



Past Environmental Hazards *and* Today's Cancers





Primary Objective

Familiarize you with conditions that existed in the 1960s to the 1980s that exposed members to carcinogens that resulted in their cancer.





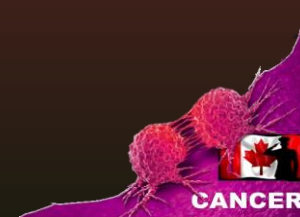
Agenda

BARRIERS

Topic	Presenter
Introduction	DON
Hazards at Sea	JIM
Hazards in the Bunkers	DON
Barriers & Suggested Changes.....	DON
QUESTIONS	ALL

40 mins

10 mins





Board of Directors

Federally Incorporated Not-For-Profit

- **Master Warrant Officer** (Ret'd) **Don MacPhail**
- **Commander** (Ret'd) **Jim Hutton**
- **Warrant Officer** (Ret'd) **Randy Hladun**





Dual Mission

BARRIERS

- **Awareness**

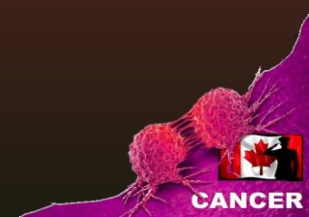
Legion Posters

Facebook & Website

Newspaper Articles

Speaking Tour Plans

- **Advocacy**





Dual Mission

BARRIERS

- Awareness

- Legion Posters
- Facebook & Website
- Newspaper Articles
- Speaking Tour Plans

- Advocacy

- Reaching Out to Decision Makers
- Personal Email to Each MP
- Partnering - NCVA
- SCVA ???





HMCS MARGAREE

Hazards at Sea





Hazards At Sea

1955 to 1990

Jim Hutton





Hazards at Sea

BARRIERS

HMCS NIPIGON

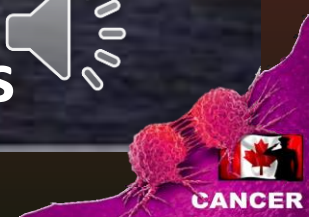
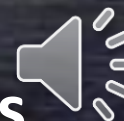
Carbon Tetrachloride
Trichloroethyne (TCE)
Polychlorinated Biphenyls

Radiation

Asbestos



Designed with Environmental Hazards





Radiation

HMCS ASSISSIBOINE

SPS-48
Fire Control Radar
X-Band 6-8 GHz



1972 – Trades Training

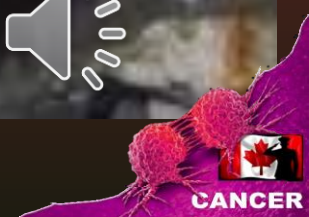
1984 – Sys Engineer

1985 – SPS 12 Cooling





Asbestos





Asbestos

HMCS SAGUENAY



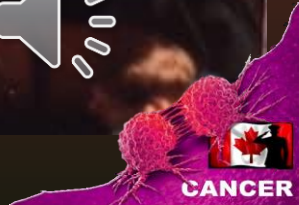
HMCS FRASER





Asbestos

BARRIERS





Polychlorinated Biphenyls

HMCS ASSINIBOINE

All RCN Ships constructed in the 50s and 60s were fitted with transformers whose cooling oil contained PCBs.

Polychlorinated biphenyls (PCBs) are a group of stable synthetic organic chemical compounds that were manufactured until they were banned in 1979.





PCB Clean Up Process

BARRIERS

HMCS KOOTENAY

How we Cleaned
Up a Spill in
1972

How we Cleaned
Up a Spill in
1984





Trichloroethylene (TCE)

HMCS ALGONQUIN



- Cleaning Grease from Gears
- In Water at Camp Lejeune

Emergency Overview:

Clear, colorless liquid; sweet odor. Irritating to eyes/skin/respirator tract. Inhalation: irregular heart beat, drunkenness. Chronic: heart, liver and kidney damage, dermatitis. **Birth defects and cancer may occur based on animal studies.** Flammable.





