

# SANDY RIDGE - SAFETY CASE AND WASTE ACCEPTANCE CRITERIA

## INDUSTRY WASTE SOURCE

## BEST PRACTICE SAFETY CASE

✓ Mining	✓ Certified Management System
✓ Oil and Gas	✓ Strict regulated packaging and transport systems
✓ Heavy Industry & power generation	✓ Strict waste characterisation and acceptance criteria
✓ Agriculture	✓ Multiple man made barriers ("engineered barrier")
✓ State Emergency Service (disasters)	✓ Thick 70myr old dry clay bed ("geological barrier")

## TYPICAL CONTAINER TYPES



## WASTE TYPES

Accepted on site  
(surface storage)

Accepted below  
surface in cells

WASTE TYPES	Accepted on site (surface storage)	Accepted below surface in cells
• Hazardous and Intractable chemical wastes subject to meeting the characteristics criteria below	✓	✓
• Liquid and sludges	✓	x <sup>1</sup>
• Explosive wastes	✓	x <sup>1</sup>
• Flammable liquids or solids	✓	x <sup>1</sup>
• Self combusting wastes	✓	x <sup>1</sup>
• Highly corrosive or oxidizing	✓	x
• Gases	x	x
• Clinical waste such as infectious hospital waste and body parts	x	x
• Municipal Solid waste such as putrescib/e household and commercial waste	x	x
• Uncertified waste which can not be identified	x	x
• Naturally Occurring Radioactive Material (up to LLW <sup>2</sup> ) such as oil & gas industry scale	✓	✓
• Low level Waste (LLW) smoke detectors, exit signs, industrial gauges & medical isotopes	✓	✓
• Intermediate level waste (ILW) High level waste (HLW)-reprocessed & spent nuclear fuel	x	x
• Nuclear waste - from power generation and defense use	x	x

<sup>1</sup>Normally excluded unless modified before disposal or during disposal so the operational and post closure safety of the waste cell and facility is not compromised

<sup>2</sup>Classification of Radioactive Waste - ARPANSA RPS20

(✓ = accepted, x = not accepted. x<sup>1</sup>: normally excluded but possibly suitable)

