020-21686 A Study of the Effects of Laser Shock Peening and Ultrasonic Nanocrystalline Surface Modification on the Susceptibility of 304l Stainless Steel to Intergranular Corrosion PVP2020-21687 Quantification of the Material Ductility Effect on Notch Fracture Toughness Using Numerical Damage Analysis Method PVP2020-21857 Investigation on Effect of Carbon Macro-Segregation on Mechanical Properties Using a Large-Scale, Heavy Forged Low Alloy Steel for a Reactor Pressure Vessel of Bwr Yes PVP2020-21857 Dynamic Performance Analysis of Interfacial Cracks Near an Eccentric Elliptical Hole in Plezoelectric Bi-Materials Under Incident Sh-Waves PVP2020-21213 Dynamic Performance Analysis of Interfacial Cracks Near an Eccentric Elliptical Hole in Plezoelectric Bi-Materials Under Incident Sh-Waves PVP2020-21215 On Some Properties of Metals Manifested Under Complex Loading PVP2020-21650 Vistadam – a Physics Based Ductile Fracture Model for Pressurized Pipe Failure PVP2020-21746 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model PVP2020-21746 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model PVP2020-21171 Experimental Studies of Typical Defects on Large Capacity Hoop-Wrapped Composite Cylinder of Steel Liner Based on X-Ray Digital Radiography Test PVP2020-21181 Experimental Studies of Typical Defects on Large Capacity Hoop-Wrapped Composite Cylinder of Steel Liner Based on X-Ray Digital Radiography Test PVP2020-21544 Non-Destructive Evaluation of Rpv Embrittlement by Means of the Thermoelectric Power Method PVP2020-21541 Non-Destructive Evaluation of System for the Inspection of Operation Induced Material Degradation in Nuclear Power Plants PVP2020-21541 Asset Integrity Management and Fitness-for-Service Assessment of a Pipe Elbow With Metal Loss PVP2020-21540 A New Framework for Damage Source Localization in Components PVP2020-21641 A New Framework for Damage Source L	PVP2020-21620	Fabrication and Assembly of the First Accident Tolerant Fuel Concept for Treat Testing	Yes	No
PVP2020-21867 A Study of the Effects of Laser Shock Peening and Ultrasonic Nanocrystalline Surface Modification on the Susceptibility of 304l Stainless Steel to Intergranular Corrosion PVP2020-21887 Quantification of the Material Ductility Effect on Notch Fracture Toughness Using Numerical Damage Analysis Method Investigation on Effect of Carbon Macro-Segregation on Mechanical Properties Using a Large-Scale, Heavy Forged Low Alloy Steel for a Reactor Pressure Vessel B Bw Yes No Investigation on Effect of Carbon Macro-Segregation on Mechanical Properties Using a Large-Scale, Heavy Forged Low Alloy Steel for a Reactor Pressure Vessel of Bw Yes No PVP2020-21425 Dynamic Performance Analysis of Interfacial Cracks Near an Eccentric Elliptical Hole in Piezoelectric Bi-Materials Under Incident Sh-Waves Yes PVP2020-21425 On Some Properties of Metals Manifested Under Complex Loading PvP2020-21425 On Some Properties of Metals Manifested Under Complex Loading PvP2020-21425 On Some Properties of Metals Manifested Under Complex Loading PvP2020-2146 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model PvP2020-2146 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model PvP2020-21146 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model PvP2020-21147 Experimental Studies of Typical Defects on Large Capacity Hoop-Wrapped Composite Cylinder of Steel Liner Based on X-Ray Digital Radiography Test Yes No PVP2020-21151 Experimental Studies of Typical Defects on Large Capacity Hoop-Wrapped Composite Cylinder of Steel Liner Based on X-Ray Digital Radiography Test Yes No PVP2020-21581 Nomad: Non-Destructive Evaluation of System for the Inspection of Operation Induced Material Degradation in Nuclear Power Plants Yes Yes PVP2020-21581 Asset Integrity Management and Fitness-for-Service Assessment of a Pipe Elbow With Metal Loss Power Plants A Finite Element Simulation Study on Reducers Based on University Presponded Analysis of a Corrosion Process in Sec	PVP2020-21623	Creep Deformation Property and Creep Life Evaluation of Super304h	Yes	No
PVP2020-21887 Quantification of the Material Ductility Effect on Notch Fracture Toughness Using Numerical Damage Analysis Method Yes No PVP2020-21857 Investigation on Effect of Carbon Macro-Segregation on Mechanical Properties Using a Large-Scale, Heavy Forged Low Alloy Steel for a Reactor Pressure Vessel of By Yes No PVP2020-21213 Dynamic Performance Analysis of Interfacial Cracks Near an Eccentric Elliptical Hole in Piezoelectric Bi-Materials Under Incident Sh-Waves Yes PVP2020-21425 On Some Properties of Metals Manifested Under Complex Loading Yes PVP2020-21505 Vistadam – a Physics Based Ductile Fracture Model for Pressurized Pipe Failure Yes PVP2020-21746 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model Yes PVP2020-21746 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model Yes PVP2020-21177 Experimental Studies of Typical Defects on Large Capacity Hoop-Wrapped Composite Cylinder of Steel Liner Based on X-Ray Digital Radiography Test Yes PVP2020-21117 Experimental Studies of Typical Defects on Large Capacity Hoop-Wrapped Composite Cylinder of Steel Liner Based on X-Ray Digital Radiography Test Yes PVP2020-21518 Indentation Analysis of Mechanical Degradation of Single Crystal Linixmnycozo 2 cathode in Li-Ion Battery Non-Destructive Evaluation of Rpv Embrittlement by Means of the Thermoelectric Power Method Yes No PVP2020-21512 Nomad: Non-Destructive Evaluation System for the Inspection of Operation Induced Material Degradation in Nuclear Power Plants Yes Yes PVP2020-21514 Asset Integrity Management and Fitness-fro-Service Assessment of a Pipe Elbow With Metal Loss Yes Yes PVP2020-21740 A New Framework for Damage Source Localization in Composite Scarf Joints Based on Acoustic Emission and Supervised Learning Yes Yes PVP2020-21071 Research on Flexible Phased Array Technique for Testing the Inserted Fillet Welds Yes PVP2020-21071 Research on Digital Radiographic Inspection of Hin-Service Fiber	PVP2020-21670	Scc Growth Prediction for Surface Crack in Welded Joint Using Advanced Fea	Yes	No