Carbon Tetrachloride

HMCS ASSINIBOINE

- Disinfectant
- Electrical Contacts

 **WARNING**

THIS AREA CONTAINS
CARBON TETRACHLORIDE,
A CHEMICAL KNOWN TO THE STATE OF
CALIFORNIA TO CAUSE **CANCER, BIRTH DEFECTS,**
OR OTHER REPRODUCTIVE HARM

DANGER

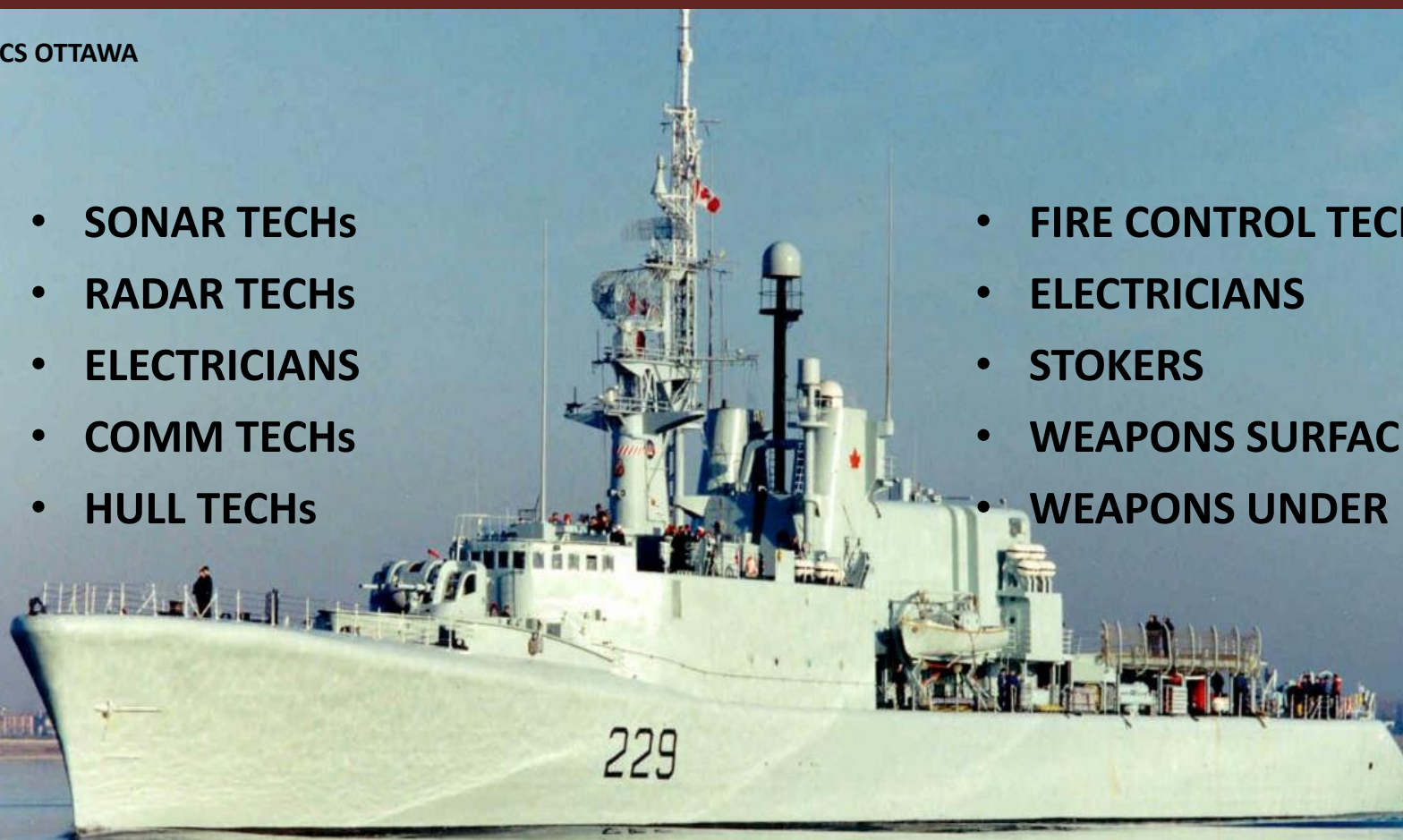




Carbon Tetrachloride

HMCS OTTAWA

- SONAR TECHs
- RADAR TECHs
- ELECTRICIANS
- COMM TECHs
- HULL TECHs
- FIRE CONTROL TECHs
- ELECTRICIANS
- STOKERS
- WEAPONS SURFACE
- WEAPONS UNDER



