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ATKINS

Member of the SNC-Lavalin Group

Webinar on Implementation of new lens of the eye dose limits
Canadian Nuclear Safety Commission and Canadian Radiation Protection Association
Eye dose limit reduction – the impact on operational RP?

Ross Beveridge

Why?

“(3) For occupational exposure in planned exposure situations ... equivalent dose limit for the lens of the eye of 20 mSv in a year, averaged over defined periods of 5 years, with no single year exceeding 50 mSv.

”

– Publication 118 Statement on Tissue Reactions

No change to principles or concepts in the system of radiological protection

- Numerical change to the dose limit in response to clear evidence of a significantly lower threshold

Clements, C., 2018 - Webinar on Recommended Dose Limits for Lens of the Eye

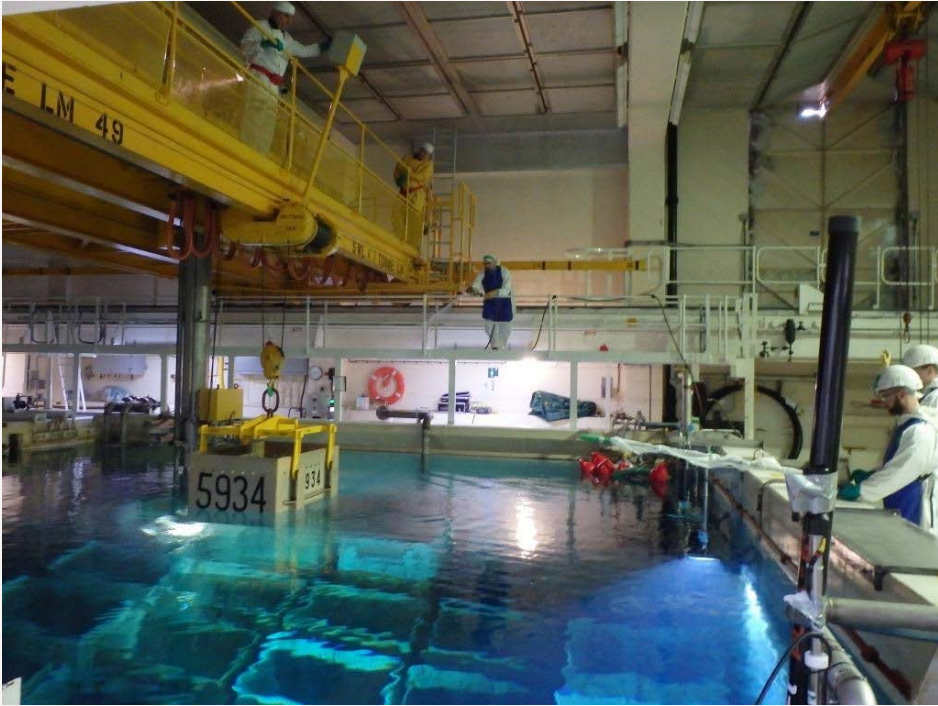


Magnox

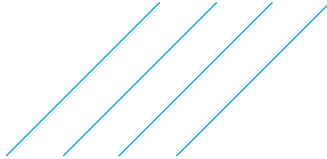
- Corporate administrative control
- Hazard
- Type of work
- Work environment



What work looks like...



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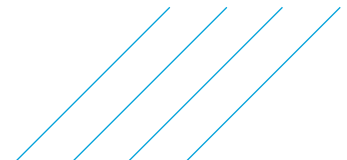
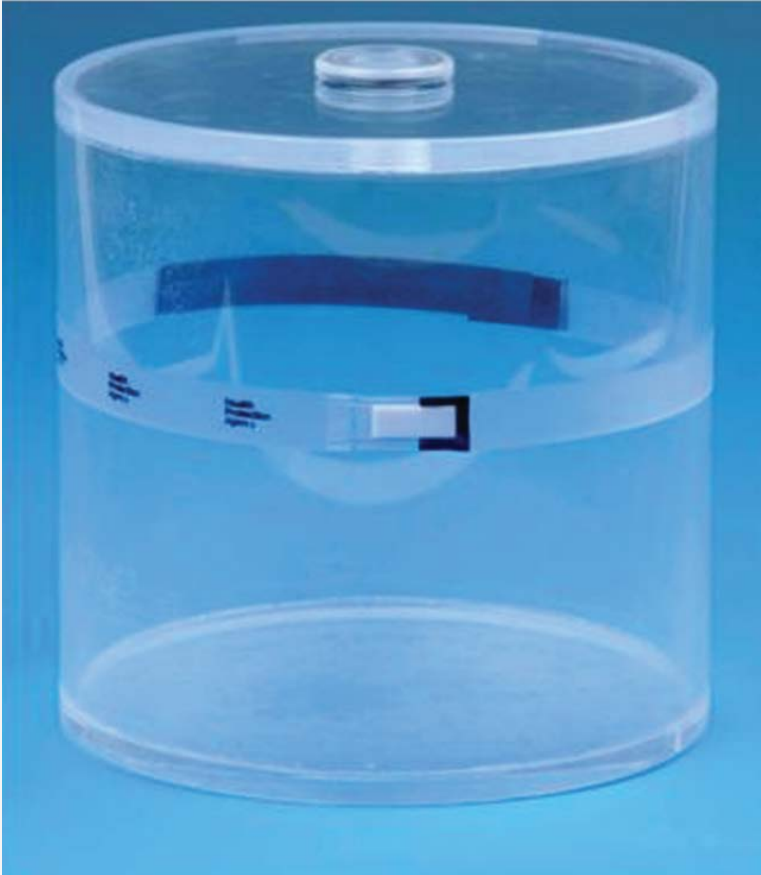