PVP2020-21857 Investigation on Effect of Carbon Macro-Segregation on Mechanical Properties Using a Large-Scale, Heavy Forged Low Alloy Steel for a Reactor Pressure Vessel of Bwr MF-9: Mechanistic modelling of deformation and fracture PVP2020-21213 Dynamic Performance Analysis of Interfacial Cracks Near an Eccentric Elliptical Hole in Piezoelectric Bi-Materials Under Incident Sh-Waves Yes Yes PVP2020-21425 On Some Properties of Metals Manifested Under Complex Loading PVP2020-21465 Vistadam – a Physics Based Ductile Fracture Model for Pressurized Pipe Failure PVP2020-21746 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model PVP2020-21746 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model PVP2020-21746 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model PVP2020-21746 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model PVP2020-21177 Experimental Studies of Typical Defects on Large Capacity Hoop-Wrapped Composite Cylinder of Steel Liner Based on X-Ray Digital Radiography Test Yes Yes PVP2020-21458 Indentation Analysis of Mechanical Degradation of Single Crystal Linimsmycozo Cathode in Li-Ion Battery No PVP2020-21446 Non-Destructive Evaluation of Ryp Embrittlement by Means of the Thermoelectric Power Method PVP2020-21511 Nomadi. Non-Destructive Evaluation of Syngle Crystal Linimsmycozo Cathode in Li-Ion Battery No PVP2020-21512 Nomadi. Non-Destructive Evaluation of Syngle Crystal Linimsmycozo Cathode in Li-Ion Battery No PVP2020-21514 Nomadi. Non-Destructive Evaluation of Syngle Crystal Linimsmycozo Cathode in Li-Ion Battery No PVP2020-21514 Nomadi. Non-Destructive Evaluation of Syngle Crystal Linimsmycozo Cathode in Li-Ion Battery No PVP2020-21514 Nomadi. Non-Destructive Evaluation of Syngle Crystal Linimsmycozo Cathode in Li-Ion Battery No PVP2020-21514 Nome Non-Destructive Evaluation of Syngle Crystal Linimsmycozo Cathode in Li-Ion Battery No PVP2020-21514 Nome Non-Destructive	PVP2020-21686	A Study of the Effects of Laser Shock Peening and Ultrasonic Nanocrystalline Surface Modification on the Susceptibility of 304l Stainless Steel to Intergranular Corrosion	Yes	Yes
MF-9: Mechanistic modelling of deformation and fracture PVP2020-2-1213 Dynamic Performance Analysis of Interfacial Cracks Near an Eccentric Elliptical Hole in Piezoelectric Bi-Materials Under Incident Sh-Waves Yes Yes PVP2020-21425 On Some Properties of Metals Manifested Under Complex Loading PVP2020-2-1650 Vistadam – a Physics Based Ductile Fracture Model for Pressurized Pipe Failure PVP2020-2-1746 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model PVP2020-2-1746 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model PVP2020-2-1746 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model PVP2020-2-1177 Experimental Studies of Typical Defects on Large Capacity Hoop-Wrapped Composite Cylinder of Steel Liner Based on X-Ray Digital Radiography Test PVP2020-2-12158 Indication Analysis of Mechanical Degradation of Single Crystal Linixmnycozo2 Cathode in Li-lon Battery PVP2020-2-1246 Non-Destructive Evaluation of Rpv Embrittlement by Means of the Thermoelectric Power Method PVP2020-2-1512 Nomad: Non-Destructive Evaluation System for the Inspection of Operation Induced Material Degradation in Nuclear Power Plants PVP2020-2-1513 Asset Integrity Management and Fitness-for-Service Assessment of a Pipe Elbow With Metal Loss PVP2020-2-1740 A New Framework for Damage Source Localization in Composite Scarf Joints Based on Acoustic Emission and Supervised Learning PVP2020-2-1704 Research on Fiexible Phased Array Technique for Testing the Inserted Fillet Welds PVP2020-2-1094 A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves PVP2020-2-1094 Research on Digital Radiographic Inspection of In-Service Fiber Reinforced Plastic Pipe PVP2020-2-1184 Diagnosis of a Corrosion Process in Secondary Piping Structures in Nuclear Power Plants PVP2020-2-1246 Research on the Inspection Parameters of Ultrasonic Phased Array for the Periodic Inspection of High-Pressure Hydrogen Vessel PVP2020-2-12426	PVP2020-21687	Quantification of the Material Ductility Effect on Notch Fracture Toughness Using Numerical Damage Analysis Method	Yes	No
