

# USS Abraham Lincoln

Mary Passage Middle  
School  
Lego Ship Repair  
Team



# Team Members

Exavier Bates

Asia Murrell

Elijah Mcleod

Alex Newell

Rachel Richards

Brenden Roessler



# Why we choose the USS Abraham Lincoln?

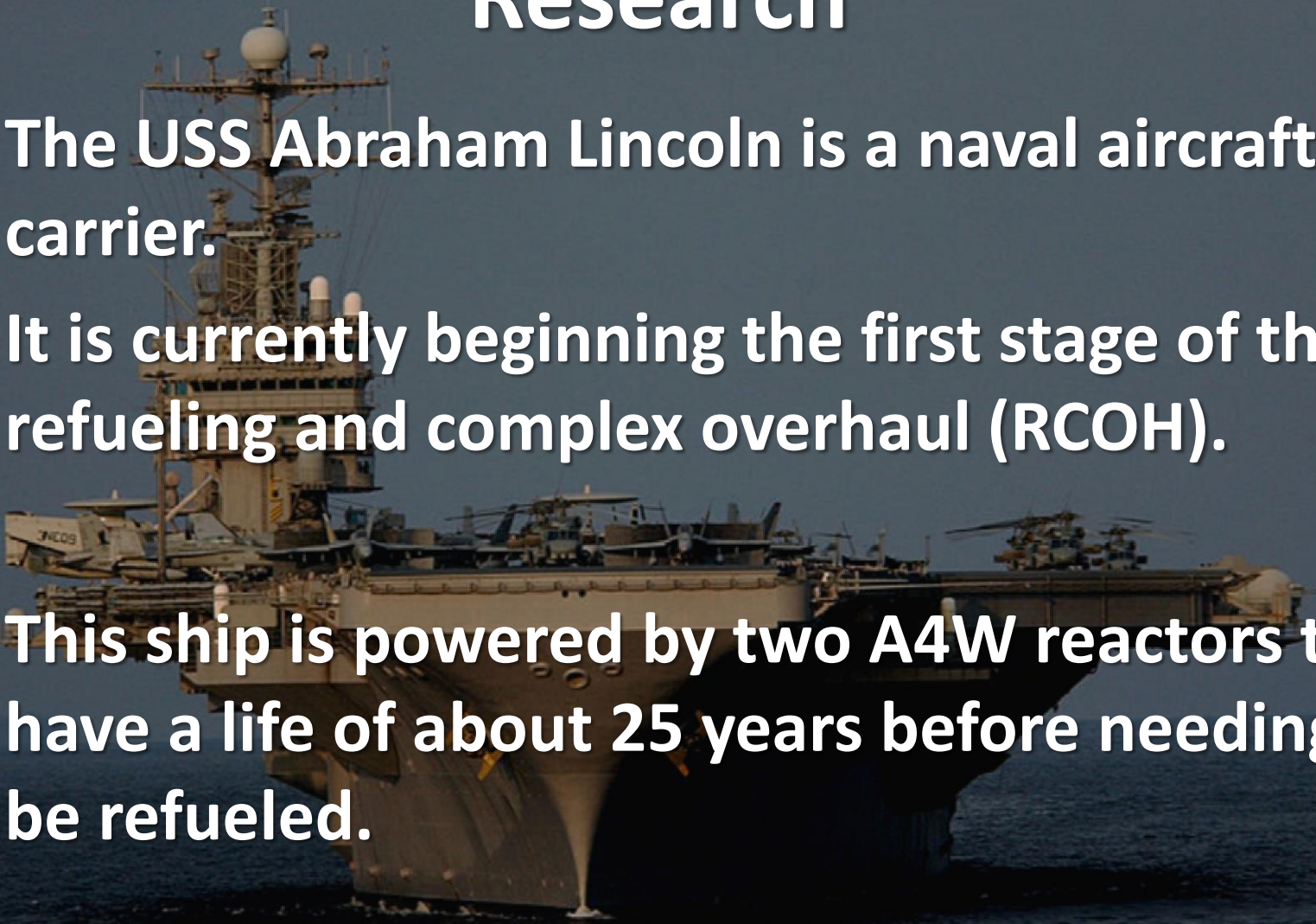
We choose the USS Abraham Lincoln because we had more connections and we knew a couple of people who have been on the ship. Furthermore, we know the importance of these aircraft carriers to the military and the local economy.





