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Rebuilding Trust in the Science of Radiation Protection

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What is trust?

- Radiation risk assessment is a complex subject
- Not feasible to "educate" stakeholders thoroughly
 - A level of trust has to be established between stakeholders and scientists
- Stakeholder acceptance is essential for successful recovery decisions

Where does trust come from?

Sound science

- State of the art methods
- Intense scientific peer review

Transparency

Availability and accessibility of information

Responsiveness

Taking actions beyond what is expected



Participation of Stakeholders



Inhalation of resuspended plutonium contaminated soils – dominant exposure pathway



We concluded a rancher living on the land with his family is the scenario that would lead to the highest dose



A prairie fire could significantly increase the dose because of greater resuspension following the fire.



Resolution of Soil Action Level at Rocky Flats



How do we build trust?

Consistent efficient process for compiling, accessing and analyzing environmental data

- Comprehensive, geared to end use
- Convert data into knowledge
 - Flexible, rapid, current
- Communicate the knowledge
 - Transparent, understandable, cannot be delegated

Turning Data Into Information and Knowledge



How do we maintain trust?

- Establish the ability to re-evaluate decisions as new information becomes available
- Ensure a transparent process that allows decisions to be traced back to the information they were based upon
- Establish the ability to allow other factors (e.g., economic, cultural, political) to be accounted for in decision making
- Effectively communicate the basis for decisions

THANK YOU

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