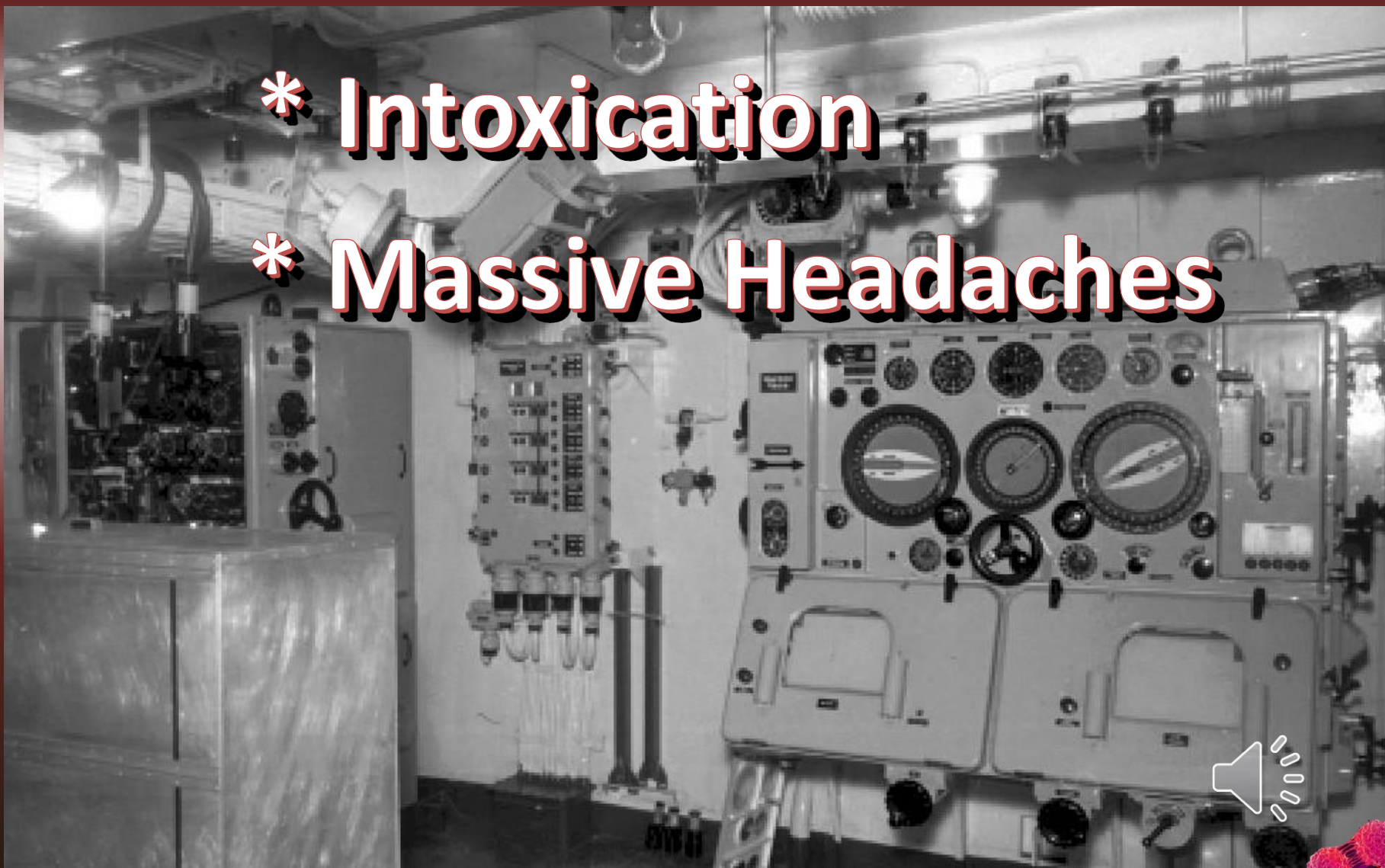
USED EVERY WHERE





Cleaning Electrical Contacts

- * Intoxication
- * Massive Headaches

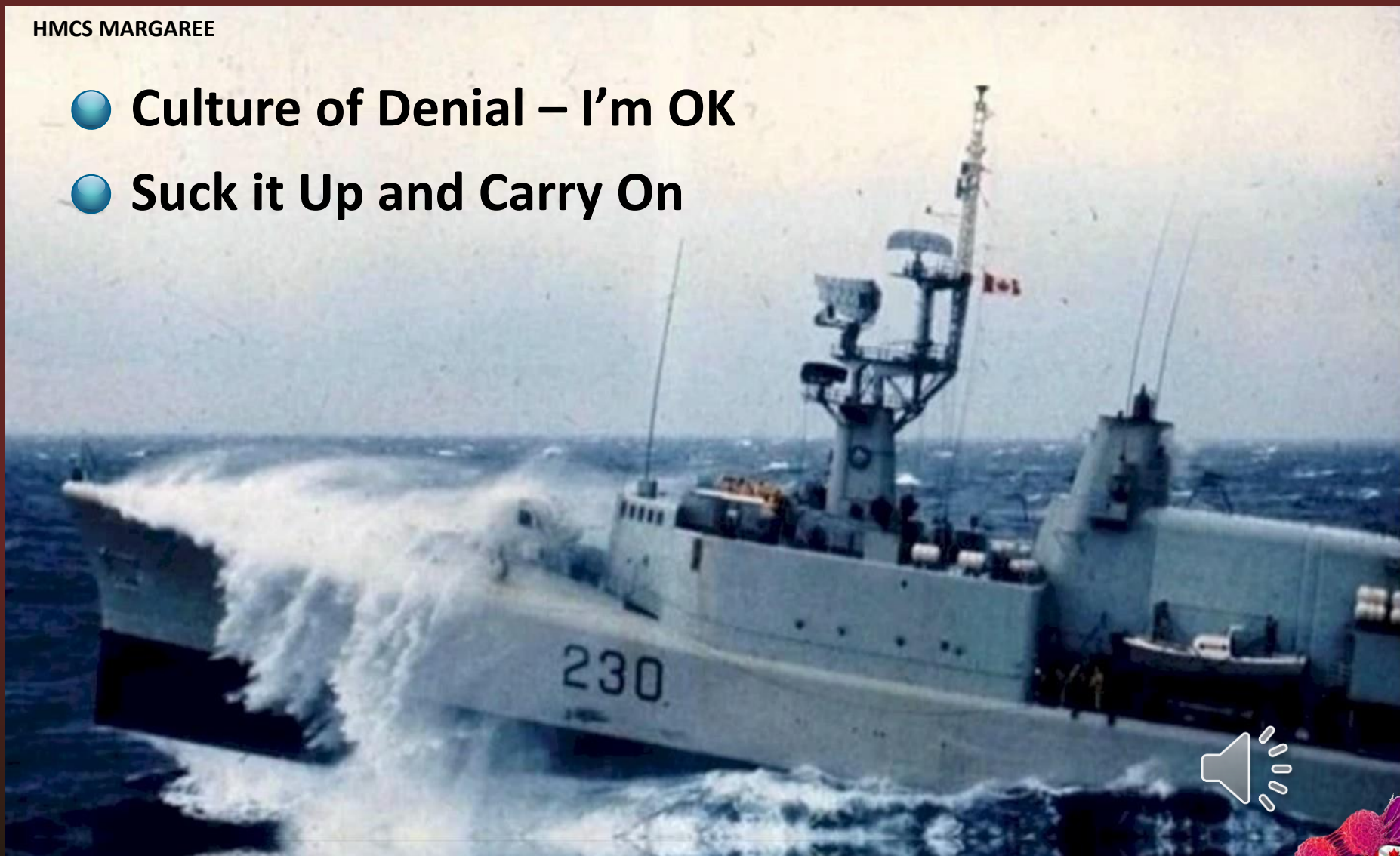




Reporting Injuries

HMCS MARGAREE

- Culture of Denial – I'm OK
- Suck it Up and Carry On



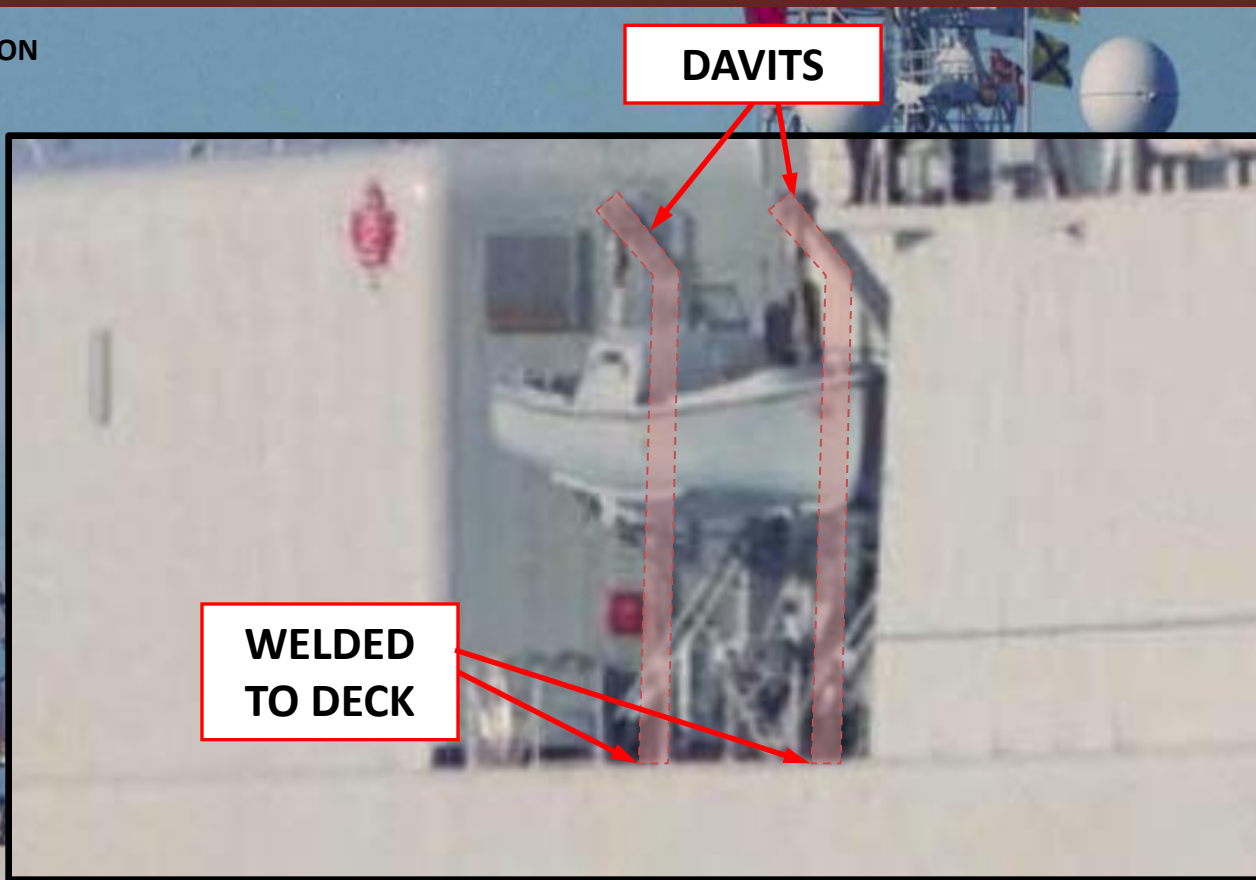


Reporting Injuries

HMCS HURON

DAVITS

