

Dual Use Dilemma: A view from the ground...



National Science Advisory Board for Biosecurity
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Bioterrorism: *The “Unique” Threat ?*

- Dual-use facilities, equipment and people
 - Lack of real time detection capabilities
 - Extremely small “footprint”
 - Difficult forensics and potentially no attribution
- } *BW*
- } *BT*

The risk may be very, very low but the *potential* for harm is ENORMOUS!
...too great to ignore...

So....what is Special about Biological Weapons?

- Almost anyone could make weapons of some kind and hide the fact
- The agents have been, and will be, available from nature
- Tools of manipulation will become more widely available in future
- Technical understanding and capabilities will increase in future
- Agents and tools are and will therefore be:
 - Ubiquitous
 - Legal
 - Important to our well-being
- Therefore....INTENT becomes extremely important

...and more important as
technical barriers fall

We all have a Frame of Reference

- Mine:
 - Military Medical Biological Defense
 - Infectious Disease Research
 - UNSCOM, the 'Trilaterals' and CTR
- Yours:
 - Likely different

**Our Frames of reference
impact our perception of
intent**

The Dual-use Nature of:

- People
- Facilities
- Equipment

People







Prague, 1998

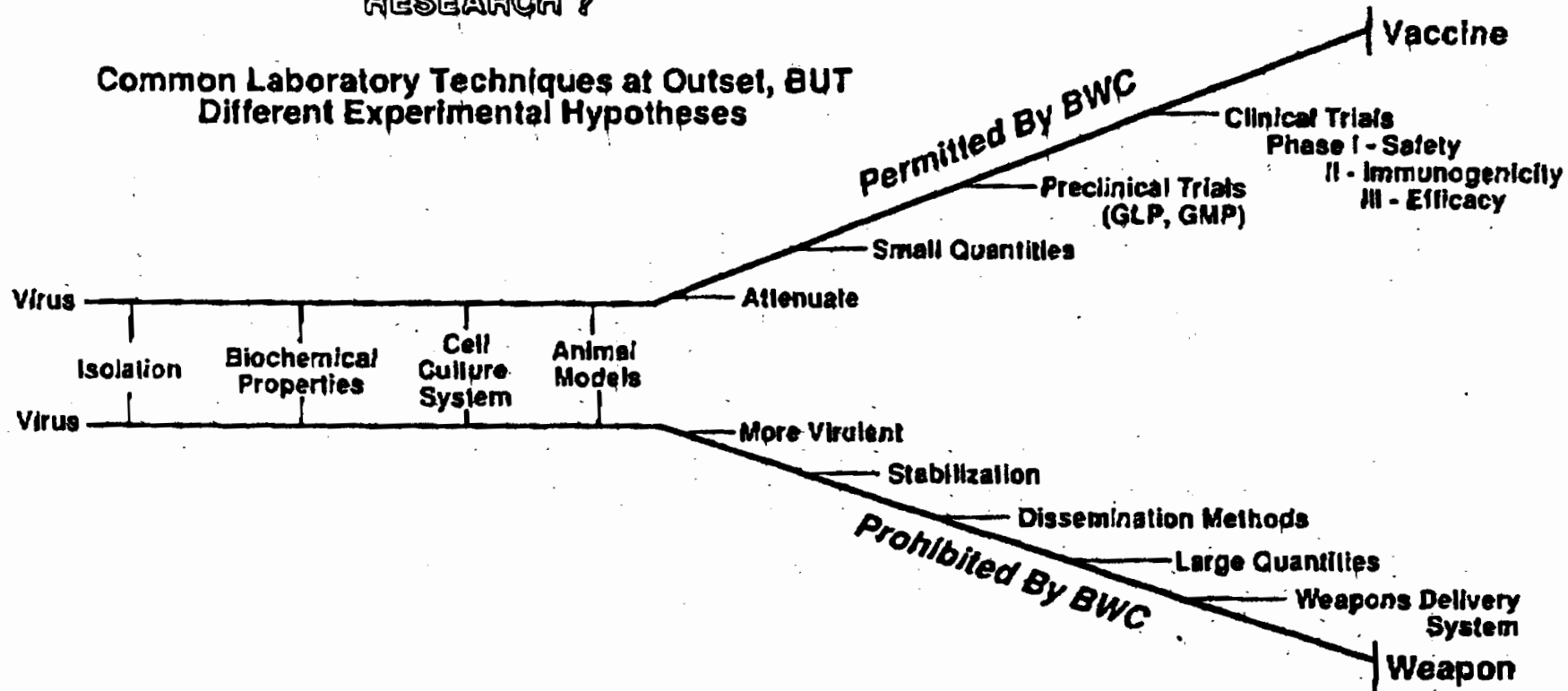
Facilities



Obolensk

DEFENSIVE OR OFFENSIVE RESEARCH ?