PVP2020-214213 Dynamic Performance Analysis of Interfacial Cracks Near an Eccentric Elliptical Hole in Piezoelectric Bi-Materials Under Incident Sh-Waves Yes No PVP2020-21425 On Some Properties of Metals Manifested Under Complex Loading PVP2020-21450 Vistadam — a Physics Based Ductile Fracture Model for Pressurized Pipe Failure PVP2020-21746 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model Yes No PVP2020-21746 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model Yes No PVP2020-21746 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model Yes No PVP2020-21177 Experimental Studies of Typical Defects on Large Capacity Hoop-Wrapped Composite Cylinder of Steel Liner Based on X-Ray Digital Radiography Test Yes Yes PVP2020-21158 Indentation Analysis of Mechanical Degradation of Single Crystal Linixmnycozo2 Cathode in Li-lon Battery Yes No PVP2020-21446 Non-Destructive Evaluation of Rpv Embrittlement by Means of the Thermoelectric Power Method Yes Non-PVP2020-21512 Nomad: Non-Destructive Evaluation System for the Inspection of Operation Induced Material Degradation in Nuclear Power Plants Yes Yes PVP2020-21581 Asset Integrity Management and Fitness-for-Service Assessment of a Pipe Elbow With Metal Loss PVP2020-21740 A New Framework for Damage Source Localization in Composite Secarf Joints Based on Acoustic Emission and Supervised Learning Yes Yes PVP2020-21740 A New Framework for Damage Source Localization in Composite Secarf Joints Based on Acoustic Emission and Supervised Learning Yes Yes PVP2020-21094 A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves Yes PVP2020-21094 Research on Plexible Phased Array Technique for Testing the Inserted Fillet Welds Yes Yes PVP2020-21094 Research on Digital Radiographic Inspection of In-Service Fiber Reinforced Plastic Pipe PVP2020-21184 Diagnosis of a Corrosion Process in Secondary Piping Structures in Nuclear Power Plants Yes Yes PVP2020-21184 Research on the Insp	PVP2020-21857	Investigation on Effect of Carbon Macro-Segregation on Mechanical Properties Using a Large-Scale, Heavy Forged Low Alloy Steel for a Reactor Pressure Vessel of Bwr	Yes	No
PVP2020-21425 On Some Properties of Metals Manifested Under Complex Loading PVP2020-21650 Vistadam – a Physics Based Ductlie Fracture Model for Pressurized Pipe Failure PVP2020-21746 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model Poestructive Examination NDE-1: Emerging NDE and Prognostic Techniques and Applications PVP2020-21171 Experimental Studies of Typical Defects on Large Capacity Hoop-Wrapped Composite Cylinder of Steel Liner Based on X-Ray Digital Radiography Test PVP2020-21258 Indentation Analysis of Mechanical Degradation of Single Crystal Linixmnycozo Cathode in Li-Ion Battery PVP2020-2146 Non-Destructive Evaluation of Rpv Embrittlement by Means of the Thermoelectric Power Method PVP2020-2146 Non-Destructive Evaluation of Rpv Embrittlement by Means of the Thermoelectric Power Method PVP2020-21512 Nomad: Non-Destructive Evaluation System for the Inspection of Operation Induced Material Degradation in Nuclear Power Plants PVP2020-21581 Asset Integrity Management and Fitness-for-Service Assessment of a Pipe Elbow With Metal Loss PVP2020-21740 A New Framework for Damage Source Localization in Composite Scarf Joints Based on Acoustic Emission and Supervised Learning Peper Vide PVP2020-21064 A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves PVP2020-21064 A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves PVP2020-21092 Research on Flexible Phased Array Technique for Testing the Inserted Fillet Welds PVP2020-21094 Diagnosis of a Corrosion Process in Secondary Piping Structures in Nuclear Power Plants Peper Vide PVP2020-212184 Diagnosis of a Corrosion Process in Secondary Piping Structures in Nuclear Power Plants Peper Vide PVP2020-21224 A New Research on the Inspection of In-Service Fiber Reinforced Plastic Pipe PVP2020-21322 A New Research Method for Corrosion Defect in Metal Pipeline by Using Pulsed Eddy Current NDE-3: NDE Reliability - Modeling and Experimental Analysis Paper Vide Poes Vide Poes Vide Poes Vi	MF-9: Mechanistic modelling	of deformation and fracture	Paper	Vid
PVP2020-21650 Vistadam – a Physics Based Ductile Fracture Model for Pressurized Pipe Failure PVP2020-21746 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model Ves No-PVP2020-21746 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model Ves No-PVP2020-21746 An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model Ves No-PVP2020-21746 Popporostic Techniques and Applications Paper Vides PVP2020-21117 Experimental Studies of Typical Defects on Large Capacity Hoop-Wrapped Composite Cylinder of Steel Liner Based on X-Ray Digital Radiography Test Yes No-PVP2020-21248 Indentation Analysis of Mechanical Degradation of Single Crystal Linixmnycozo 2 Cathode in Li-lon Battery Yes No-PVP2020-21446 Non-Destructive Evaluation of Rpv Embrittlement by Means of the Thermoelectric Power Method Yes No-PVP2020-21512 Nomad: Non-Destructive Evaluation System for the Inspection of Operation Induced Material Degradation in Nuclear Power Plants Yes Yes PVP2020-21512 Asset Integrity Management and Fitness-for-Service Assessment of a Pipe Elbow With Metal Loss Yes PVP2020-21514 A New Framework for Damage Source Localization in Composite Scarf Joints Based on Acoustic Emission and Supervised Learning Yes Yes PVP2020-21040 A New Framework for Damage Source Localization in Composite Scarf Joints Based on Acoustic Emission and Supervised Learning Yes No-PVP2020-21064 A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves PVP2020-21064 A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves PVP2020-21091 Research on Flexible Phased Array Technique for Testing the Inserted Fillet Welds Yes Yes PVP2020-21092 Research on Elexible Phased Array Technique for Testing the Inserted Fillet Welds PVP2020-21184 Diagnosis of a Corrosion Process in Secondary Piping Structures in Nuclear Power Plants PVP2020-21184 Diagnosis of a Corrosion Process in Secondary Piping Structures in Nuclear Power Plants PVP2020-21184 A New Research	PVP2020-21213	Dynamic Performance Analysis of Interfacial Cracks Near an Eccentric Elliptical Hole in Piezoelectric Bi-Materials Under Incident Sh-Waves	Yes	Yes