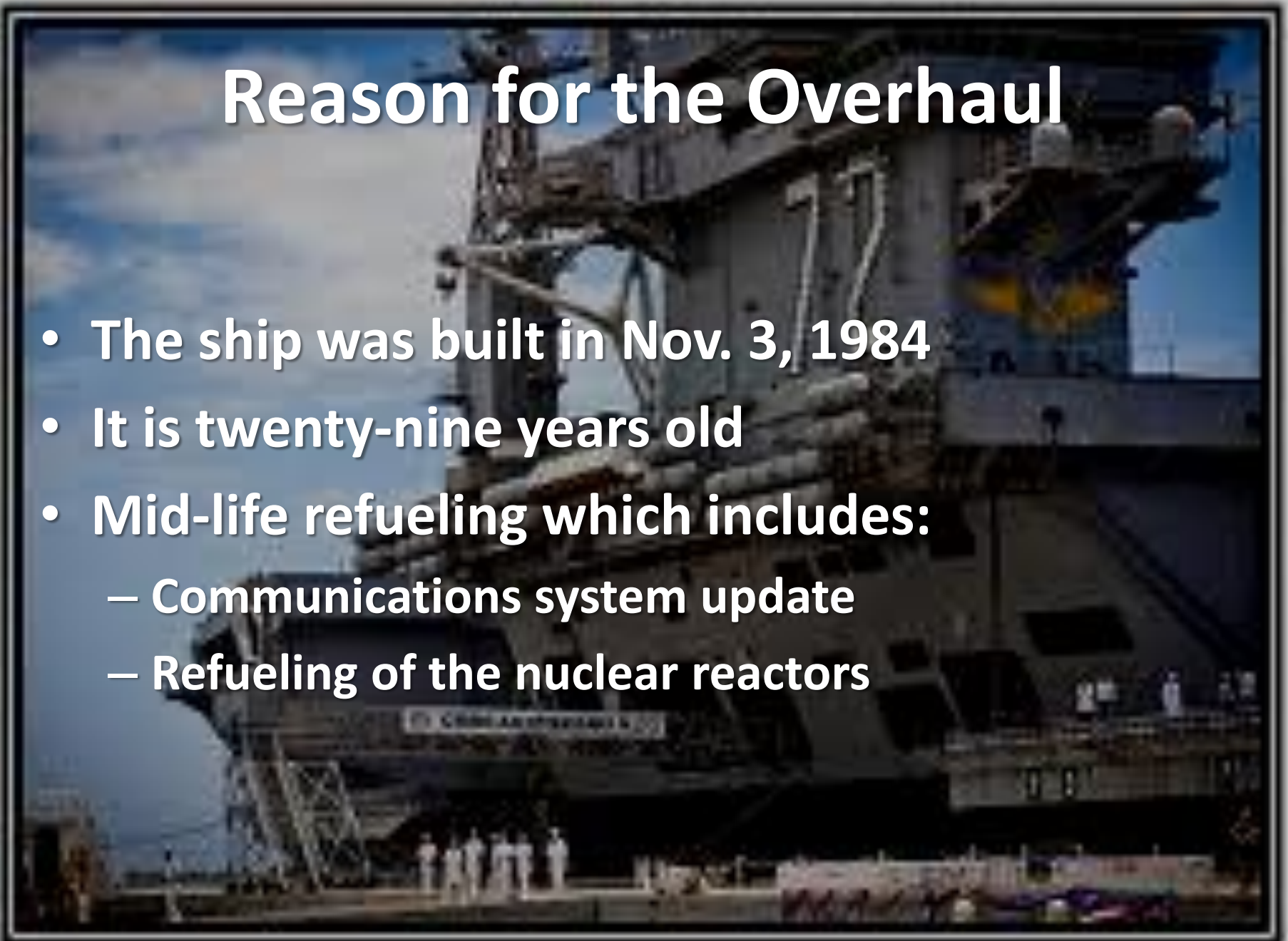
# Research

- The USS Abraham Lincoln is a naval aircraft carrier.
- It is currently beginning the first stage of the refueling and complex overhaul (RCOH).
- This ship is powered by two A4W reactors that have a life of about 25 years before needing to be refueled.



# Reason for the Overhaul

- The ship was built in Nov. 3, 1984
- It is twenty-nine years old
- Mid-life refueling which includes:
  - Communications system update
  - Refueling of the nuclear reactors



# Missions

- Operation Restore Hope
- Operation Iraqi Freedom
- Operation Enduring Freedom
- Operation Unified Assistance
- Assistance in Indian Ocean Earthquake
- Operation Infinite Reach





# USS ABRAHAM LINCOLN CREW STATISTICS

- Ship's crew members approximately 3,200
- Air wing members approximately 2,480
- First ship to integrate female sailors