Common Laboratory Techniques at Outset, BUT Different Experimental Hypotheses



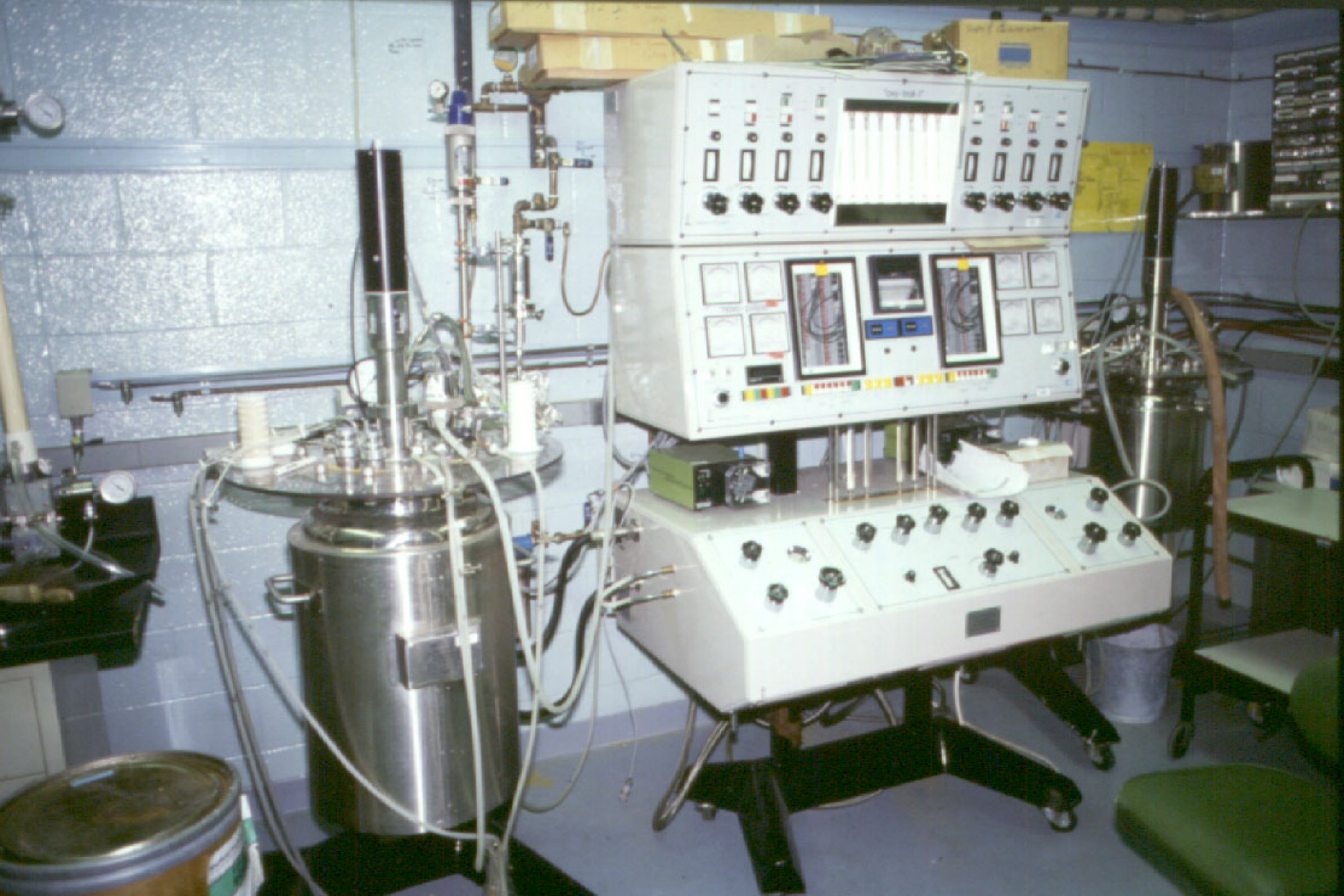
