


**ERA**

# Human health and safety

## Health and safety are core values, guiding all aspects of work from long-term decision making through to day-to-day operations.

ERA's established health and safety system is based on formal company safety standards that provide assurance that hazards and risks are identified and controlled. Health and safety are core values, guiding all aspects of work from long-term decision making through to day-to-day operations. They apply to all people associated with Ranger operations, including contractors, employees and visitors.

Health and safety of workers on the Project will be managed through the existing health and safety systems and standards. ERA will implement an underground safety standard to ensure the highest level of protection for the health and safety of workers. This standard will cover all key underground mining risks including; ground control, emergency response, fire, explosives, hazardous atmospheres, air blasts and inrush of liquids or solids.

ERA also has core values relating to radiation safety and protection, with a goal to ensure that radiation exposure

to workers, the public and the environment is as low as reasonably achievable (ALARA). This is reflected in our radiation protection policy and radiation protection program.

Underground workers will be in close proximity to the uranium ore. The radiation exposure of these workers will be managed by two methods:

- Dust and radioactive gases will be managed through application of a robust ventilation system coupled to mine scheduling.
- Gamma radiation (like X-rays, but of higher energy) will be managed by shielding (on equipment, or through the application of shotcrete) and through minimising the exposure time of workers in proximity to higher grade ore.

Predicted radiation exposures to workers are higher compared to those typically recorded for the open pit mine. However, they are all well below the safe limits and they are similar to radiation doses recorded at other underground uranium mines worldwide.

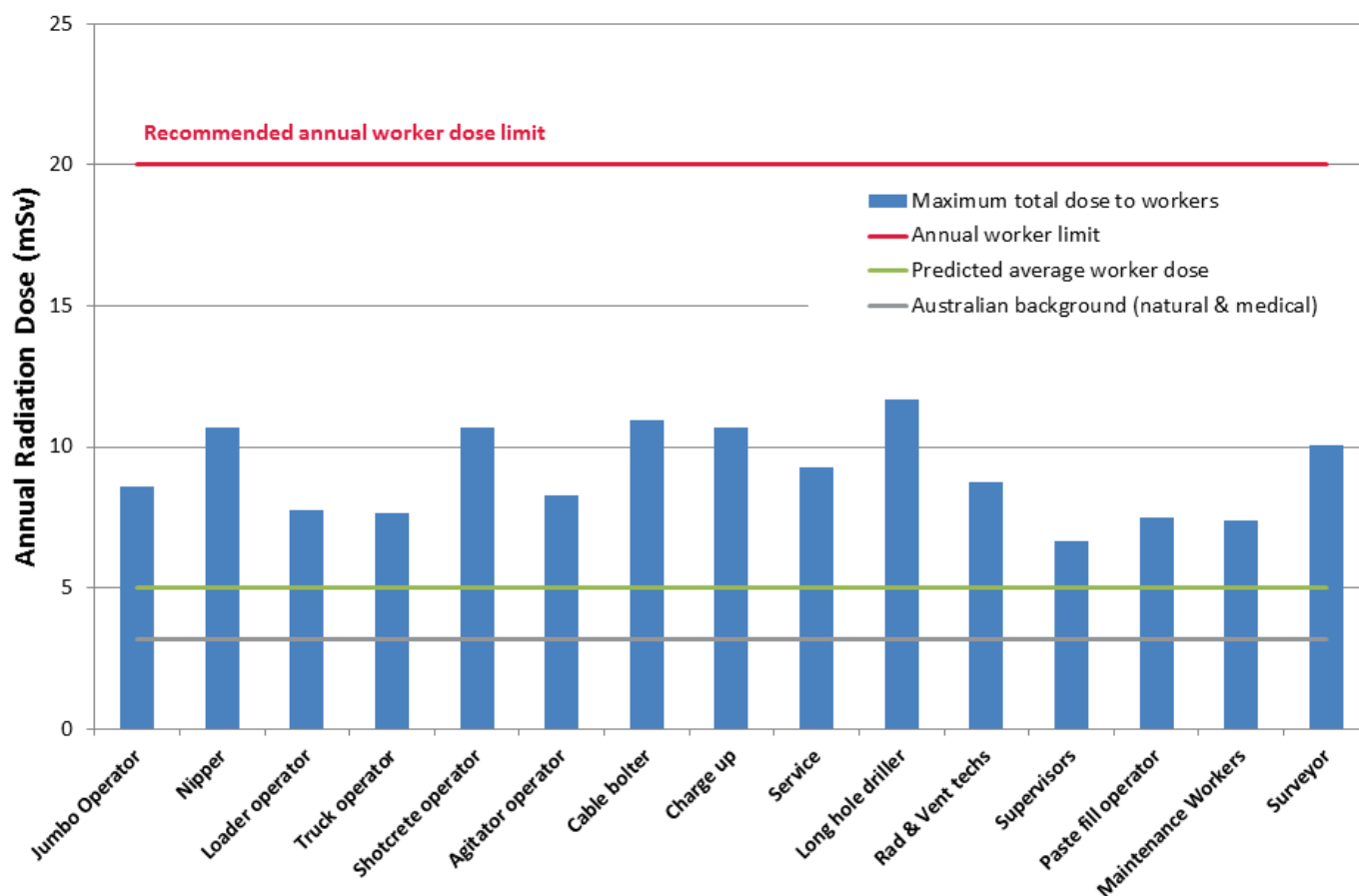
Members of the public living in Jabiru and eating a traditional diet of bush foods are predicted to receive very low radiation doses; less than 10% of the public dose limit.

## Fast Facts

- Health and safety are core values for ERA, demonstrated through the application of and continuous improvement to robust and mature systems.
- Underground safety standards will reflect industry best practice, covering all aspects including ground support, atmosphere control, explosives handling, and emergency response.
- Predicted worker radiation exposure will be higher in underground mining compared to open pit mining, however doses will be well below safe limits.
- Public dose contribution from the Project to nearby communities will remain much less than designated limits and only a fraction of background levels.



# Human health and safety



Maximum predicted radiation dose for Ranger 3 Deeps workers.

## Further reading:

Refer to Chapter 7 of the *ERA Ranger 3 Deeps Draft Environmental Impact Statement*.