

5th IAEA Expert Mission on National Dose Register

30/01 - 03/02 2017

Summary and Way Forward



*For the protection of persons, property
and the environment against nuclear damage.*

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CONTENTS

- Overview of activities undertaken during Mission
- Proposed way forward



Steering Committee Meeting

- Various presentations by NNR on the current state of the project
- Feedback on the usage of the system
- Discussion about possible improvements and new features
- Discussion about the legal aspects



Steering Committee Meeting

- Discussed compliance and following up on directives issued by NNR
- Confirmed that that first NDR phase is just to collect the data
- Exact usage/scope of the data will be decided later on in consultation with the NDR Steering Committee



Steering Committee proposals

Main improvement suggestions:

- South African ID validation
- Data validation by data providers
- Confirm detected high doses ($\geq 50\text{mSv/year}$)
- Dose overlapping \rightarrow uploading DP must sort out with other DP
- Doses checksum in Excel = checksum in database



Steering Committee proposals

- 5-year block data (2011 – 2015) and further historical data → Do not enforce National ID requirement for ZA citizen
- Put message on portal when system ready to accept historical data
- Able to print worker dose report with official NDR logo (NNR and DoH)
- Possibility to delete submitted file and associated data, with mandatory reason
- Link multiple DP's to same master account



NDR OJT

- Resolved issues/challenges with uploaded files for some DPs
- Provided training to NNR IT and NDR custodians
- Performance and data quality enhancements, as well as upgrade of RAIS to v3.4
- Discussion with NDR custodian about required regulatory reports



NDR DP Training

- Training session for +/- 35 participants
- Presentations / demonstrations by NNR
- Hands-on training for holders, using a predefined scenario



Improvements implemented

- Disallowing negative dose values in template
- Allowing of initials to be “UNKNOWN”
- South African ID validation
- Historical data → drop National ID requirement
- DP can indicate when all historical data has been uploaded
- Improvements of interactivity on data submission page
- Helpdesk email link added to Help page
- Upgrade of NDR portal Test and Prod with implemented changes (v1.1.7)



NDR Way Forward

- Adding more data providers to the system
- Resolve open issues such as
 - data validation (overlapping doses, high doses, checksum),
 - logos on dose reports,
 - data file deletion,
 - enhanced user account management



NDR Way Forward

- Propose target figures for NDR
 - Grouping of mines to be determined (based on risk and category) → e.g. Cat5, ESKOM, NECSA, SABS end of 2017 to upload all data (historical, 2011-15, annual from 2016)
 - Cat4 and Cat3 → 2018 upload of all data
 - Others → 2019 upload of all data



NDR Way Forward

- Consider training in different locations
- Conduct next steering committee during one of the next training sessions
- Update of user and regulator manuals
- NNR to improve on support and follow-up on helpdesk calls regarding NDR
- NNR to define upload frequencies for each DP (or group of DP's)
- NDR system should automatically remind DP's when next upload is due