**Lego Digital Designs**



# Side view

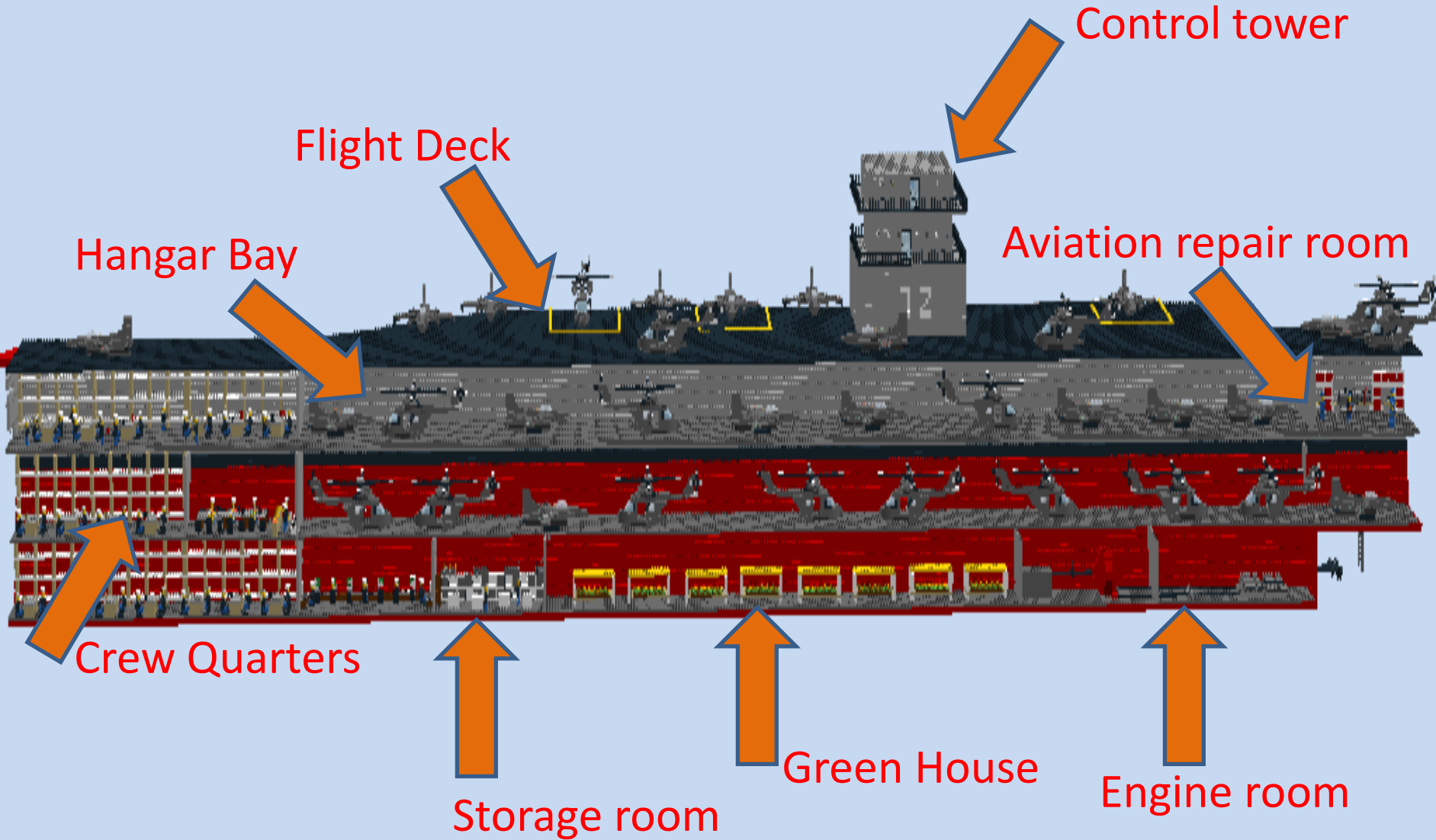


# Overhead view

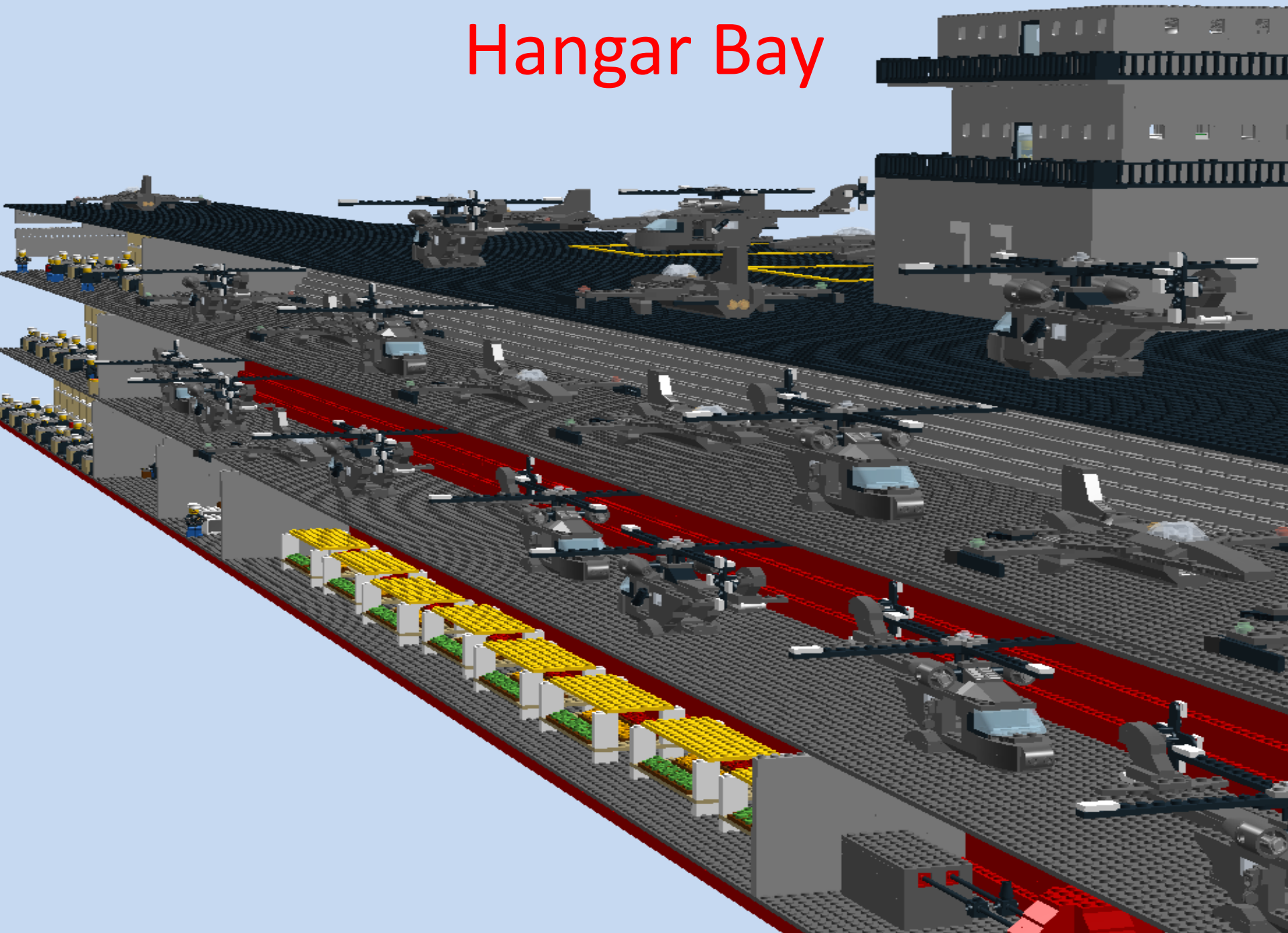