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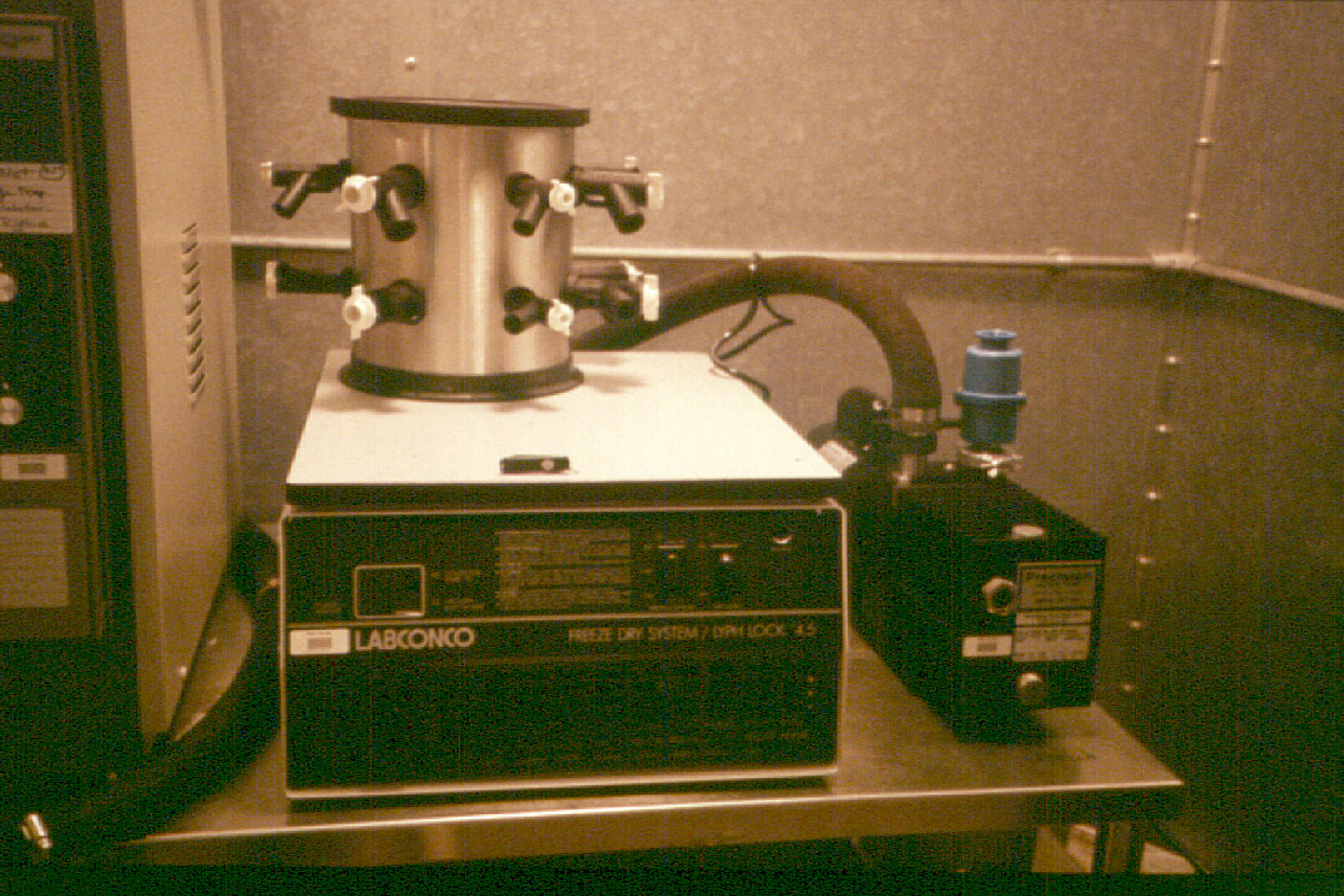
Equipment









