Week 13 — Command and Control

- 1. What is command and control (c2)?
 - Policies and tech that seeks to:
 - 1. make clear who has the authority to order the use of nuclear weapons
 - 2. enable that authority to use the weapons when they deem it appropriate to do so
 - 3. make it so that the weapons cannot be used or detonated if that authority has not ordered it to be so
 - Often includes communication (c3)
- 2. Always/Never
 - The US nuclear forces will always be usable when they are legally ordered to be used
 - The US nuclear forces will never be usable when that legal authorization is not there

C2 history in the USA

- 1. Custody dispute
 - Truman didn't want the military to have all nuclear say with bombs
 - Compromise is to have the nuclear cores in AEC control and only president can issue the AEC to give it to the military
 - Eisenhower passes policies that allow military to have their own nuclear weapons (DOD)
 - Ends after Eisenhower
 - Mainly tech advancements, H-bomb cores can't be easily removed
- 2. Operation Chrome Dome
 - US bombers fly around US and ally borders with live nuclear bombs this way some portion of nukes are airborne
 - Failure rate of bombers crashing were high so lots of nuclear accidents
 - 32 total crashes
- 3. US C2 history overview
 - Truman (WWII): mostly military operation, light civilian oversight/guidance
 - Truman (postwar): ard swing towards civilian control, not just legal but physical control (separable bomb cores)
 - Eisenhower: movement towards military custody (sealed bomb cores) with nominal (but u enforced) civilian control, "predelegation," lots of overseas basing
 - Kennedy: enforcement of civilian control through technical changes (e.g. PALs) and organizational changes (e.g. SIOP)
 - Later administrations: more or less the same mold, but with more technology? (many uncertainties!)

American C3 today

- 1. How to launch nuke in USA
 - POTUS \rightarrow Chairman joint chief of staff/STRATCOM? \rightarrow C3 \rightarrow Launch Officers \rightarrow Nukes If anyone says no, then it can maybe be stalled or stopped
 - This is approaching War Games territory, but I mean if you believe that the launch officers will not say no, then should we just cut them out and replace them with a computer? As in give the previous level (C3) a direct line to the nukes, not as in "implement AI like in the movie."
 - Has it ever been debated about not making nukes weak so that if they are being launched and a country is trying to shoot it down, it will be rugged enough to withstand this? Or is the counter of this to always err on the side of caution?
- 2. C2 in the 21st century
 - Civilian control, military ownership
 - On safety/security, "Never" heavily emphasized
 On authority to use, "Always" emphasized

- 3. Who can authorize nuclear weapon use?
 - Has there been any effort for the nations to meet and come up with worldwide standard for who decides and how nuclear weapons are used?
 - Out of all the military people (i.e. launch officers) who you've talked to who said they would not say no to a nuclear launch, was this in reference to a retaliative or preemptive strike?