Problem
What: Problem(s)
- Planes collided, nuclear bomb jettisoned over ocean, never retrieved

When
- Date: February 5, 1958
- Time: 2:00 AM

Where
- Facility, site: Over Atlantic Ocean near Tybee Island (near Savannah, GA)

Impact to the Goals

<table>
<thead>
<tr>
<th>Safety</th>
<th>Customer Service</th>
<th>Property/ Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Danger to pilots</td>
<td>Residents nervous</td>
<td>Planes damaged</td>
</tr>
<tr>
<td>Danger to residents</td>
<td></td>
<td>Bomb missing</td>
</tr>
</tbody>
</table>

Problem Connector (A): Planes collided
- Nuclear bomb jettisoned
- Over ocean, never retrieved

Planes Connector (B): F-86 collided
- F-86 descended onto bomber
- F-86 pilot didn't see bomber on radar
- F-86 portraying enemy fighters

F-86 Connector (C): See same cause
- F-86 collided with B-47
- Bomb contained radioactive material

Customer Service
- Residents nervous

Safety Goal Impacted
- Planes collided
- Danger to pilots
- Danger to residents

Property Goal Impacted
- Planes damaged
- Bomb missing

Basic Level Cause Map - Start with simple Why questions.

Why?
- Why?
- Why?
- Why?

More Detailed Cause Map - Add detail as information becomes available.

Why?
- Why?
- Why?
- Why?

Potential for nuclear explosion/radiation
- Bomb jettisoned from plane

B-47 pilots had dangerous landing
- Planes damaged

Pilot ejected from F-86

Bomb contained radioactive material
- Routine to transport configured bombs
- Bomb jettisoned from plane

Pilot afraid bomb would break loose
- Bomb buried in mud

Evidence: F-86 left wing ripped off; B-47 fuel tanks heavily damaged.

Bad weather/vision during search
- Bomb never located

Search unsuccessful

F-86 collided with B-47

F-86 descended on bomber

F-86 pilot didn't see bomber on radar

F-86 portraying enemy fighters

Performing training exercises

Practice bombing Russia

Middle of Cold War

Why?
- Why?
- Why?
- Why?

A cold war nuclear bomb went missing because of a training exercise gone wrong. The pilot of the F-86 did not see the B-47 and jettisoned the bomb over the ocean, where it was never found. The search was unsuccessful due to bad weather and visibility. The Navy searched for the bomb for over two months, but it remained missing. It is currently unknown if the bomb is still missing or if it was buried deep in the mud.

“A clever person solves a problem. A wise person avoids it.” - Albert Einstein