



Sandy Ridge – Safety case

Tellus’ safety case draws on best practice techniques developed from similar facilities around the world. When designing the proposed Sandy Ridge Facility, Tellus analysed similar geological repositories located in various countries, including the United Kingdom, the United States, France and South Africa in order to identify and eliminate any potential design flaws. Various international guidelines were carefully considered during this process.

The safety case is underpinned by the strict waste acceptance criteria (*see Waste Acceptance Criteria Fact Sheet*) which would be implemented. These criteria eliminate any wastes that have the potential to react or damage the geological repository after waste emplacement. If it is found that the waste does not meet the criteria, it **would not** be accepted for emplacement.

The combination of engineered and natural barriers is referred as the ‘multi-barrier system’. This ensures that multiple failsafe layers are in place. Even if one of these barriers fails, waste would still be contained by the other layers.

During the emplacement operations, the wastes would be placed in a ‘like-with-like’ arrangement, meaning that wastes with similar characteristics would be placed together. This would assist in the potential recovery of waste in the future.

The proposed Sandy Ridge Facility design **has been internationally peer reviewed**. The review supports the current design in terms of operational safety. Tellus would continue to refine its Proposal Safety Case in line with Commonwealth and International guidelines as it progresses through detailed design.

Safety cases for Tellus facilities based on multi barrier concept, underpinned by geology, hydrogeology, operational procedures and in the case of Sandy Ridge, an arid climate.

Safety Case base don multi barrier concept of natural geology and engineering

Natural barriers

Packaging

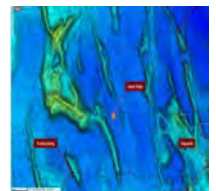
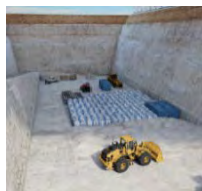
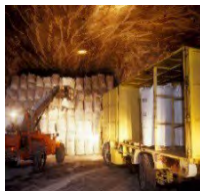
Transport

Operations

Operations

Closure and institutional control period

Extensive clay bed



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