PVP2020-21746 An Investigation into the Robustness of a Crystal Plasticity Finitie Element Model Postructive Examination NDE-1: Emerging NDE and Prognostic Techniques and Applications Paper Vid PVP2020-21117 Experimental Studies of Typical Defects on Large Capacity Hoop-Wrapped Composite Cylinder of Steel Liner Based on X-Ray Digital Radiography Test PVP2020-21258 Indentation Analysis of Mechanical Degradation of Single Crystal Linixmnycozo2 Cathode in Li-Ion Battery PVP2020-21446 Non-Destructive Evaluation of Rpv Embrittlement by Means of the Thermoelectric Power Method PVP2020-21512 Nomad: Non-Destructive Evaluation System for the Inspection of Operation Induced Material Degradation in Nuclear Power Plants PVP2020-21581 Asset Integrity Management and Fitness-for-Service Assessment of a Pipe Elbow With Metal Loss PVP2020-21740 A New Framework for Damage Source Localization in Composite Scarf Joints Based on Acoustic Emission and Supervised Learning PVP2020-21064 A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves PVP2020-21071 Research on Flexible Phased Array Technique for Testing the Inserted Fillet Welds PVP2020-211092 Research on Digital Radiographic Inspection of In-Service Fiber Reinforced Plastic Pipe PVP2020-21184 Diagnosis of a Corrosion Process in Secondary Piping Structures in Nuclear Power Plants PVP2020-21184 Research on the Inspection Parameters of Ultrasonic Phased Array for the Periodic Inspection of High-Pressure Hydrogen Vessel PVP2020-21322 A New Research on the Inspection Defect in Metal Pipeline by Using Pulsed Eddy Current NDE-1: NDE Reliability - Modeling and Experimental Analysis Paper Video Note: Paper Vid	PVP2020-21425	On Some Properties of Metals Manifested Under Complex Loading	Yes	No
Destructive Examination NDE-1: Emerging NDE and Prognostic Techniques and Applications PVP2020-21117 Experimental Studies of Typical Defects on Large Capacity Hoop-Wrapped Composite Cylinder of Steel Liner Based on X-Ray Digital Radiography Test Yes Yes PVP2020-21258 Indentation Analysis of Mechanical Degradation of Single Crystal Linixmnycozo2 Cathode in Li-lon Battery PVP2020-21446 Non-Destructive Evaluation of Rpv Embrittlement by Means of the Thermoelectric Power Method PVP2020-21512 Nomad: Non-Destructive Evaluation System for the Inspection of Operation Induced Material Degradation in Nuclear Power Plants PVP2020-21581 Asset Integrity Management and Fitness-for-Service Assessment of a Pipe Elbow With Metal Loss PVP2020-21740 A New Framework for Damage Source Localization in Composite Scarf Joints Based on Acoustic Emission and Supervised Learning PVP2020-21740 A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves PVP2020-21064 A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves PVP2020-21071 Research on Flexible Phased Array Technique for Testing the Inserted Fillet Welds PVP2020-21092 Research on Digital Radiographic Inspection of In-Service Fiber Reinforced Plastic Pipe PVP2020-21184 Diagnosis of a Corrosion Process in Secondary Piping Structures in Nuclear Power Plants PVP2020-21322 Research on the Inspection Parameters of Ultrasonic Phased Array for the Periodic Inspection of High-Pressure Hydrogen Vessel PVP2020-21322 A New Research Metal Pipeline by Using Pulsed Eddy Current Paper Vid Non-Destructive Examination of Structures of Steel Liner Paper Vid Paper Vid Non-Destructive Examination of Testing Paper Vid Paper Vid Non-Destructive Examination of Structures of Steel Liner of Steel Liner of Steel Liner Based on X-Ray Digital Radiographic Inspection of High-Pressure Hydrogen Vessel PVP2020-21322 A New Research Metal Pipeline by Using Pulsed Eddy Current Non-Destructive Examination of Street Paper Vid Non-Destructive Examination of Test	PVP2020-21650	Vistadam – a Physics Based Ductile Fracture Model for Pressurized Pipe Failure	Yes	Yes
PAPER VIDE-1: Emerging NDE and Prognostic Techniques and Applications PVP2020-21117 Experimental Studies of Typical Defects on Large Capacity Hoop-Wrapped Composite Cylinder of Steel Liner Based on X-Ray Digital Radiography Test PVP2020-21258 Indentation Analysis of Mechanical Degradation of Single Crystal Linixmnycozo2 Cathode in Li-Ion Battery PVP2020-21446 Non-Destructive Evaluation of Rpv Embrittlement by Means of the Thermoelectric Power Method PVP2020-21512 Nomad: Non-Destructive Evaluation System for the Inspection of Operation Induced Material Degradation in Nuclear Power Plants PVP2020-21581 Asset Integrity Management and Fitness-for-Service Assessment of a Pipe Elbow With Metal Loss PVP2020-21740 A New Framework for Damage Source Localization in Composite Scarf Joints Based on Acoustic Emission and Supervised Learning PVP2020-21740 A New Framework for Damage Source Localization in Composite Scarf Joints Based on Acoustic Emission and Supervised Learning PVP2020-21740 A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves PVP2020-21064 A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves