LEU Mo-99
Economic Considerations

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Targets

• More required than if using HEU
  – Increased cost of targets
  – Increased inventory of targets required

• Target harder to manufacture
  – Try to maximise U density
  – Tight tolerances
  – Tungsten contamination may be an issue

• Result is higher cost
Reactor Volume

• More targets required to be irradiated compared with HEU
  – More rigs to be handled
  – More irradiation positions utilised
  – Less space for other targets

• Result is higher cost
Target Dissolution Time

• Longer time required for target dissolution compared with HEU
  – Longer run time
  – More decay during processing

• Result in small cost increase
Increased Waste Volumes

- **Intermediate Level Solid Waste**
  - Increased volumes of uranium residue
  - Significance not high but needs to be managed

- **Intermediate Level Liquid Waste**
  - Increased volumes
  - Significant difference resulting in higher costs for treatment and storage
Summary

• Making Mo-99 from LEU is not a technical issue
  – Can be made in large volumes
  – Mo-99 has no impact on generator performance

• It can be made in a commercially viable manner
  – However there are increased costs
  – Market needs to accept this fact and expect price increases to ensure viability of supply
Thank you