# Side view

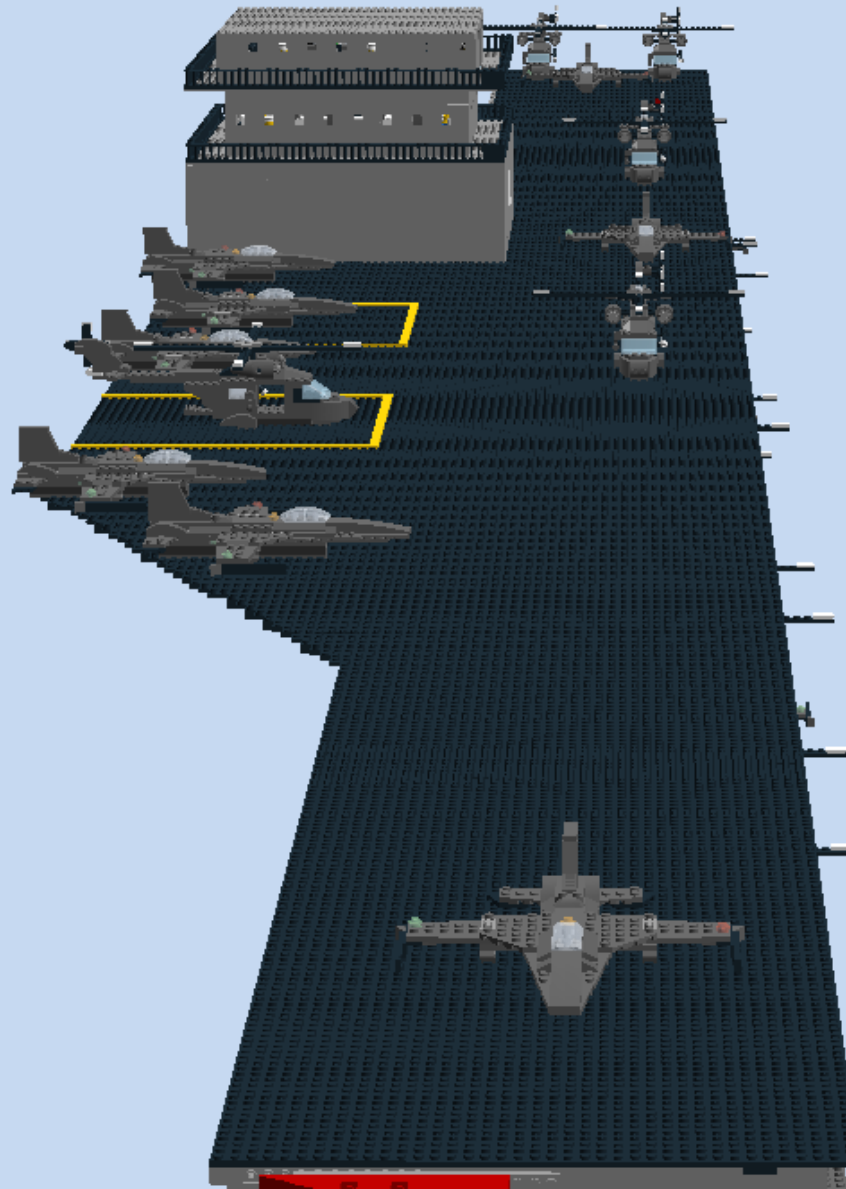


# Hangar Bay





# Flight deck

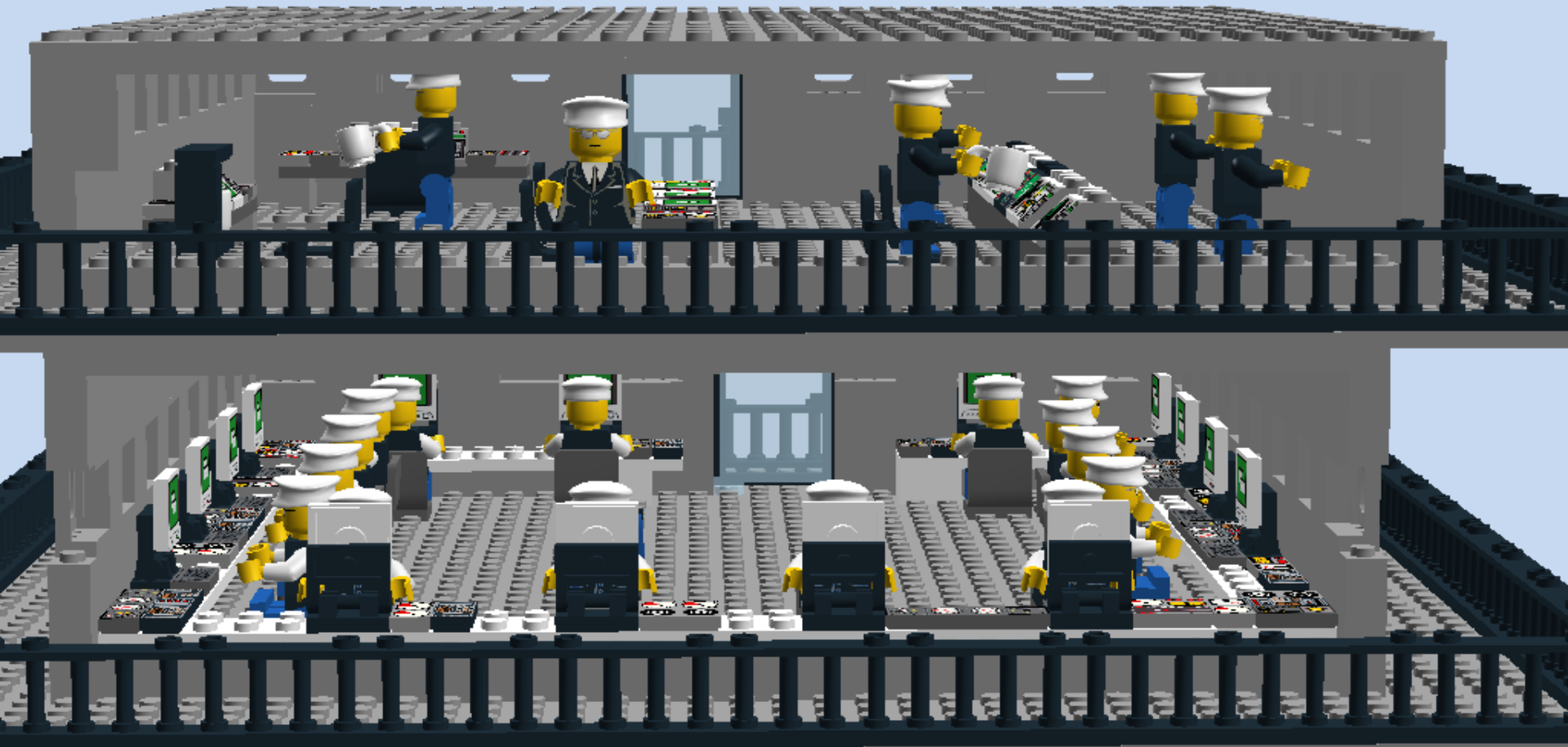


# Control tower





