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November 7, 2019 – Firefighter Health and Safety, and Seismic Upgrades

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COMMUNITY SAFETY ADVISORY GROUP

November 7, 2019

6:00 pm to 8:15 pm

Council Chambers

- 6:00 Dinner
- 6:10 Welcome and Agenda Overview - Marilynne Beard, Facilitator
- 6:15 Overview of Remaining Meetings – Marilynne Beard
 - Reschedule of Station Tour
 - Remaining Schedule of Meetings
- 6:30 Overview of Firefighter Health and Safety and Seismic Upgrades -Chief Sanford
- 7:00 Public Information Needs – Small Group Discussions and Report Out
- 7:50 A Framework for Considering Needed Investments – City Manager Kurt Triplett
- 8:15 Wrap up and Adjourn



CITY OF KIRKLAND FIRE DEPARTMENT

Station Renovations for Seismic Resiliency and Firefighter Health & Safety

Fire Chief Joe Sanford



Two Reasons Why We Renovate Fire Stations



SEISMIC RESILIENCY



FIREFIGHTER HEALTH &
SAFETY

What's wrong with this picture?



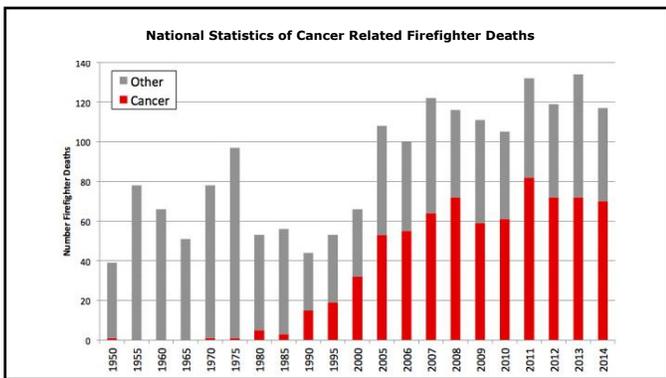
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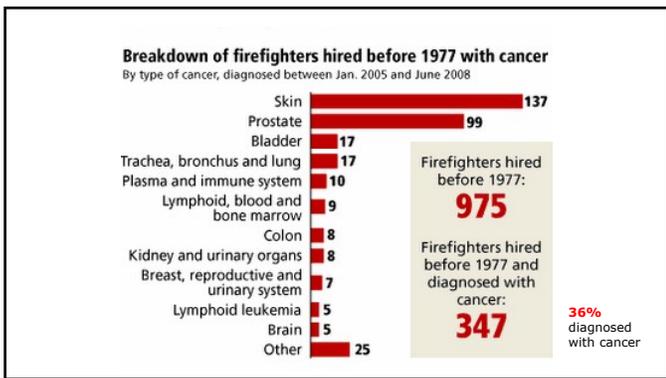


What's wrong with this picture?









Increased Cancer Rates for Firefighters

- 100% testicular cancer
- 50% multiple myeloma (incurable bone cancer)
- 50% non-Hodgkin's lymphoma
- 39% skin cancer
- 31% brain cancer
- 28% prostate cancer
- 21% colon cancer
- Increases in thyroid cancers, malignant melanoma, breast cancer, and cervical cancers.



Emergency service professionals are classified by the insurance industry as high hazard and demonstrate an alarmingly high incidence of **heart attack, high blood pressure and cancer.**