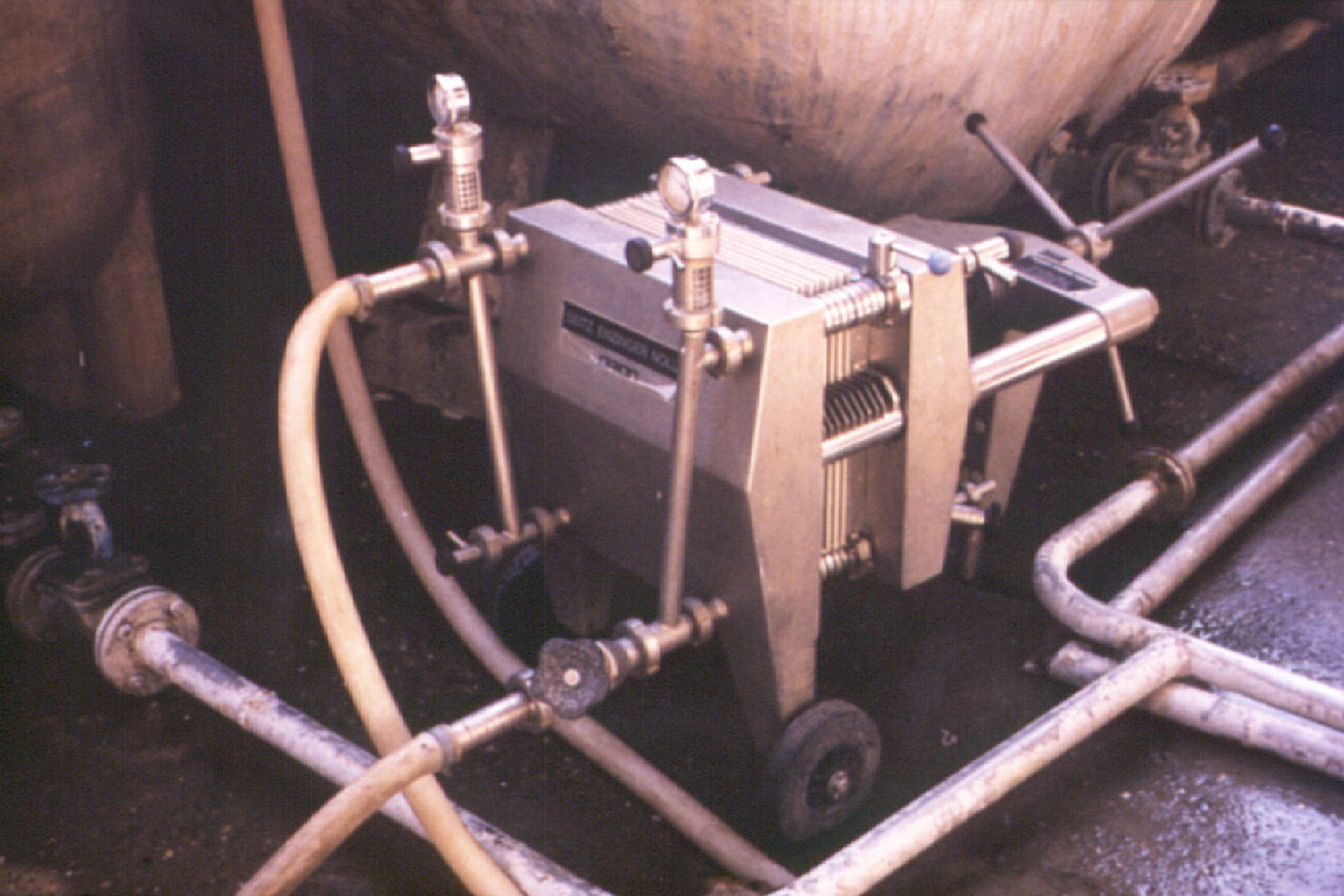


LABKONCO
FREEZE DRY SYSTEM 7 DRY LOCK 45













IR
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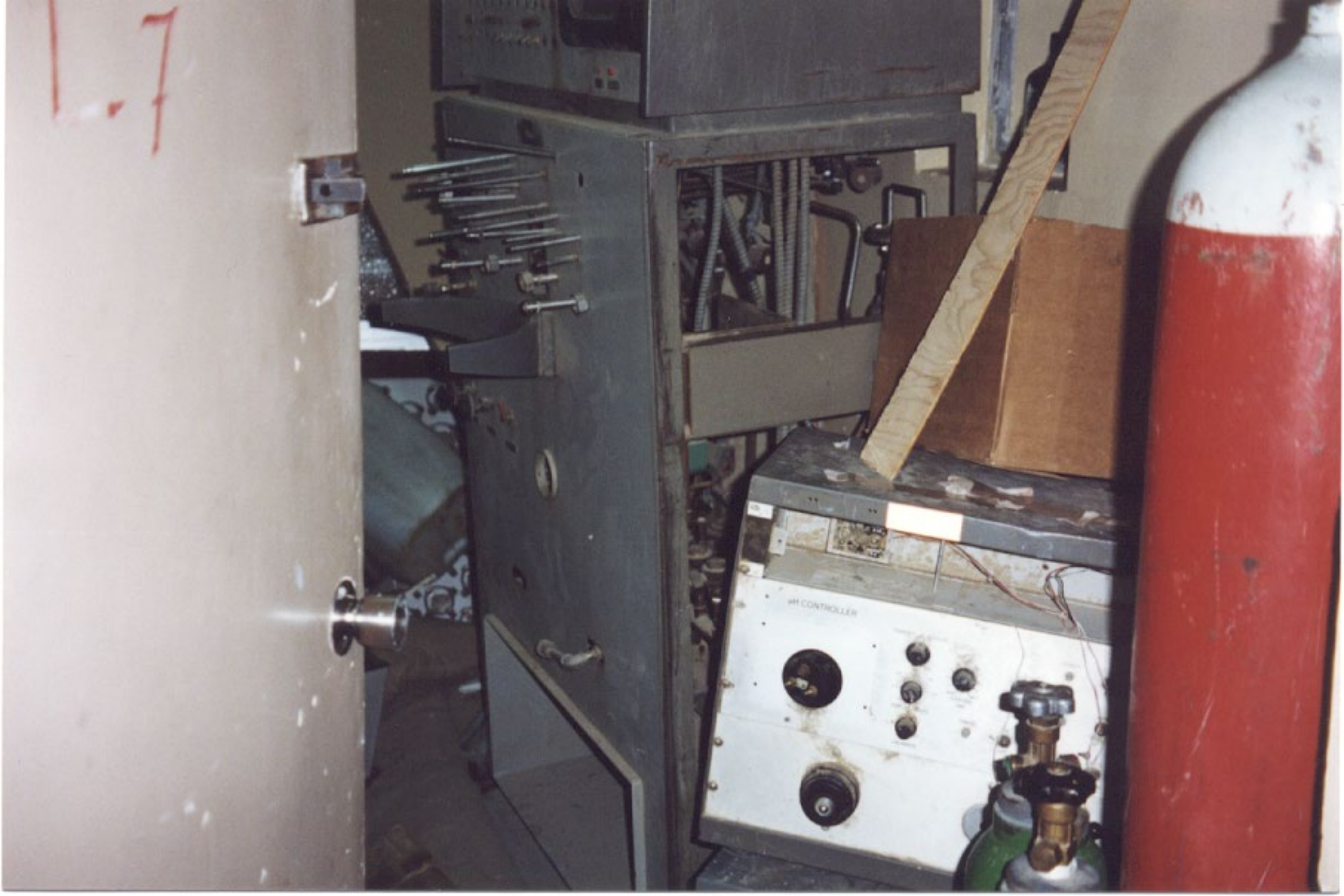
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HI CONTROLLER

Iraq and the FSU...and the 90s may have been 'the easy ones'

- The bugs are still available
- The technologies are getting better
- Our understanding is getting better
- The terrorist footprint is much smaller
- It's a much smaller world
- Intent is even more important

The Cost of Safety and Security?



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Regulation



The Cost of Safety and Security?

Regulation



Progress



The Cost of Safety and Security?

Regulation

Progress

Intent



The Cost of Safety and Security?

Regulation

Progress

Intent

Perception



The Cost of Safety and Security?

Regulation

Progress

Intent

Perception

Education



The Cost of Safety and Security?

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Perception

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Communication



The Cost of Safety and Security?

Regulation

Progress

Intent

Perception

Education

Communication

Balance