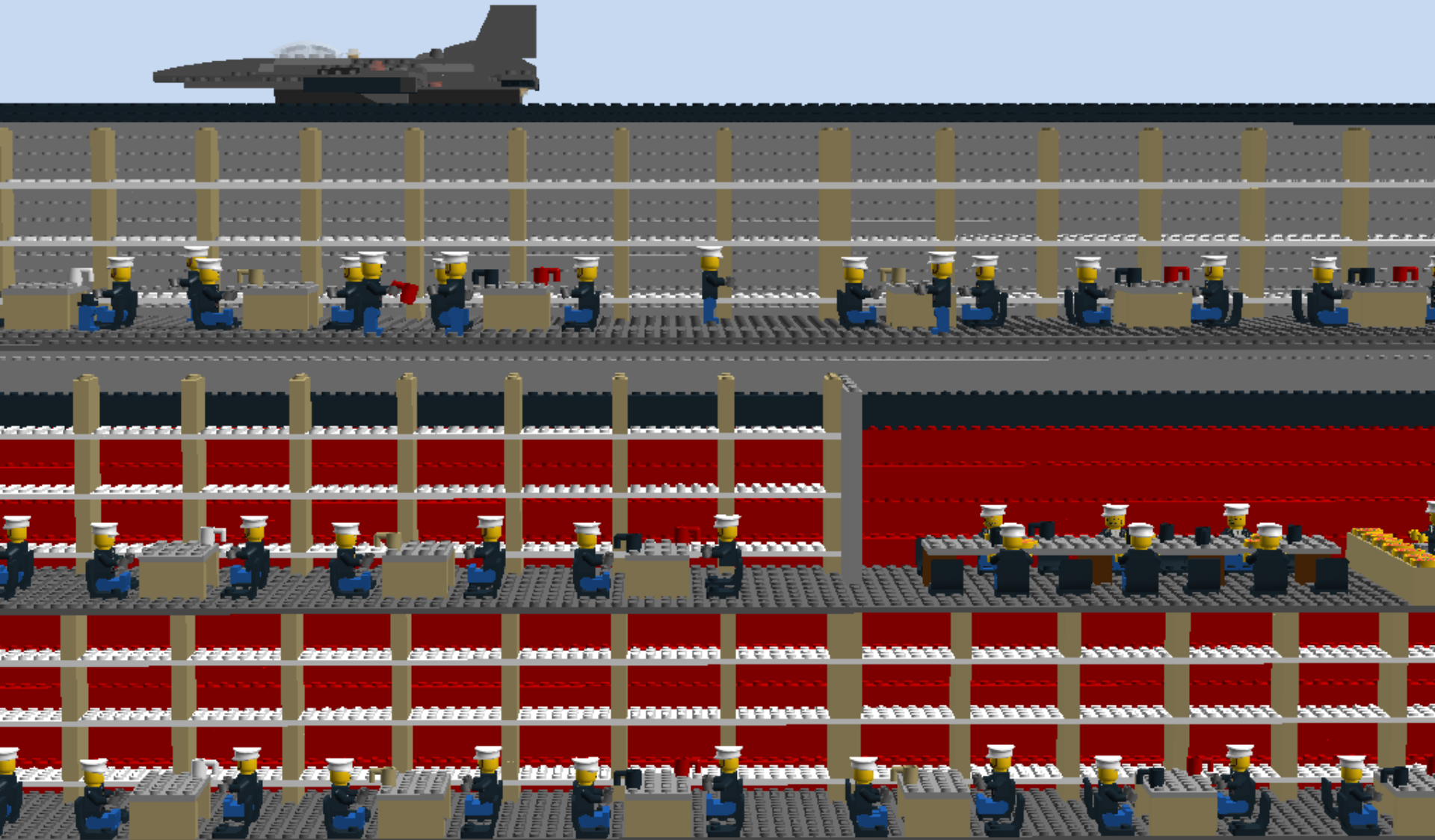
# Inside control tower



# Control room deck view

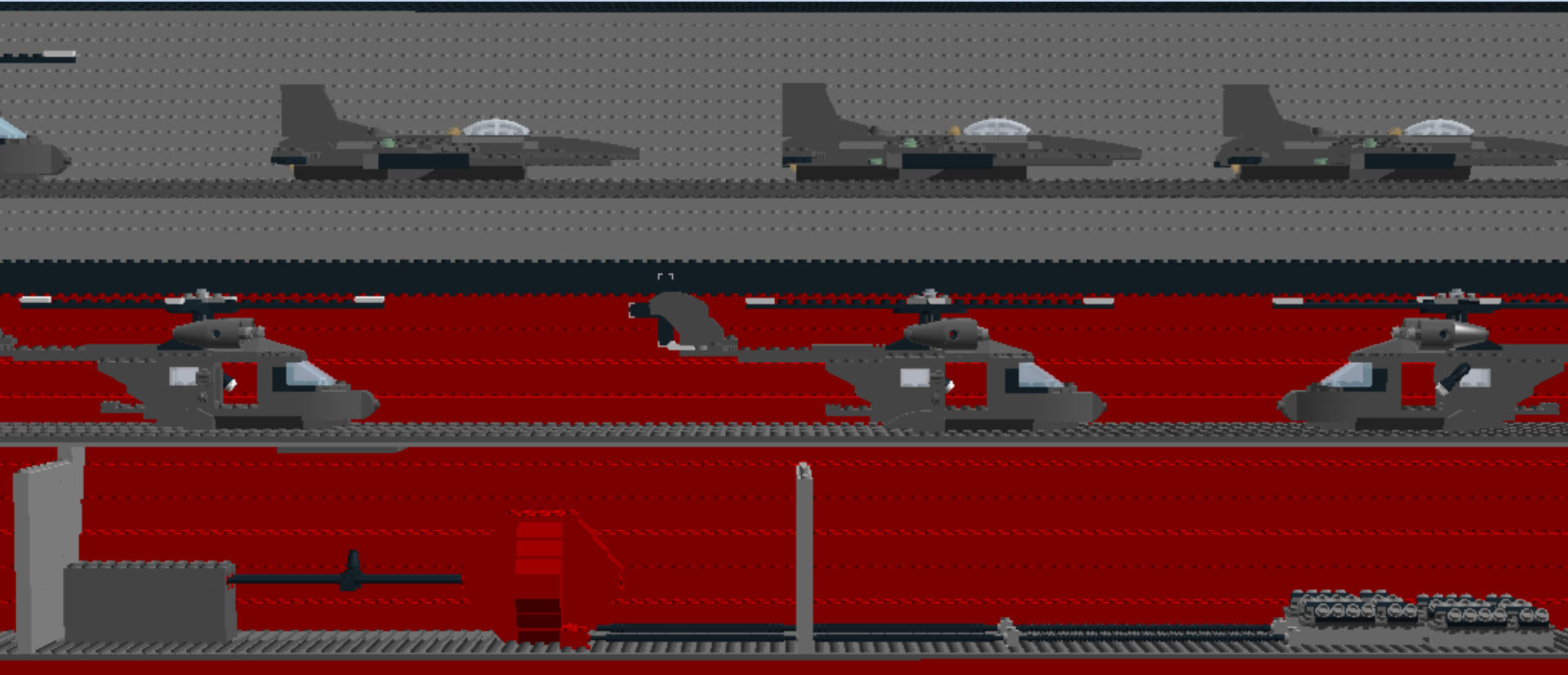


# Crews' Quarters





# Engine