PVP2020-21071 Research on Flexible Phased Array Technique for Testing the Inserted Fillet Welds PVP2020-21092 Research on Digital Radiographic Inspection of In-Service Fiber Reinforced Plastic Pipe PVP2020-21184 Diagnosis of a Corrosion Process in Secondary Piping Structures in Nuclear Power Plants PVP2020-21246 Research on the Inspection Parameters of Ultrasonic Phased Array for the Periodic Inspection of High-Pressure Hydrogen Vessel PVP2020-21322 A New Research Method for Corrosion Defect in Metal Pipeline by Using Pulsed Eddy Current Violation Area of The Security Structures and Experimental Analysis Paper Violation Area of The Security Structures and Experimental Analysis Paper Violation Area of The Security Structures and Experimental Analysis Paper Violation Area of The Security Structures in Metal Pipeline by Using Pulsed Eddy Current Paper Violation Area	PVP2020-21746	An Investigation Into the Robustness of a Crystal Plasticity Finitie Element Model	Yes	No
PVP2020-21117 Experimental Studies of Typical Defects on Large Capacity Hoop-Wrapped Composite Cylinder of Steel Liner Based on X-Ray Digital Radiography Test PVP2020-21258 Indentation Analysis of Mechanical Degradation of Single Crystal Linixmnycozo2 Cathode in Li-lon Battery PVP2020-21446 Non-Destructive Evaluation of Rpv Embrithement by Means of the Thermoelectric Power Method PVP2020-21512 Nomad: Non-Destructive Evaluation System for the Inspection of Operation Induced Material Degradation in Nuclear Power Plants PVP2020-21581 Asset Integrity Management and Fitness-for-Service Assessment of a Pipe Elbow With Metal Loss PVP2020-21740 A New Framework for Damage Source Localization in Composite Scarf Joints Based on Acoustic Emission and Supervised Learning PVP2020-21740 A New Framework for Damage Source Localization in Composite Scarf Joints Based on Acoustic Emission and Supervised Learning PVP2020-21064 A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves PVP2020-21064 A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves PVP2020-21092 Research on Flexible Phased Array Technique for Testing the Inserted Fillet Welds PVP2020-21092 Research on Digital Radiographic Inspection of In-Service Fiber Reinforced Plastic Pipe PVP2020-21184 Diagnosis of a Corrosion Process in Secondary Piping Structures in Nuclear Power Plants PVP2020-21246 Research on the Inspection Parameters of Ultrasonic Phased Array for the Periodic Inspection of High-Pressure Hydrogen Vessel PVP2020-21322 A New Research Method for Corrosion Defect in Metal Pipeline by Using Pulsed Eddy Current PAper Vid NDE-3: NDE Reliability - Modeling and Experimental Analysis	-Destructive Examination			
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PVP2020-21512 Nomad: Non-Destructive Evaluation System for the Inspection of Operation Induced Material Degradation in Nuclear Power Plants PVP2020-21581 Asset Integrity Management and Fitness-for-Service Assessment of a Pipe Elbow With Metal Loss PVP2020-21740 A New Framework for Damage Source Localization in Composite Scarf Joints Based on Acoustic Emission and Supervised Learning PVP2020-21740 A New Framework for Damage Source Localization in Composite Scarf Joints Based on Acoustic Emission and Supervised Learning PVP2020-21064 A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves PVP2020-21071 Research on Flexible Phased Array Technique for Testing the Inserted Fillet Welds PVP2020-21092 Research on Digital Radiographic Inspection of In-Service Fiber Reinforced Plastic Pipe PVP2020-21184 Diagnosis of a Corrosion Process in Secondary Piping Structures in Nuclear Power Plants PVP2020-21246 Research on the Inspection Parameters of Ultrasonic Phased Array for the Periodic Inspection of High-Pressure Hydrogen Vessel PVP2020-21322 A New Research Method for Corrosion Defect in Metal Pipeline by Using Pulsed Eddy Current Paper Vid NDE-3: NDE Reliability - Modeling and Experimental Analysis	PVP2020-21258		Yes	No
PVP2020-21581 Asset Integrity Management and Fitness-for-Service Assessment of a Pipe Elbow With Metal Loss PVP2020-21740 A New Framework for Damage Source Localization in Composite Scarf Joints Based on Acoustic Emission and Supervised Learning Yes Yes PVP2020-21064 A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves PVP2020-21071 Research on Flexible Phased Array Technique for Testing the Inserted Fillet Welds PVP2020-21092 Research on Digital Radiographic Inspection of In-Service Fiber Reinforced Plastic Pipe PVP2020-21184 Diagnosis of a Corrosion Process in Secondary Piping Structures in Nuclear Power Plants PVP2020-21246 Research on the Inspection Parameters of Ultrasonic Phased Array for the Periodic Inspection of High-Pressure Hydrogen Vessel PVP2020-21322 A New Research Method for Corrosion Defect in Metal Pipeline by Using Pulsed Eddy Current Paper Vid NDE-3: NDE Reliability - Modeling and Experimental Analysis Paper Vid	PVP2020-21446	Non-Destructive Evaluation of Rpv Embrittlement by Means of the Thermoelectric Power Method	Yes	No
