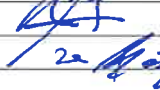


Attachment	26-09	Service	Supply and dedication of a high-capacity low-pressure air accumulator system for actuating the AOV isolation valve in the CVCS letdown line
Item	Table of Contents		
1.	Background and Description of the Problem	As part of modification 1320-CS-L NEK will install additional AOV isolation valve in the CVCS letdown line to prevent loss of RCS inventory following a total loss of AC power. In an ELAP, coolant can be lost through the CVCS letdown path, specifically via relief valve 8120 discharge to the PRT tank. If letdown isolation is not established within one hour, continued coolant loss could ultimately challenge core cooling. The current design therefore requires automatic isolation of the letdown line during ELAP conditions. During preparation of the modification package, NEK identified a conflicting operating requirement during safe shutdown following an earthquake, assuming a total loss of Instrument Air (IA). In this scenario, letdown flow is required to maintain primary system pressure using solid pressurizer operation, which depends on balancing charging and letdown flow. This operating mode is also routinely used during plant outages. The newly installed letdown isolation AOV is designed to fail closed (FC). While this supports the ELAP safety function by isolating potential leakage paths, it prevents establishment of the required letdown flow when IA is unavailable. As a result, a secondary high-capacity low-pressure air accumulator system for the letdown isolation AOV must be provided, enabling valve operation during post-earthquake safe shutdown and Emergency Operating Procedures while retaining its ELAP isolation function.	
2.	Scope of Service	Supply of safety related high-capacity, low-pressure air accumulator system supporting operation of the CVCS letdown isolation AOV at the Krško Nuclear Power Plant. The Supplier is responsible for the design, material procurement, manufacturing, inspection, testing, cleaning, and packaging of all equipment within the specified scope. Detailed air accumulator system requirements are provided in KRK-PV100-SP-CD-000001 Rev 0: "Local Air Accumulator Design Specification for CVCS Letdown Isolation Air Operated Ball Valve at Krsko", The Local Air Accumulator is a secondary air supply system for operation of the letdown isolation AOV within the Krško CVCS. The system consists of and are to be furnished by the supplier: • A 60-gallon air tank • A check valve • Three ball valves • A pressure gauge • A three-way tee fitting • Compression fittings • Straight fittings • 1/2-inch tubing • Bolting/fasteners for mounting The following services shall be furnished by the supplier: • Assembly of select equipment into the Local Air Accumulator • Commercial Dedication of the Local Air Accumulator • Commercial Dedication of the Check Valve • Commercial Dedication of the Ball Valves	
3.	Safety Classification	Nuclear Safety Related	
4.	Project Input Data	WCAP-19190-P CVCS Letdown Isolation AOV Local Air Accumulator Feasibility Study KRK-PV100-SP-CD-000001 Rev 0: "Local Air Accumulator Design Specification for CVCS Letdown Isolation Air Operated Ball Valve at Krsko"	
5.	Design Control Program	The report on the work performed must be issued in English. Communication takes place via e-mail and telephone.	

6.	Codes, Standards and Criteria	Not limited to: Codes of Nuclear Regulation 10CFR50/Appendix B ASME NQA-1, 2015, Quality Assurance Program Requirements for Nuclear Facility Applications ASME Boiler and Pressure Vessel Code - Section II, 2023 ASME Boiler and Pressure Vessel Code - Section IX, 2023 ASME Boiler and Pressure Vessel Code - Section VIII, 2023 Industrial codes and standards ISO 9001, Quality management systems — Requirements NEK Technical Specifications SP-S702, Revision 12, “Seismic Analysis, Testing, and Documentation” SP-G536A, Revision 1, “Nuclear Safety Class Piping”		
7.	Affected Systems and Equipment	IA		
8.	Schedule Requirement	Delivery date to NEK of the high-capacity low-pressure air accumulator system: - 1-Feb-2027		
9.	Contact Persons	NEK:	Anton Preskar E: anton.preskar@nek.si T: +386 7 4802 459	
10.			Signature:	Date:
	Prepared by:	Anton Preskar		21/09/2026
	QA:(for AQ & SR)	Mario Mihalina		21/09/2026
	Approved by:	Peter Jan		21.09.2026
SP-ES5110, Rev. 0, Attachment 26-09				