Room



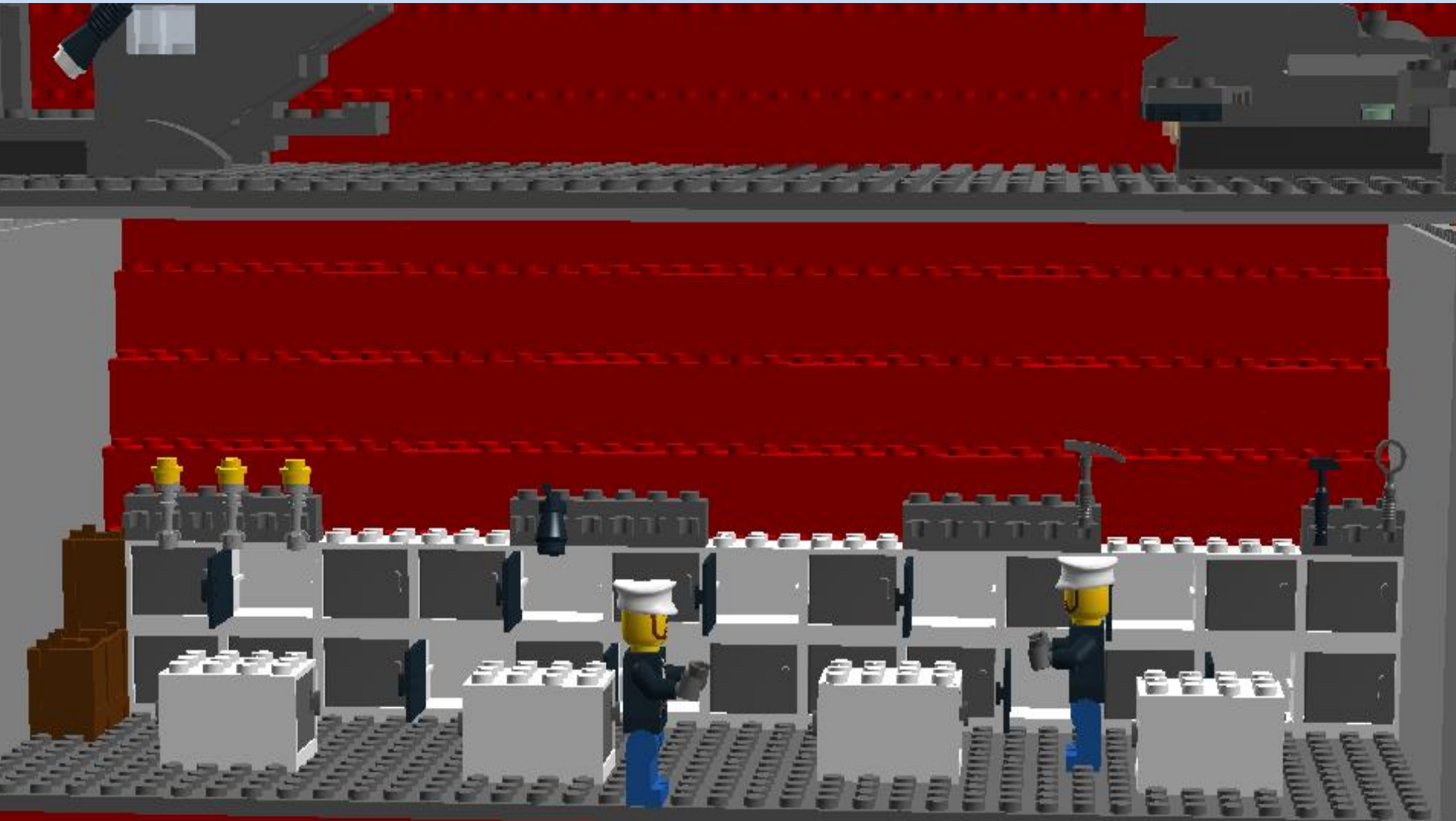
A4W nuclear reactors



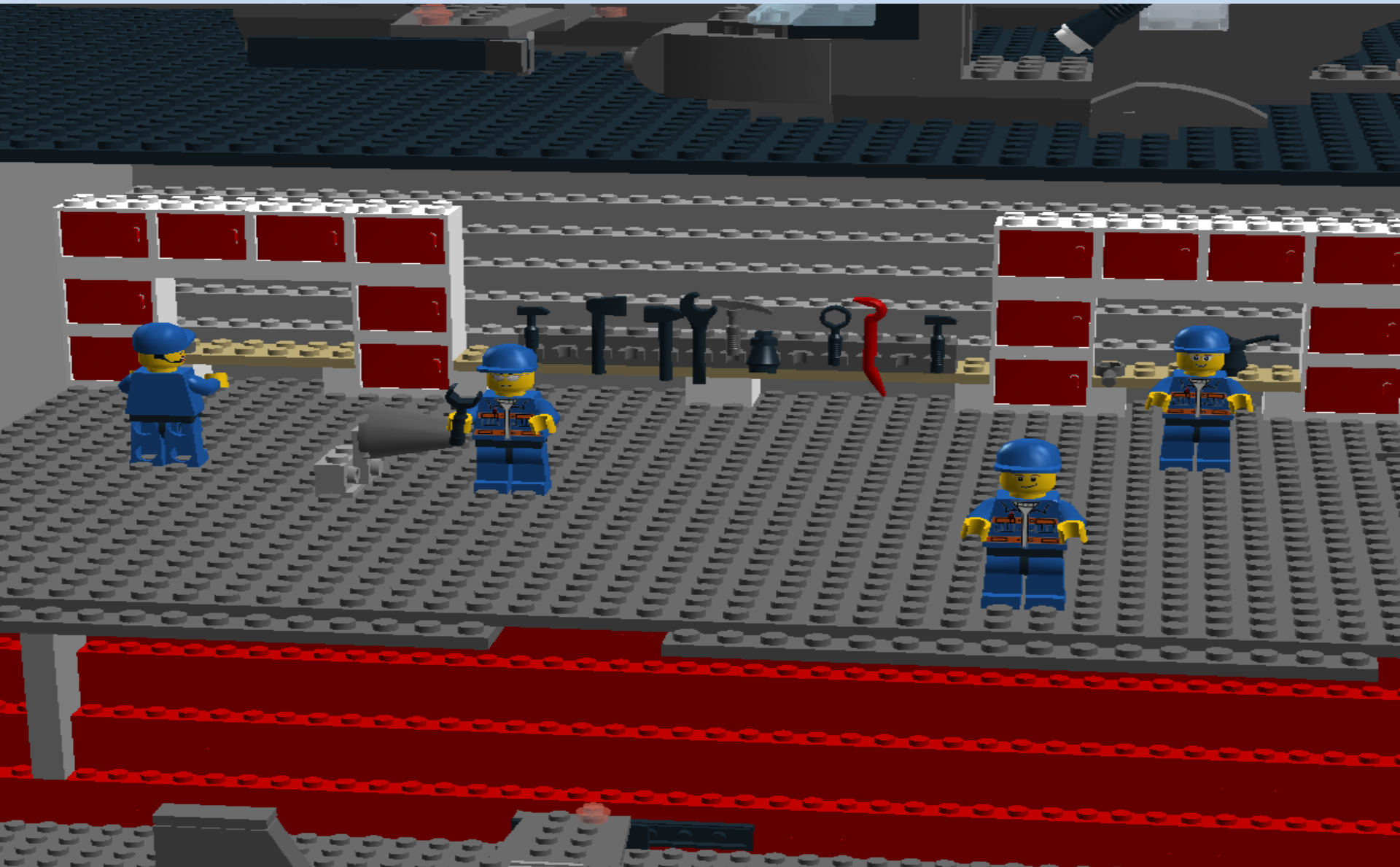
Engines that produce power from the steam