PVP2020-21581 Asset Integrity Management and Fitness-for-Service Assessment of a Pipe Elbow With Metal Loss PVP2020-21740 A New Framework for Damage Source Localization in Composite Scarf Joints Based on Acoustic Emission and Supervised Learning NDE-2: NDE Techniques and Applications for Petrochemical and Power Plant Components PVP2020-21064 A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves PVP2020-21071 Research on Flexible Phased Array Technique for Testing the Inserted Fillet Welds PVP2020-21092 Research on Digital Radiographic Inspection of In-Service Fiber Reinforced Plastic Pipe PVP2020-21184 Diagnosis of a Corrosion Process in Secondary Piping Structures in Nuclear Power Plants PVP2020-21246 Research on the Inspection Parameters of Ultrasonic Phased Array for the Periodic Inspection of High-Pressure Hydrogen Vessel PVP2020-21322 A New Research Method for Corrosion Defect in Metal Pipeline by Using Pulsed Eddy Current Paper Vid NDE-3: NDE Reliability - Modeling and Experimental Analysis Paper Vid PVES 1965 PVES 2965 PVES 2967 PVES	PVP2020-21512	Nomad: Non-Destructive Evaluation System for the Inspection of Operation Induced Material Degradation in Nuclear Power Plants	Yes	Yes
NDE-2: NDE Techniques and Applications for Petrochemical and Power Plant Components PVP2020-21064 A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves PVP2020-21071 Research on Flexible Phased Array Technique for Testing the Inserted Fillet Welds PVP2020-21092 Research on Digital Radiographic Inspection of In-Service Fiber Reinforced Plastic Pipe PVP2020-21184 Diagnosis of a Corrosion Process in Secondary Piping Structures in Nuclear Power Plants PVP2020-21246 Research on the Inspection Parameters of Ultrasonic Phased Array for the Periodic Inspection of High-Pressure Hydrogen Vessel PVP2020-21322 A New Research Method for Corrosion Defect in Metal Pipeline by Using Pulsed Eddy Current NDE-3: NDE Reliability - Modeling and Experimental Analysis Paper Vid	PVP2020-21581	Asset Integrity Management and Fitness-for-Service Assessment of a Pipe Elbow With Metal Loss		Yes
PVP2020-21064 A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves PVP2020-21071 Research on Flexible Phased Array Technique for Testing the Inserted Fillet Welds PVP2020-21092 Research on Digital Radiographic Inspection of In-Service Fiber Reinforced Plastic Pipe PVP2020-21184 Diagnosis of a Corrosion Process in Secondary Piping Structures in Nuclear Power Plants PVP2020-21246 Research on the Inspection Parameters of Ultrasonic Phased Array for the Periodic Inspection of High-Pressure Hydrogen Vessel PVP2020-21322 A New Research Method for Corrosion Defect in Metal Pipeline by Using Pulsed Eddy Current NO NDE-3: NDE Reliability - Modeling and Experimental Analysis Pager Vid	PVP2020-21740	A New Framework for Damage Source Localization in Composite Scarf Joints Based on Acoustic Emission and Supervised Learning	Yes	Yes
PVP2020-21071 Research on Flexible Phased Array Technique for Testing the Inserted Fillet Welds PVP2020-21092 Research on Digital Radiographic Inspection of In-Service Fiber Reinforced Plastic Pipe PVP2020-21184 Diagnosis of a Corrosion Process in Secondary Piping Structures in Nuclear Power Plants PVP2020-21246 Research on the Inspection Parameters of Ultrasonic Phased Array for the Periodic Inspection of High-Pressure Hydrogen Vessel PVP2020-21322 A New Research Method for Corrosion Defect in Metal Pipeline by Using Pulsed Eddy Current No NDE-3: NDE Reliability - Modeling and Experimental Analysis Pager Vid	NDE-2: NDE Techniques and	Applications for Petrochemical and Power Plant Components	Paper	Vid
PVP2020-21092 Research on Digital Radiographic Inspection of In-Service Fiber Reinforced Plastic Pipe PVP2020-21184 Diagnosis of a Corrosion Process in Secondary Piping Structures in Nuclear Power Plants PVP2020-21246 Research on the Inspection Parameters of Ultrasonic Phased Array for the Periodic Inspection of High-Pressure Hydrogen Vessel PVP2020-21322 A New Research Method for Corrosion Defect in Metal Pipeline by Using Pulsed Eddy Current No NDE-3: NDE Reliability - Modeling and Experimental Analysis Paper Vid	PVP2020-21064	A Finite Element Simulation Study on Reducers Based on Ultrasonic Guided Waves	Yes	No
PVP2020-21092 Research on Digital Radiographic Inspection of In-Service Fiber Reinforced Plastic Pipe PVP2020-21184 Diagnosis of a Corrosion Process in Secondary Piping Structures in Nuclear Power Plants PVP2020-21246 Research on the Inspection Parameters of Ultrasonic Phased Array for the Periodic Inspection of High-Pressure Hydrogen Vessel PVP2020-21322 A New Research Method for Corrosion Defect in Metal Pipeline by Using Pulsed Eddy Current Paper Vid NDE-3: NDE Reliability - Modeling and Experimental Analysis	PVP2020-21071	Research on Flexible Phased Array Technique for Testing the Inserted Fillet Welds	Yes	Yes
PVP2020-21184 Diagnosis of a Corrosion Process in Secondary Piping Structures in Nuclear Power Plants PVP2020-21246 Research on the Inspection Parameters of Ultrasonic Phased Array for the Periodic Inspection of High-Pressure Hydrogen Vessel PVP2020-21322 A New Research Method for Corrosion Defect in Metal Pipeline by Using Pulsed Eddy Current No NDE-3: NDE Reliability - Modeling and Experimental Analysis Paper Vid	PVP2020-21092	Research on Digital Radiographic Inspection of In-Service Fiber Reinforced Plastic Pipe	Yes	Yes
PVP2020-21246 Research on the Inspection Parameters of Ultrasonic Phased Array for the Periodic Inspection of High-Pressure Hydrogen Vessel PVP2020-21322 A New Research Method for Corrosion Defect in Metal Pipeline by Using Pulsed Eddy Current No NDE-3: NDE Reliability - Modeling and Experimental Analysis Paper Vid	PVP2020-21184			Yes
