

Breakout D

3/16/2016

Metrics and Market

- Different markets the value of electricity is different.
- Challenge of this product is value in different market.
- First market will tolerate higher cost, but there has to be pathway to get in to large market.
- Topical reports needed to move technology into the market.

Concepts

- Higher level questions: zero EPZ, autonomous, source term
- Not clear on specifics
- Eliminate moving parts – solid state design
- TRISO is main fuel choice
- Autonomous: Need to be inherently safe, not just passively safe
- Seems that autonomous is technologically possible for 1-2 year timeframe, but regulation limits this possibility

Sensors

- Needs to work at higher temperatures, self diagnostic, self-powered, wireless, longer lifetime
- Discussion of whether sensors needed to be inside the core or not
- Safety – spoofing risk, if autonomous

Materials

- Need operational conditions to be able to select optimum materials – need to define the environment –
- Need the concept to select the materials
- Margin of friability of material components