**Integration Group for the Safety Case (IGSC) Symposium 2024**  
*MOVING TOWARDS THE CONSTRUCTION OF A SAFE DGR – GETTING REAL*

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| **Abstract Title:**  **Nagra’s safety argumentation for the general licence application for the Swiss deep geological repository** | |
| **Abstract (300-500 words):**  In Switzerland, the Nuclear Energy Act (KEG) requires the disposal of all types of radioactive waste in deep geological repositories (KEG 2003). Following a three-stage site selection process according to the Sectoral Plan for Deep Geological Repositories (BFE 2008), the Swiss implementor Nagra proposes the siting region Nördlich Lägern to host a combined repository for both HLW and L/ILW (Nagra 2022). Nagra will submit the general licence application for such a repository end of 2024. The application will contain a safety-based justification for the last stage of the site selection according to the Sectoral Plan and a post-closure safety case for the planned repository.  We present the key aspects of the safety argumentation for both the site selection and the safety case and discuss challenges and opportunities at this crucial step in the disposal program, where the knowledge base has significantly increased and the project advances in view of the construction licence application. The following topics will be highlighted:   * Consistency and adequate management of uncertainties for the site selection argumentation and the safety case, * structure and logics of the safety argumentation and safety assessment methodology, * the role of the safety assessments within the project development cycle that includes requirements and design development, * how safety argumentation contributes to acceptance and trust, despite remaining uncertainty.   The contribution will conclude by summarising lessons learned, the strengths of the approach, and an outlook towards future program milestones.  **References**  BFE (2008): Sachplan Geologische Tiefenlager: Konzeptteil. BFE 2. April 2008 (Revision vom 30. November 2011). Departement für Umwelt, Verkehr, Energie und Kommunikation UVEK, Bern.  KEG (2003): Kernenergiegesetz (KEG) vom 21. März 2003, Stand am 1. Januar 2024. Systematische Sammlung des Bundesrechts SR 732.1, Schweiz.  Nagra (2022): Der Standort für das Tiefenlager - Der Vorschlag der Nagra. | |