PVP2020-21322 A New Research Method for Corrosion Defect in Metal Pipeline by Using Pulsed Eddy Current Yes No NDE-3: NDE Reliability - Modeling and Experimental Analysis Paper Vid	PVP2020-21246	Research on the Inspection Parameters of Ultrasonic Phased Array for the Periodic Inspection of High-Pressure Hydrogen Vessel		Yes
NDE-3: NDE Reliability - Modeling and Experimental Analysis Paper Vid	PVP2020-21322	A New Research Method for Corrosion Defect in Metal Pipeline by Using Pulsed Eddy Current		No
DVD2020 21105 Percent on the Maggirement Accuracy of Ultraconic Placed Array Time of Elight Method	NDE-3: NDE Reliability - Mode		Paper	Vid
F VF 2020-2 F100 Nessearch on the wiedsurement Accuracy of Offidsornic Fridsed Array Time-of-Fright wiethou	PVP2020-21105	Research on the Measurement Accuracy of Ultrasonic Phased Array Time-of-Flight Method	Yes	Yes

erations, Applications, & Co	omponents		
OAC-1: Safety, Reliability, and I		Paper	Video
PVP2020-21123	Evaluation of Pressure-Temperature Limit Curve Considering Revised Stress Intensity Factor Method	Yes	No
PVP2020-21135	Mid-Term Energy Consumption Prediction of Crude Oil Pipeline Pump Unit Based on Gscv-Svm	Yes	Yes
PVP2020-21178	Surge Analysis of Typical Working Scenarios of Lng Shipment Piping System in a Port of North Africa	Yes	No
PVP2020-21178	Gas Supply Reliability Analysis of a Natural Gas Pipeline System Considering the Effects of Demand Side Management	Yes	Yes
PVP2020-21210	A Hybrid Pso-Bpnn Model Approach for Crude Oil Pipeline Electrical Energy Consumption Forecasting	Yes	Yes
PVP2020-21227	Prediction of Pipeline Corrosion Rate Model Based on Multi-Core Learning	Yes	Yes
PVP2020-21336	An Alternative Corrosion Risk Assessment Method for Industrial Pipelines in Natural Gas Purification Plant	Yes	No
PVP2020-21376	Using Machine Learning Tools for Forecasting Natural Gas Market Demand	Yes	Yes
PVP2020-21597	Maintenance Optimization: Finding the Best Frequencies of Maintenance Activities	Yes	Yes
PVP2020-21694	Verification of Stress Model in Dissimilar Materials of Varying Cladded Pipes Using a Similar Cladded Plate Model	Yes	Yes
PVP2020-21796	The Process of Creating and Reviewing a Transient Surge Computer Model	Yes	Yes
PVP2020-21796 PVP2020-21823	Corrosion Behavior of Pipeline Steel With Stray Current Interference at Coating Defects	Yes	Yes
DAC-2: Qualification and Testin		Paper	Vide
PVP2020-21087	Structural Evaluation With Elastic and Inelastic Analysis Methods on a High Temperature Storage Tank Subjected to Static and Dynamic Loadings	Yes Paper	No Vide
AC-3: Monitoring, Diagnostics			
PVP2020-21102	Modeling and Control of Real Flow Calibration System	<u>Yes</u>	Yes
PVP2020-21154	Application of Transient Electromagnetic Method in Urban Buried Gas Pipeline Detection	<u>Yes</u>	No
PVP2020-21862	A Case Study Aiming to Mitigate Pipe Vibrations Using Cfd & Dynamic Stress Analysis Approach	Yes	Yes
PVP2020-21863	Challenging the Industry Practices of Temperature Distribution, Sif and Its Effects on Piping Design	Yes	Yes
	ation of Radioactive and other Hazardous Materials	Paper	Vide
PVP2020-21018	A Simple Method to Estimate Airborne Release Fractions Associated With the Pressurized Release of Radioactive Materials	<u>Yes</u>	Yes
PVP2020-21045	Deployment of Laser Peening to Prevent Cisco of Nuclear Fuel Dry Storage Canisters	Yes	No
PVP2020-21083	Mechanical and Thermal Assessment by Bam of a New Package Design for the Transport of Snf From a German Research Reactor	Yes	No
PVP2020-21096	Mechanical Shock and Vibration Analysis of Spent Nuclear Fuel Carried by the Atlas Railcar	Yes	Yes
PVP2020-21116	Temperature Prediction of a Used Nuclear Fuel Cask With Different Gas Backfills	Yes	Yes
PVP2020-21245	Outcomes of Three Large Scale Fire Reference Tests Conducted in Bam Fire Test Facility	Yes	Yes
PVP2020-21259	Structural Analysis Approach for the Defense Programs Package 3 (Dpp-3)	Yes	No
PVP2020-21270	Numerical Modelling of Compression Stress Relaxation and Compression Set of Elastomer O-Rings During Aging	Yes	Yes
PVP2020-21280	Thermal Analysis of a 9977 Shipping Package During a Kac Fire Accident	Yes	No
PVP2020-21281	Thermal Analysis of a 9977 Shipping Package During a Fire-Drop-Smoldering Accident	Yes	No
PVP2020-21283	Secondary Impacts and Their Effects on Closure Lid Bolt Stresses in a Generic Spent Nuclear Fuel Shipment Cask	Yes	No
PVP2020-21324	Prediction of Leakage Rate of Liquefied Gas Storage Tanks and Numerical Simulation of Leakage Process	Yes	Yes
PVP2020-21508	Thermal Modeling of the High Burnup Demonstration Research Project Cask	Yes	No
PVP2020-21682	Evaluation of Hydrogen Gas Generation and Permeation in the 9979 Type AF Shipping Package	Yes	No
PVP2020-21705	Analysis of Spent Nuclear Fuel Multipurpose Canister Dynamics During Rail Transportation	Yes	Yes
PVP2020-21785	Effects of Post-Manufacturing Process on Material Properties of 3d-Printed Pressure Vessels	Yes	No
PVP2020-21850	DROP TESTS ASSESSMENT OF INTERNAL SHOCK ABSORBERS FOR PACKAGES LOADED WITH ENCAPSULATIONS FOR DAMAGED SPENT NUCLEAR FUEL		Yes
AC-5: Pumps and Valves		Paper	Vide
PVP2020-21063	Relief Valve Impact Analysis	Yes	Yes
PVP2020-21285	An Overview of Asme Class 2 and 3 Valve Design and Service Loading Rules	Yes	Yes
PVP2020-21289	A Case Study: Balanced Globe Valve Load Sensitive Behavior Upon Opening	Yes	Yes
PVP2020-21315	Check Valves in Nuclear Power Plants – Asme Om Code Requirements and Industry Compliance	Yes	Yes