# Storage Rooms



# Aviation Repair Shop





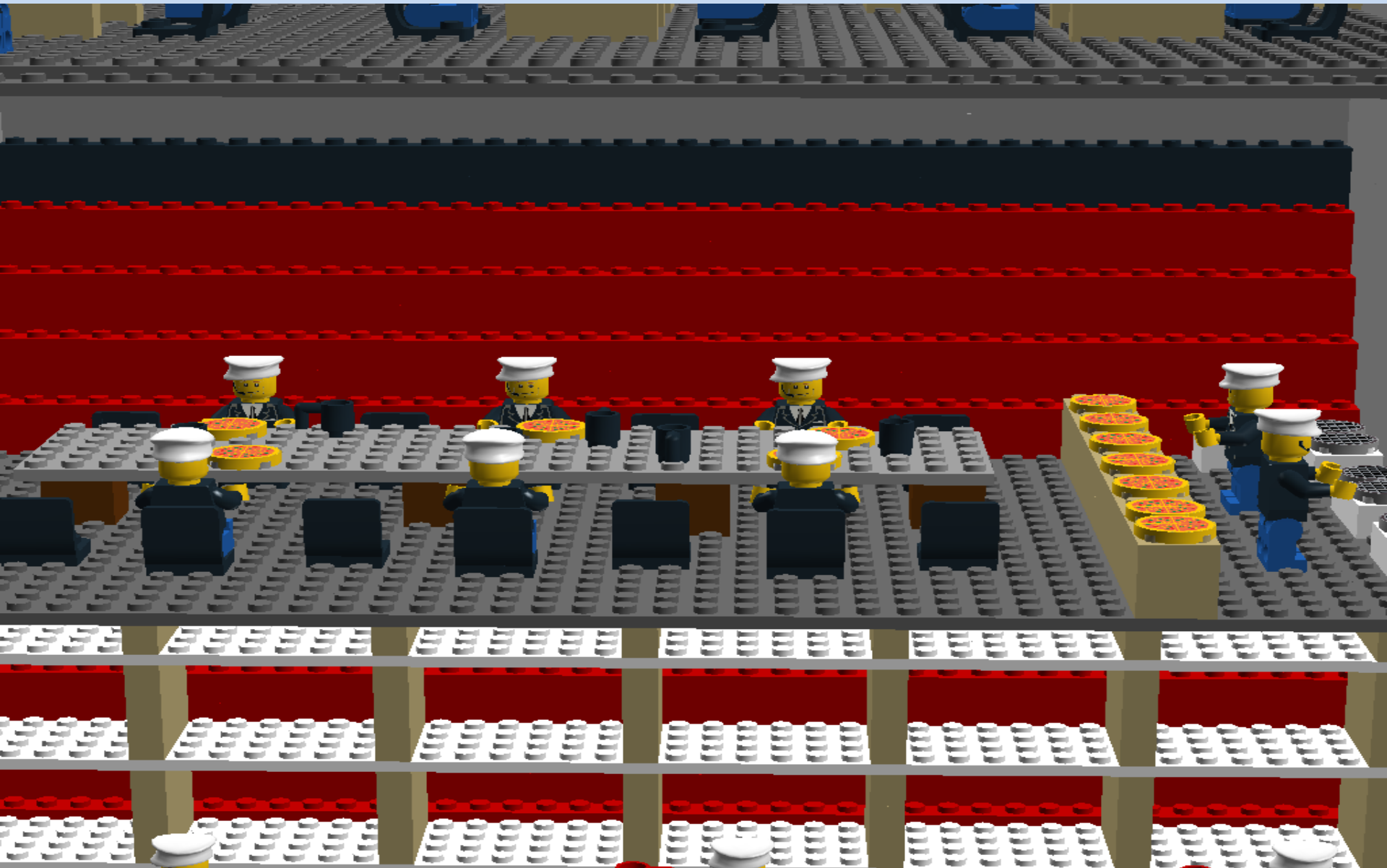
# Communications room



# Communications room



# Mess Hall





# Mess kitchen



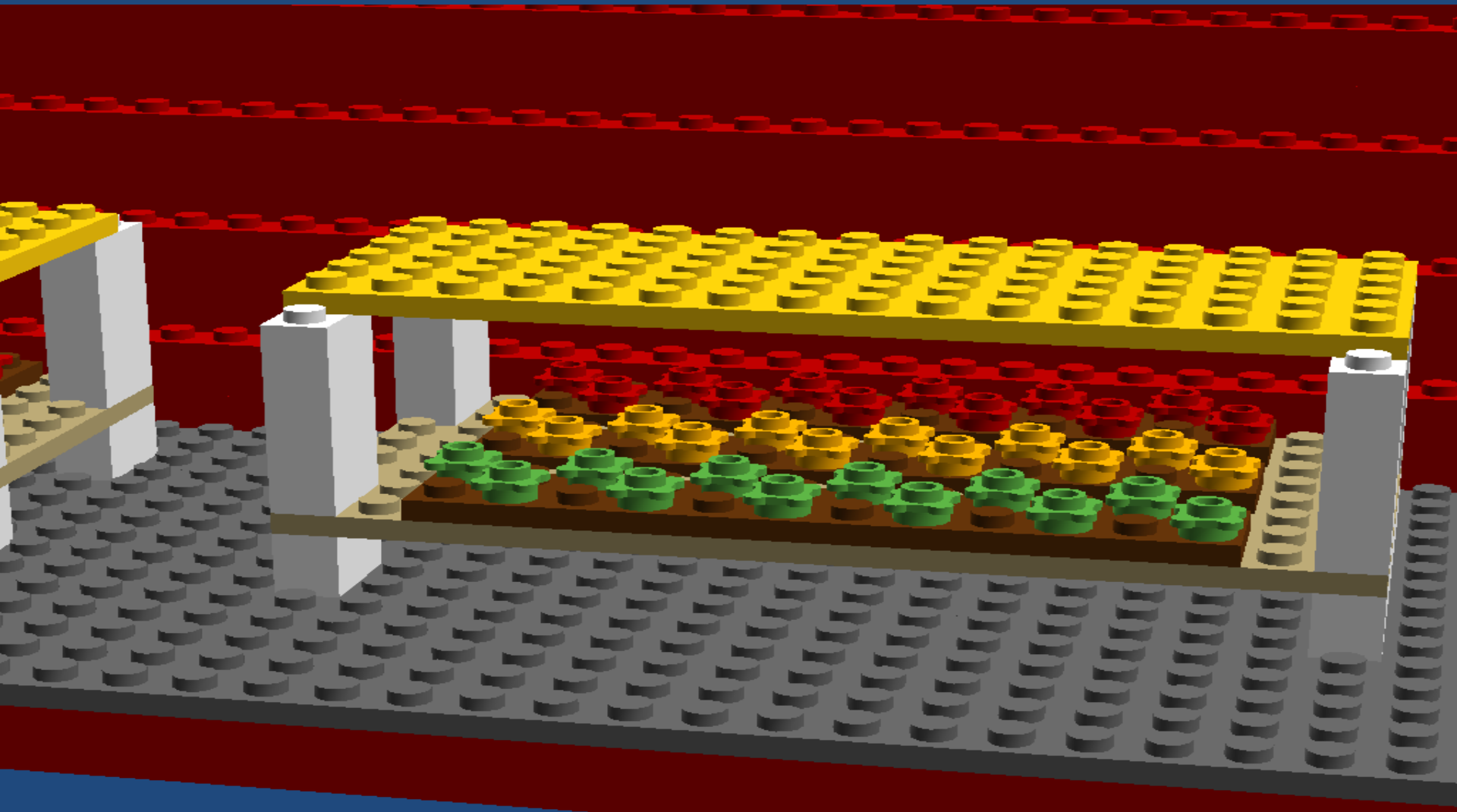
# Innovation



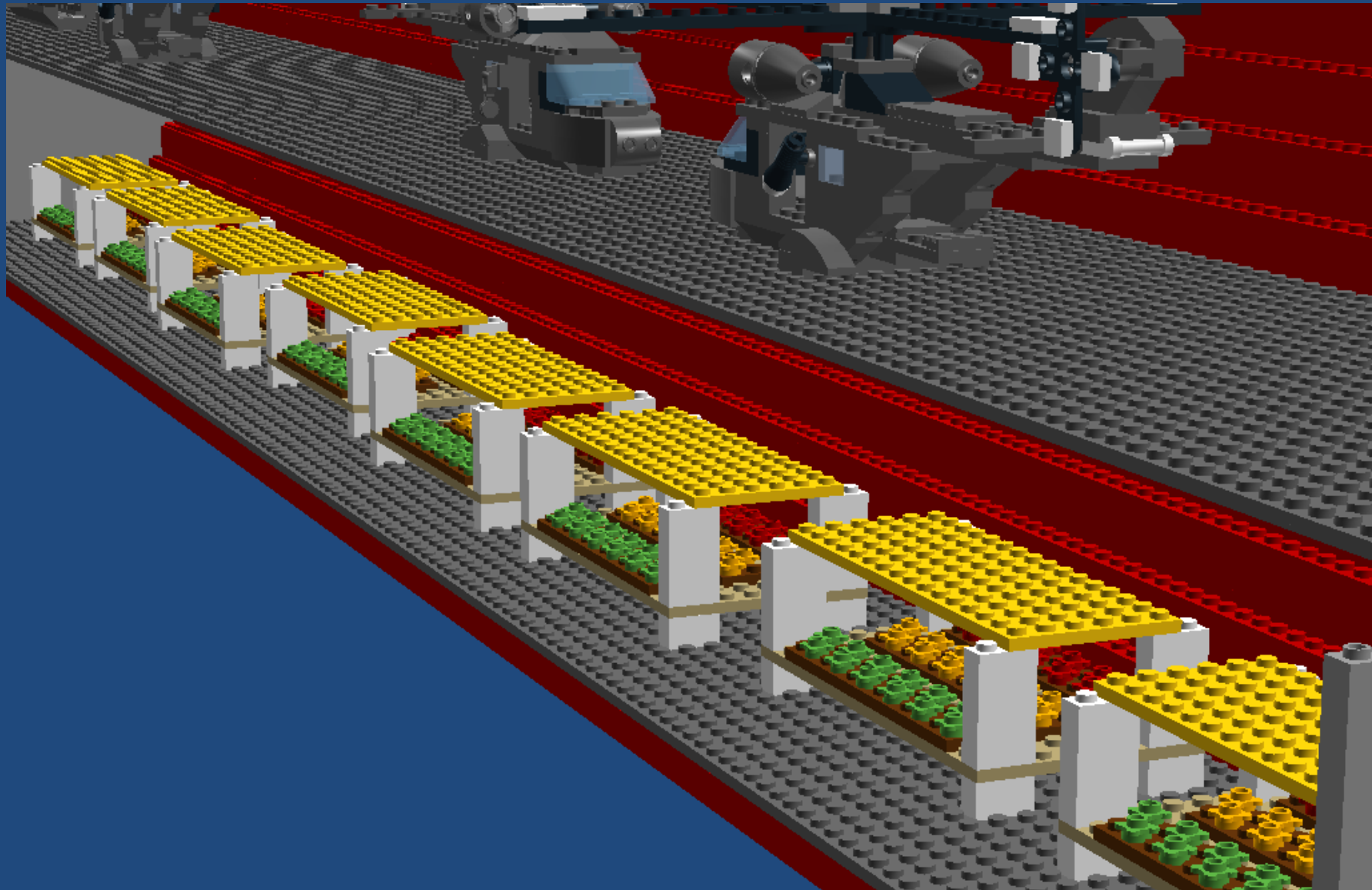
We choose to change the foods that are frozen like vegetables and fruits and designed a fresh green house garden



# Green House



# Green House



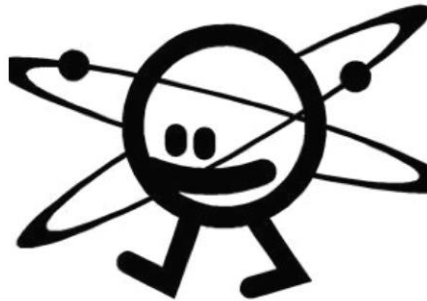




Jobs

# Nuclear Technicians

- Professional nuclear technicians are needed to safely take precautions in avoiding exposure to radiation when installing and updating the nuclear reactors.
- The job outlook for nuclear technicians is going to grow by 14%
- Annual wages of \$68,090
- Typically enter the occupation with an associate's degree in nuclear science or a nuclear-related technology



# Mechanical Engineers

- Mechanical engineers are needed to plan, design, and evaluate necessary machinery or structural flaws on the ship that will need to be upgraded, re-designed, or restored.
- The job outlook for this field is projected to increase by 9% in the next 10 years
- Annual wage of \$78,160
- Work in an office or off-site
- Mechanical engineers need at least a bachelor's degree





## Heating, Air Conditioning, and Refrigeration installers

- Will be needed to design the initial blueprint for the telecommunications network. They are needed to keep important information such as classified information safe from cyber- attacks on the ship.
- Their field of work is rapidly increasing and is expected to increase by 22% in the next 10 years
- Their average yearly salary is \$75,660
- Need to have a bachelor's degree



## Security Analyst, and Computer Network Architects

- Will be needed to work on heating, cooling, ventilation, and refrigeration systems that needs to be installed and updated.
- They work inside and it may be hot or cold
- Job outlook is expected to grow by about 30% in the next 10 years
- Average salary is about \$42,530
- Employers generally prefer applicants with postsecondary education or those who have completed a formal apprenticeship





Team Challenges



# Team Challenges

- Time management
- Computer problems
- Amount of time we could stay after school
- Having everybody there every practice





Team Learning



# Team Learning

- Learned to work with the Lego Digital Designer software
- We learned to work together as a team to meet deadlines



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