### **Execution / Remediation Technical Plan**

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| Device / Server / Application / Database Details | Apply patch on BAWPRD/MFSPRD database  /DB SERVER : 10.24.108.4/5 |
| IP Address / Host Name / Module / Interface: | 10.24.108.4/5 (BAWPRD/MFSPRD) |
| Purpose of Change | Quarterly patch apply |
| Change Executor | Asif Jamil |
| Escalation Level-1 | Mukesh Kumar |
| Escalation Level -2 | Dhirender Singh |
| Escalation Level -3 | Sanjeev Balyan |
| Escalation Level -4 |  |

1. **Pre-Requisite Activities:**

**Take the backup of oracle\_home.**

1. **Execution Plan during Change Implementation Window.**

WAISL-DATABASE Team: apply patch on BAWPRD/MFSPRD Database servers (10.24.108.4/5)

Step1- download oracle 19c patch of latest quarter (n-1) for version 19.23.0.0.0

Step2- Backup of ORACLE\_HOME binaries.

tar -cvf oracle\_home.tar $ORACLE\_HOME

Step3-set path OPatch

export Path=$ORACLE\_HOME/OPatch:$PATH

Step4- check OPatch lsinventory and OPatch version

opatch lsinventory

opatch version

Step5- OPatch utility version 12.2.0.1.41 or later to apply this patch, if it is not download OPatch latest.

Step6- copy the patch 6880880 to ORACLE\_HOME and rename the old OPatch and unzip the download patch.

Step7- Check opatch version again

opatch version -- **12.2.0.1.43**

Step8- set path export PATH=$PATH:/usr/ccs/bin

Step9- unzip patch

step10- Stop database and listener

Step11- go to patch location and apply patch

Step12- after successfull apply patch , start the database and listener.

Step13- run below command at os level

$ ./datapatch -verbose

1. **Roll-back / Remediation Plan**

We have roll backup plan in case of failure patch,

Step1 -roll back apply patch with below command

opatch rollback

Step2- run datapatch verbose command for deinstall SQL deployment for the patch being deinstalled.