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Safety Assessment Principles 2006 The Environment Agency's Perspective

Alan McGoff

Radioactive Substances Regulation Policy

SAPs Seminar,

Liverpool, 26 January 2007

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Our perspective

- SAPs generally consistent with UK goal setting, non-prescriptive approach;
- High safety performance helps protect the environment;
- Integrated approach - seek to achieve all regulatory and business objectives - good safety and environmental performance is good business!

Energy Review 2006:

“We do not take a position for or against nuclear power, but we insist that nuclear installations must achieve high standards of safety, security, environmental performance and waste management.

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Key to Successful Joint Regulation

- Safety optimisation - SFAIRP/ALARA - takes the environment fully into account together with all other relevant matters;
- Environmental optimisation - BPM/ALARA - takes safety fully into account together with all the other relevant matters.
- Seek consistency within *and* between regulators.

Environment Agency's ¹⁹⁹⁶₂₀₀₆ Radioactive Substances Regulation Environmental Principles



- Development ongoing
- Objective - technical guidance to help underpin decisions relating to radioactive substances regulation. Including:
 - permitting and compliance where we regulate directly; and
 - where we are consultees or have influence.

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REPs - Structure

| | |
|---|---------------------------------------|
| Environment Agency | IAEA |
| RSR Objective | Safety Objective |
| Fundamental Environmental Principles for RSR | Safety Fundamentals |
| Developed Principles – Generic | Thematic |
| Regulatory Framework | Legal and Governmental Infrastructure |
| Emergency Preparedness and Response | Emergency Preparedness and Response |
| Management Systems | Management Systems |
| Compliance Assessment | Assessment and Verification |
| Enforcement | <i>(none)</i> |
| Site Evaluation | Site Evaluation |
| Radiation Protection and Monitoring– People and Environment | Radiation Protection |
| Radioactive Substance Management (including Waste Disposal) | Radioactive Waste Management |
| Decommissioning | Decommissioning |
| Contaminated Land and Groundwater | Rehabilitation of Contaminated Areas |
| Evaluation and Information | <i>(none)</i> |
| | |
| Developed Principles – Sector/Site Specific | Facility Specific |

REPs - Example

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Radioactive Substance Management (including Waste Disposal)

A strategy shall be produced for the management of all radioactive substances.

Considerations:

- The strategy shall ensure that for human health and the environment:
 - ◆ An acceptable level of protection is achieved; and
 - ◆ That impact and risks have been minimised taking into account all relevant factors including:
 - Worker and public safety;
 - Cost;
 - Security;
 - Technical capability;
 - Burdens on future generations;
 - Precautionary principle;
 - Use of resources;
 - Stakeholder views. (etc)

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REPs - Progress

- Structure, Radioactive Substances Regulation Objective and Fundamental Principles published as working document;
- Developed principles for the sector Radioactive Substances Management (including waste disposal) also published in same document;
- Other sectors being developed with contractor support;
- Issue as working document over next few months;
- Continue to use SAPs as starting point.

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