

KOU Head of Departments Managers

Date:

13 October 2021

Enquiries:

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### **KOEBERG 10 YEAR OUTAGE PLAN – REVISION 73**

Attached is the *Koeberg 10-year **Outage** plan* which is an interpretation of Revision 73 of the *Koeberg 10-year **Production** plan*, Revision 73 dated 7 October 2021.

The purpose of the *Koeberg 10-year **Outage** plan* is to give the organization an indication of the Outage duration targets required for Koeberg to achieve its Outage business plan goals. The 10-year **Production** plan does not give an accurate picture of the actual work window durations in an outage and can easily mislead line groups when planning for future outages.

The *Koeberg 10-year **Outage** plan* is a quick reference of future outages and indicates a high level overview the outage's information, viz. type of outage, reactor water level, start date, planned duration, approximate reactor defueled maintenance window, approximate electrical train and approximate feed water windows (see Attached Plan).

Please feel free to contact Work Management for additional information.

Yours faithfully



Noxolo Mabumbulu  
**OUTAGE DEPARTMENT MANAGER**

# Koeberg 10 Year Outage Plan

Revision 073

Outage	225	126	226	127	227	128	228	129	229	130	230
Outage Type	Maintenance & SGR	Maintenance, LTO & SGR	Maintenance & LTO	10 yearly & LTO	10 yearly	Refuel	Refuel	Maintenance	Maintenance	Refuel	Refuel
Primary level	NLL	NLL	NLL	NLL	NLL	19.5m	19.5m	NLL	NLL	19.5m	19.5m
Start Date	3 Jan 2022	26 Sept 2022	21 Aug 2023	8 Jul 2024	14 Apr 2025	23 Mar 2026	18 Jan 2027	27 Sept 2027	31 July 2028	23 April 2029	25 Feb 2030
Planned Duration (Days)	130	130	96	112	112	38	38	48	48	28	28
RCD Window (Days)	85	85	66	75	75	8	8	18	18	3	3
Electrical/SEC Trains (Days)	A 35 B 35	A 35 B 35	A 26 B 26	A 30 B 30	A 30 B 30	A 3 B 3	A 3 B 3	A 8 B 8	A 8 B 8	A 2 B 2	A 2 B 0
Feedwater Window (Days)	89	89	72	84	84	29	29	36	36	22	22

The above information is based on Rev 73 of Koeberg's 10-year production plan. The duration of the maintenance windows are the windows from PTW issue to PTW sign-off. Outage planned durations show desired durations as per the baseline schedule on routine work (**excluding** modifications). Outages within the T-12 timescale are **committed** durations inclusive of Modifications and non-routine work.

More detailed information can be found in the Outage Graphic Plan for each outage. These graphic plans are located on the Outage Management G-drive showing all the standard maintenance windows.


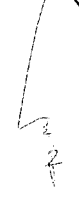
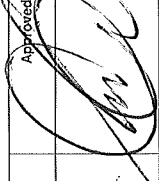
All work and modifications must be planned to fit into the above windows.

**Key Outage Preparation Milestone as per KLA-023:**

T-24: Final date for all work scope to be identified, Engineering & Modifications

T-18: Final date for all Engineering work to be in SAP – Engineering Scope Freeze

T-14: Freeze date for ALL work (all operations in SAP)

Completed	Authorised	Approved
		
N. Gwanxu Outage Execution	N. Mabumbulu Work Management HOD	M. Valaitham Plant Manager
2021-10-13	2021-10-13	2021-10-13