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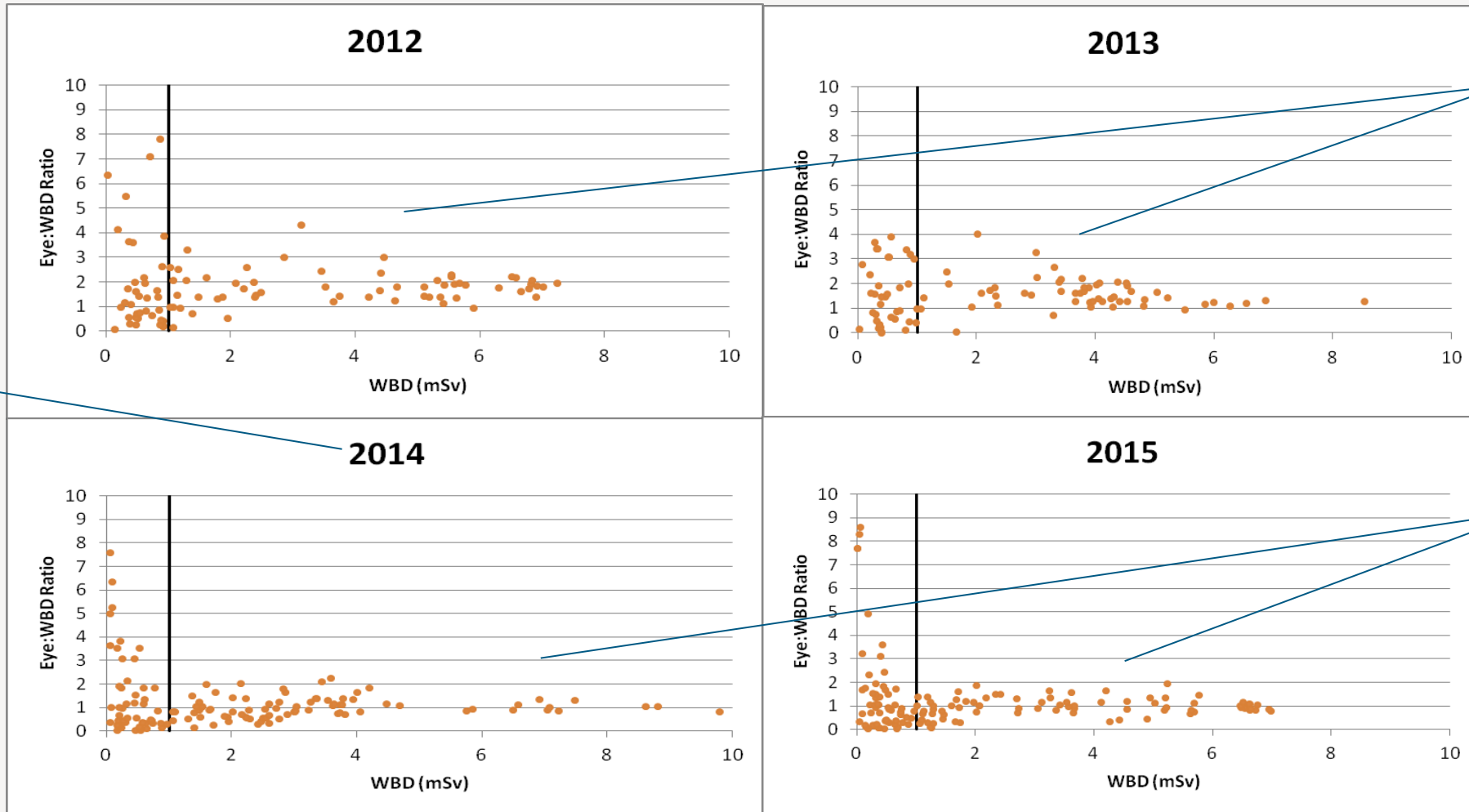


Dose measurement

- HP (0.07) v's HP (3)



Observations



HP(3) TLD introduced

Eye:WBD ratio inconsistent across WBD range

All ratios Eye:WBD < 2 where WBD > 1mSv

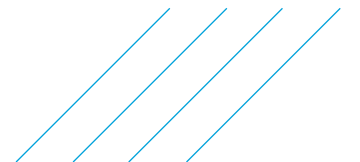


Operational RP tools

Standard ratio?

Assessment for in-field work

Exceptions to the rules...



Conclusion

Get measurement correct

Understand hazard

Norms – are they appropriate?

If in doubt – assess it!



Acknowledgments

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