

“Summary Tritium Release Reduction based on Release Trend Analysis”  
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Wolsong NPP II has 2 units, Unit 3 & 4. They are PHWRs (Pressured Heavy Water Reactors). They generate and release tritium.

From measurement of monthly release of airborne tritium, it was found that increase amount from unit 3's release sustained compared to unit 4's.

From analysis of measurement data of tritium concentration and designed flow rates of controlled areas, we could identified leaking positions.

#### Conclusion

- We can evaluate the release rate of radioactive material using regular measurements of local concentration with comparing to the designed vent flow rates.
- This method is useful to search leak points and lead to reduce the release rate.