

NAČRT UKREPOV PVT/FME (PVT/FME PLAN)

Projekt: SG ECT RE-21
Revizija: 0

General FME requirements for ECT SG in Outage 2021.

Preprečitev naj bo vodilo!

Načrt ukrepov PVT (PVT PLAN) velja za imenovan projekt. Namen Načrta ukrepov PVT je vzpostavitev in nadzor procesa PVT na celotnem območju izvedbe projekta, ki je potencialno ogroženo z neželenim vnosom tujkov.

Z Načrtom ukrepov PVT morajo biti seznanjeni vsi udeleženci izvedbenega procesa!

	Podpis:	Datum:
Pripravil Vodja projekta/RE/DE: Pušnik	L. Pušnik	8.5.2020
Pregledal Vodja OE: Vučajnk		
Pregledal PVT koordinator NEK: Živič		
Pregledal Vodja TO.VZ: Planinc		
Odobril Direktor TO: Gluhak		

NEK Krško

Načrt ukrepov PVT/FME / ET SG 2021

1.	Type of work on component or system in NEK:	U tubes inspection in SG #1 and SG #2.
2.	System window:	- RC62 SG#1 - RC63 SG#2 <i>Duration for both from 16.04.2021 20:00:00 to 20.04.2021 10:00:00</i>
3.	Work order No:	151432 ET SG#1 151449 ET SG#2
4.	Scope of activity:	<i>During ET inspection from water chambers in SGs:</i> - ET probes and its parts, Manipulator parts - Possible particulates from other areas - Dust
5.	Purpose of FME plan:	- Awareness of all operators, knowledge and compliance with requirements of procedures and recommendations - Application and control of testing equipment, consistent use of FME cover for primary chambers. - The inspection is carried out continuously within the specified system window, during which time all operators of activities are indebted to respect FME measures.
6.	Responsible persons for the implementation of the FME measures:	The responsible person for FME is the coordinator of Work Order (WO), which is also FME coordinator. As the work is carried out continuously for 86 hours, the coordinators will change. The holder of the entire PVT plan and the responsible person for the implementation of PVT measures is Aleš Vučajnk, leading ISI engineer.
7.	General requirements for establishing FME control:	<ul style="list-style-type: none"> • LEVEL 3, Platform under SG 1 and 2 • LEVEL 2, With open manways on SG 1 and 2 and protected with FME covers • LEVEL 1, With open FME covers on SG1 and SG2
8.	General instructions for applying the FME measures:	In the above mentioned activities, strictly follow the instructions in the ADP-1.1.101 Procedure (Foreign Material Exclusion) and ADP 1.1.128 (Control of Implementation of Execution Activities with the purpose of preventing foreign material intrusion into systems or components) and to add Annexes 6.1 and 6.2 in ADP 1.1.128.

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The following initial state is expected: Manways on SG #1 and #2 are open, Nozzle Dams are installed with associated FME covers, and ventilation is installed. *There is a possibility that radiation protection doors will be installed on the water chambers manways. In any case, rules to be applied for FME prevention are equal.*

The individual FME cover consists of a two-part cover and anchor bolts.

Installation of equipment-assembly.

Before installing the equipment, the FME Coordinator must inspect the equipment; make a photo of the equipment and a general overview for possible poorly attached parts of equipment. When installing the equipment, the FME covers are removed and the manipulator assembly is mounted on the tube sheet according to the contractor's assembly / disassembly procedure. After verifying the installation, the FME cover is placed back on Manway.

Inspection - data collection.

During the inspection itself, it is not expected to intervene in the water chambers, except in case of removal of the CL-HL manipulator or failure. The main consumables are ET probes. The probes are switched on equipment that is mounted on the platform (probe pusher). During the collection of data, the operator keeps a record of the used probes and a log of their changes. At the same time, the reason for the change (change of plan, cancellation ...) and physical integrity after exchange are recorded. After completion of the inspection, records are handed over to the NEK representative. All the contaminated probes previously recorded on the ADP - 1.1.128 Procedure (CONTROL OF THE MATERIAL CARRIED IN THE FME AREA), Annex 6.1 and 6.2 or part of the WO. On this occasion, they are counted again and checked for their physical integrity.

Dismantling of the equipment.

When disassembling, the FME cover is removed and the manipulator must be disassembled following the contractors procedure. The equipment is inspected for the purpose of detecting the possible missing parts (for assistance, a photo may be taken before installation of the equipment). FME cover put back on to protect entrance to manways. The final state must be the same as the initial one.

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9.	Controlling the use of wire brushes (manual and rotating):	That kind of equipment will not be used.
10.	Maintenance of order and cleanliness on the site:	For all activities on SG # 1 and # 2, all possible impurities and unnecessary material should be removed immediately.
11.	Additional training requirements:	During the preparations for the implementation and immediately before the start of work, there will be presentation of the purpose and requirements of the FME plan and the manner of implementing the FME measures.
12.	FME inspection/closing:	After completion of the dismantling of equipment, the representative of TO.VZISI, who also acts as the and coordinator for FME independently opens the FME covers and visually checks the properly abandoned state of the SG # 1 and # 2. All records and equipment used are checked.
13.	Measures foreseen in case of loss of FME control:	Record the deviations and, if necessary, stop the work. If it is determined that the probe has broken (in the case of the demounting of the probe it is found that a part of the probe is missing), the missing part must be found and removed after the dismantling of the equipment has been completed. What is most appropriate, given the circumstances and the limited time for carrying out inspection.
14.	Special FME equipment required:	Special FME equipment is not provided. FME covers are part of the equipment that physically prevents-limits the entry of impurities into the SG 1 and 2.
15.	FME inspections:	Minimum execution of one control after the equipment is installed and control of the spent probes.
16.	References:	Implementing process for the implementation of activities: <ul style="list-style-type: none"> • Installation and disassembly of the manipulator • Collecting ECT data (For this point are applicable procedures from the vendor-not known yet)
17.	Appendices:	N/A