PVP2020-21346	Cfd Analysis of a Piping-Pressure Safety Valve System Working in Gas/vapor Service	Yes	No
PVP2020-21835	Development of Valve Performance Qualification Methodology and Testing	Yes	Yes
•	ance of Pressure Vessels, Heat Exchangers, Piping and Supports	Paper	Vide
PVP2020-21074	Crude Furnace Floor Creep Assessment and Remaining Life Assessment Due to Hot Spots	Yes	Yes
PVP2020-21128	The Research on the Stress Analysis of Overhead Steam Pipeline	Yes	No
D) /D0000 04400	Stress Analysis of In-Service Flare Gas Pipeline System and Equipment Nozzle	Yes	No
PVP2020-21130			
PVP2020-21130 PVP2020-21396 PVP2020-21593	Thermal Fatigue Cracking Due to Intermittently Flowing Drain Water in Steam Piping Fatigue Behavior of Metallic Pipes With Through-Wall Corrosion Damage Repaired With Bonded Metallic Patches	Yes Yes	No <u>Yes</u>

PVP2020-21103 High Flack Reactor Continued Safe Operation – Time Limited Ageing Analyses PVP2020-211302 High Frequency Pallgue and Using Frequency Domain Tachniques PVP2020-21393 A Hybrid Fatigue Methodology for Civil Ageing Management and Concrete for Llo/cso Based on International Standards and Engineering Judgement. Yes PVP2020-21394 Safe An Assessment Methodology for Civil Ageing Management and Concrete for Llo/cso Based on International Standards and Engineering Judgement. Yes PVP2020-21394 Seismic Margin PVP2020-21394 Seismic Margin PVP2020-21394 Seismic Margin PVP2020-21394 Sudy on Vibration Miligation of Connected Cabinets Storing Electronics Subjected to Seismic Input Using Elasto-Plastic Damper PVP2020-21394 Sudy on Vibration of the Bottom Plate of the Cylindical Steal Transk Under Steady-State Response of Tank Rocking Motion PVP2020-21494 Juli Public Medical Steal Tanks Under Steady-State Response of Tank Rocking Motion PVP2020-21496 Sudy on Vibration of the Bottom Plate of the Cylindical Steal Tanks Under Steady-State Response of Tank Rocking Motion PVP2020-21496 Sudy on Vibration of the Bottom Plate of the Cylindical Steal Tanks Under Steady-State Response of Tank Rocking Motion PVP2020-21496 Comparison of 316in Ratcheting Bottomation of Land Plang PVP2020-21496 Comparison of 316in Ratcheting Bottomation of Land Engineering Publication Province Publication Publication Publication Publication Publication Steal Damper of Publication Pu
PVP2020-21392 High Frequency Fatgue and Using Frequency Domain Techniques PVP2020-2188 Addressing Low Pressure Transients PVP2020-2188 Addressing Low Pressure Transients PVP2020-2188 Addressing Low Pressure Transients PVP2020-2188 PVP2020-21
PVP2020-21638 An Assessment Methodology for Civil Ageing Management and Concrete for Lto/cso Based on International Standards and Engineering Judgement. Yes mic Engineering SE-1: Entraptuse Resistance and Seismic Margin PVP2020-21934 Selsmic Failure Modes and Loss of Containment in Industrial Equipment PVP2020-21935 Subuy on Vibration Militigation of Connected Cabinets Storing Electronics Subjected to Seismic Input Using Elasto-Plastic Damper PVP2020-21934 Subuy on Vibration Militigation of Connected Cabinets Storing Electronics Subjected to Seismic Input Using Elasto-Plastic Damper PVP2020-21948 Uplift Deformation of the Bottom Plate of the Cylindrical Steel Tanks Under Steady-State Response of Tank Rocking Motion PVP2020-21941 Uplift Deformation of the Bottom Plate of the Cylindrical Steel Tanks Under Steady-State Response of Tank Rocking Motion PVP2020-21940 Uplift Deformation of Storage Tanks Caused by Severe Strong Ground Motions Due to the 2018 Hokkaido, Japan Iburi-Tobu Earthquake (mw.6.5) PVP2020-21940 Comparison of 3 Islin Ratcheting Boundary at Room Temperature and 350°C PVP2020-21940 Multivasia Ratcheting Deformation of 22cnd18.12 at Elevated Temperatures PVP2020-21930 Research and Development of Three-Dimensional Isolation System for Sodium—Cooled Fast Reactor (Part 6: development of High Speed Oil Damper for Isolated Building) PVP2020-21798 Research and Development of Three-Dimensional Isolation System for Sodium—Cooled Reactor Part 5: Isolation Performance Applied to Reactor Building) PVP2020-21798 Study on Multifunctional Base Isolation System Using Air-Floating Technique PVP2020-21798 Papara and Vibration Control Papara PVP2020-21268 Pasase Control Techniques for Seismic Protection of Chemical Plant Equipment PVP2020-21269 Pasase Control Techniques for Seismic Protection of Chemical Plant Equipment PVP2020-21269 Pasase Control Techniques for Seismic Protection of Chemical Plant Equipment PVP2020-21269 Study on the Predictive Evaluation Method for Liquid Surface Shape and Flow
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PVP2020-21849 Bending Deformation Performance of Underground Pipe for Power Transmission Yes
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PVP2020-21019 Examples of Materials Quality Issues No
PVP2020-21044 Material Properties of Hiped Sa-508 No
PVP2020-21149 A Hybrid Digital-Twin Platform for Sequence Design in Welded Structures No
PVP2020-21219 Effect of Electrochemical Charging on the Formation of Cracks and Blisters for 2.25cr-1mo-0.25v No
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PVP2020-21496 Determination of Orthotropic Material Properties Representative of the Compact Heat Exchanger Core for Efficient Global Thermo-Mechanical Analysis No
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