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| Title                | Emergency Management and Radiation Monitoring in Nuclear and Radiological Accidents. Summary Report on the NKS Project EMARAD.  |
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| ISBN                 | 87-7893-199-1 <i>Electronic report</i>  |
| Date                 | April 2006  |
| Project/Sub Project  | NKS-B / EMARAD  |
| No. of pages         | 23  |
| No. of tables        | 3   |
| No. of illustrations | 4   |
| No. of references    | 12  |
| Abstract             | <p>In order to manage various nuclear or radiological emergencies the authorities must have pre-prepared plans. The purpose of the NKS project EMARAD (Emergency Management and Radiation Monitoring in Nuclear and Radiological Accidents) was to produce and gather various data and information that could be useful in drawing up emergency plans and radiation monitoring strategies. One of the specific objectives of the project was to establish a www site that would contain various radiation-threat and radiation-monitoring related data and documents and that could be accessed by all Nordic countries. Other important objectives were discussing various factors affecting measurements in an emergency, efficient use of communication technology and disseminating relevant information on such topics as urban dispersion and illicit use of radiation.</p> <p>The web server is hosted by the Radiation and Nuclear Safety Authority (STUK) of Finland. The data stored include pre-calculated consequence data for nuclear power plant accidents as well as documents and presentations describing e.g. general features of monitoring strategies, the testing of the British urban dispersion model UDM and the scenarios and aspects related to malicious use of radiation sources and radioactive material. As regards the last item mentioned, a special workshop dealing with the subject was arranged in Sweden in 2005 within the framework of the project.</p> <p>This report describes the EMARAD project and the work performed and results obtained. The report is complemented by another EMARAD publication "Proceedings of the NKS/EMARAD Mini-seminar on Malicious Use of Radioactive Material, held at Hotel Park Inn, Solna Centrum, Stockholm, on May 24-25, 2005".</p> |
| Key words            | Emergency preparedness; Radiation monitoring strategy; Emergency measurements; NPP accident consequences; Illicit use of radiation; Urban dispersion; Web-based library; Communication  |