Gross Decontamination

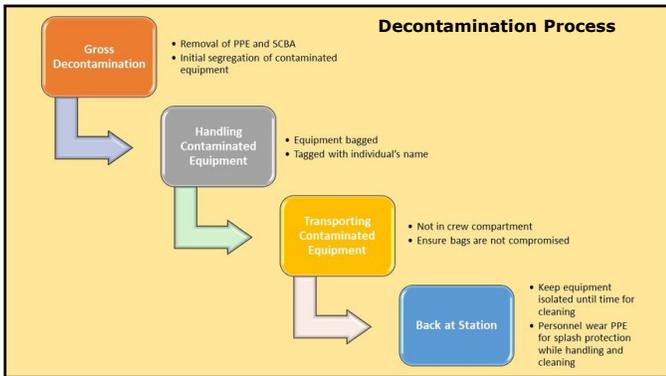


400%
Increase in absorption for every 5% increase in skin temperature

Fire Retardants



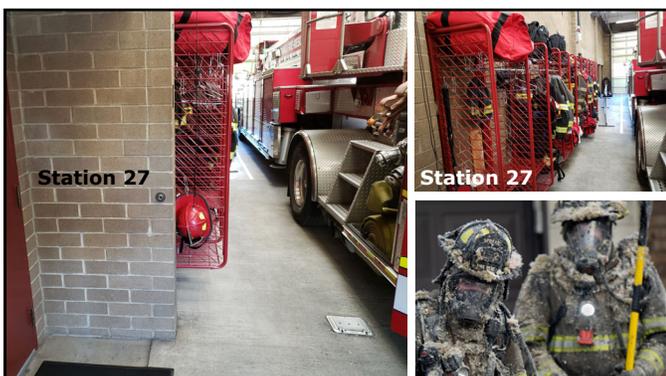
Gross Decontamination



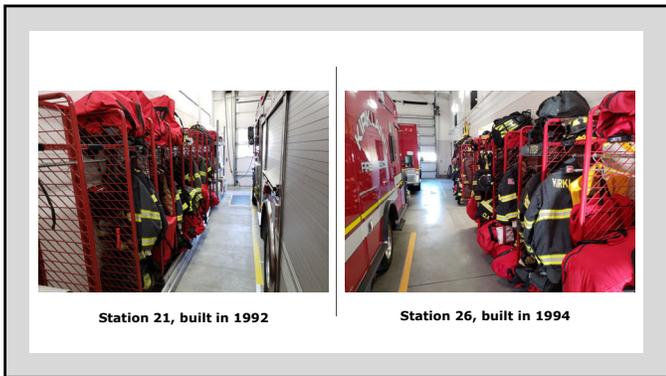
VIDEO













- Negative Pressure
- Vented to Outside
- Rapid Drying
- No UV Exposure
- Protects significant Investment



Safe Fire Stations



Before: Station 26 workout room



After: Station 25 workout room

Station 21







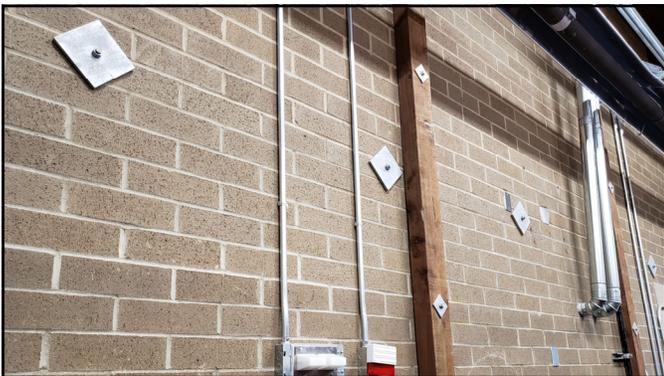
Seismic Resilience

- Overview
- Firefighter Health Risks
- Decontamination
- Healthy Stations
- Seismic Resilience
- Station 25 Renovation



It does happen...











Scope of Renovation

- Fire Station 25 was 43 years old when renovated
- It did not meet current building code and NFPA Standards.
- Renovation was essential for the health and safety of firefighters and the community after a major disaster.
- Primary focus:
 - Structural (critical infrastructure)
 - Technical upgrades (Electrical, Plumbing, HVAC, Alerting)
- Secondary focus:
 - Functional upgrades to improve the efficiency and livability of the station.


























**Tier 2: Remaining Strategic Plan/
WSRB Recommendations**
Facilities and Operations

