

Radiation Safety

Without Paper

Where We Were

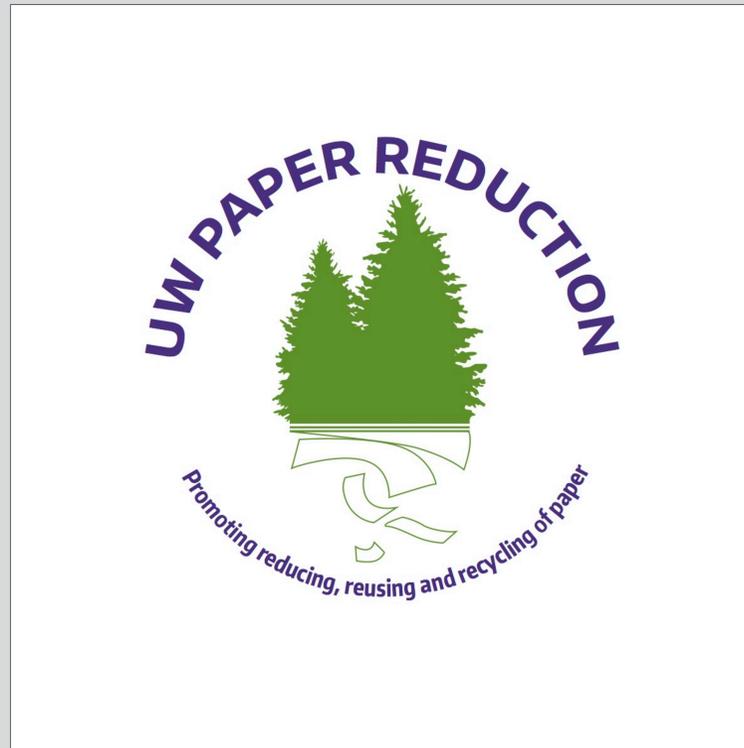
- **Problem:** In the past Radiation Safety spent a lot of time doing unnecessary work, writing, typing, and filing documents.
- **Solution:** Create an electronic data collection and survey management system beginning in 2015.
- **Result:** Hardware, software, and connectivity limitations required innovative solutions.



2016: Microsoft One Note

- **Problem:** Data conversion challenges and delays implementing a new database.
- **Solution:** Use Microsoft Surface tablets and One Note application as an interim method to collect data electronically.
- **Results:** One Note templates eliminated redundant mechanical tasks. Paper survey forms and reports were replaced with digital files. Staff learned new technology skills.

FIRST ELECTRONIC INITIATIVE (2015)

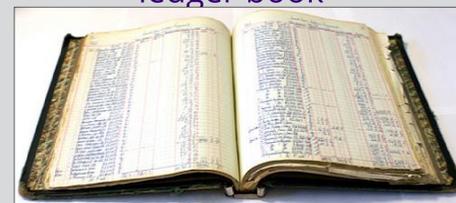


PAST PROCEDURES



Manual paper based data collection

Tracking surveys with a ledger book



Numerous filing cabinets

2017: EH&S Assistant

- **Problem:** Prior to 2017, survey data was collected but never entered into a relational database.
- **Solutions:** Newly acquired EHSA Database was implemented in priority phases. Survey data was entered directly into the database in the field.
- **Results:** Time spent retyping data and generating report documents was reduced. Staff learned new technology skills.



ID	Category	Subcategory	Code	Deficiency	Assess
1	Contamination Survey Inspection	Contamination Survey Inspection	RAD-B	Room Entrance not labeled "Caution Radioactive Material"	Pass
2	Contamination Survey Inspection	Contamination Survey Inspection	RAD-CRT	Certificates of Authorization/Permits to Employees not posted	Pass
3	Contamination Survey Inspection	Contamination Survey Inspection	ESPE	Emergency Procedures not posted to date	Pass
4	Contamination Survey Inspection	Contamination Survey Inspection	ESL-SL	Flame hoods, self-generators, waste containers, etc. not labeled "Caution Radioactive Material"	Pass
5	Contamination Survey Inspection	Contamination Survey Inspection	RAD-TRG	Radon free water found in regular tank	Pass

Where We're Headed

- **Problems:** Many other tasks and documents utilize paper and are not tracked electronically in a database. Metrics are needed to document and justify resources and workloads.
- **Solutions:** Create and populate a database dashboard. Track radioactive material inventory electronically.
- **Results:** Metrics are automatically displayed in real-time through dashboard data visualization. Bar code readers eliminate paper inventory verification forms. Staff learned new technology skills.