WELDED
TO DECK



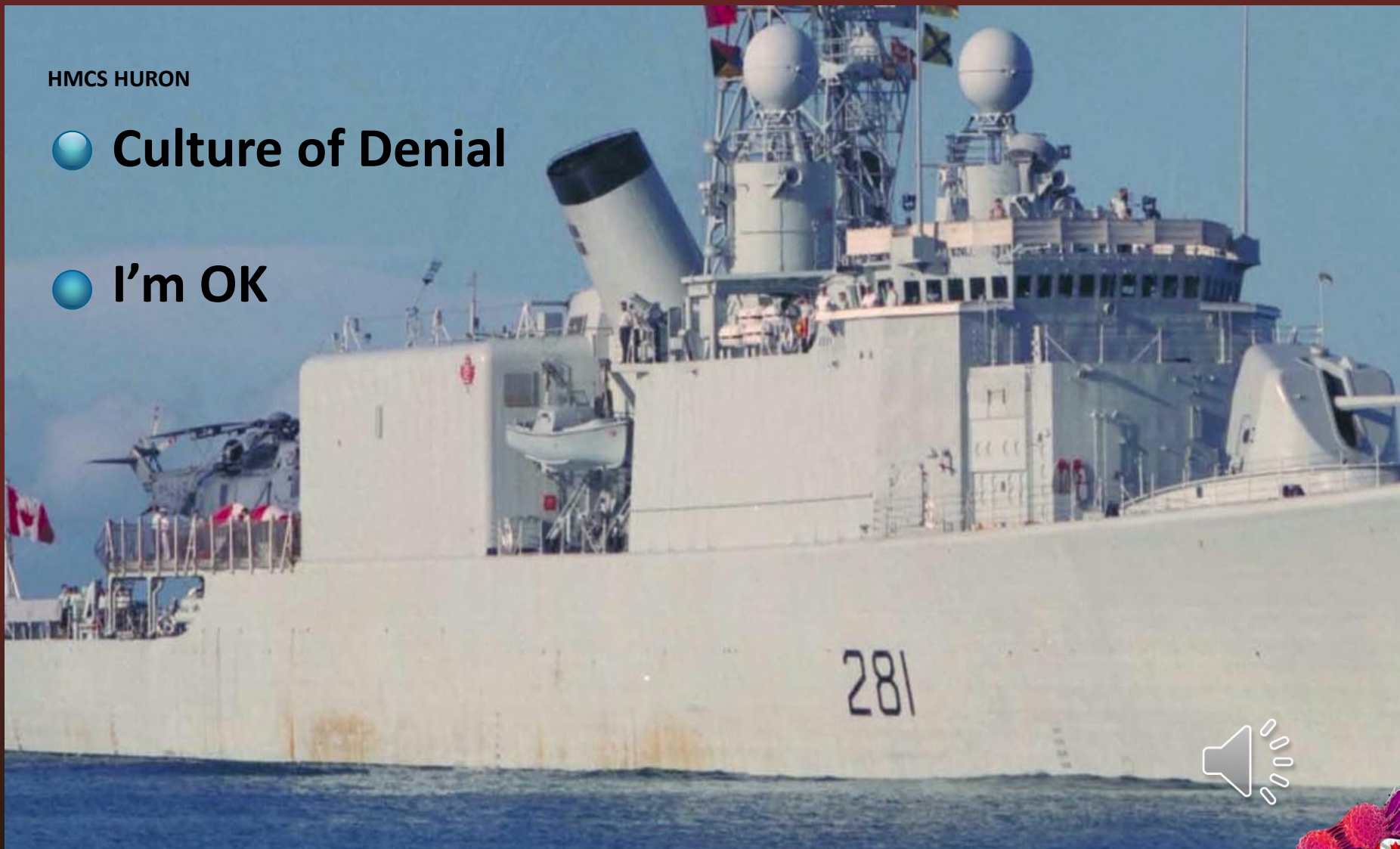


Reporting Injuries

HMCS HURON

● Culture of Denial

● I'm OK





Exposure in the Bunkers





- **Seven Underground Bunkers Built During the Cold War**
- **Ventilation Was Prior to HEPA Filters**
- **Chemicals Prior to WHMIS**





- Comms Equip was Electro-Mech – (CTC)
- No PPE or Precautions
- Extensive Use of Heat/Water/Air Pipes and Walls Encapsulated in Asbestos





Advocacy and Awareness
Veterans with Cancer Inc.

www.VeteranswithCancer.com

BARRIERS

Systemic Barriers



CANCER



Systemic Barriers

BARRIERS

Doctor's Letters

Nearly Impossible Task

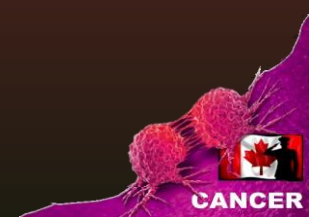
Cancer Injuries can Be Identical

Same Cancer + Same Exposure = Same Doctor's Letter

Process Time

Cancer Claims Take Longer

Cancers Can Be Terminal





Suggested Changes

- Reduce Focus on Doctor's Letters
- Speed Up the Claims Process
 - VAC Should Look at Groups with Identical Cancers
 - Apply Judicial Precedent When Appropriate
- Consider Regulation Para 50(g)





Questions

