



# SOTUGERES

**Société Tunisienne de gestion  
des risques en établissements de santé**

5ème Édition des Journées de la Qualité des Soins  
et de la Sécurité des Patients

*La standardisation du  
langage: outil inspiré de  
l'aéronautique.*

Le 08 novembre 2019

Dr Jérôme Cros

Limoges France



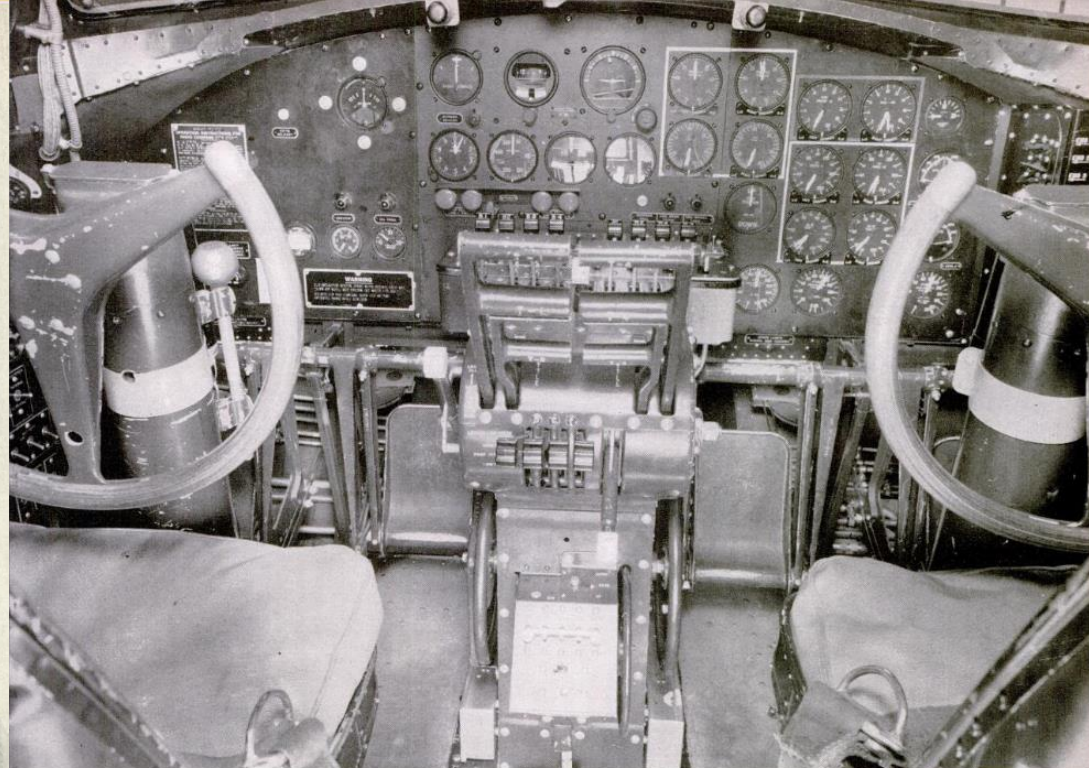


# LIFE



JOHNNY JEEP HATS

AUGUST 24, 1942 **10** CENTS  
YEARLY SUBSCRIPTION \$4.50



FLYING FORTRESS INSTRUMENT BOARD: FLIGHT INSTRUMENT DIALS IN MIDDLE PANEL, ENGINE DIALS AT RIGHT. CENTER ARE THROTTLE HANDLES, ONE FOR EACH OF FOUR ENGINES

## COCKPIT CONVERSATION

Pilot and copilot check on everything before taking on the complicated job of flying a four-engine bomber

Every day now, at some U. S. Army Air Force School, some training pilot is learning how to handle a four-engine bomber. He climbs into the big plane, crowds into the left-hand cockpit seat and there is confronted by the big and complicated instrument board shown above. Under his hands are bunches of buttons and levers. At his side sits a copilot. By manipulating the levers, pushing the switches and watching the instrument dials, he learns the complex job of piloting a Flying Fortress. Ready to take off, he checks with the copilot and this is the conversation that always follows:

"Check list," says the pilot. His copilot fishes out a printed form from a briefcase.

"Gear switch?" asks the copilot.

"Neutral," replies the pilot.

"Fuel-transfer valves and pump?"

"Off."

"Hydraulic pressure?"

"Okay."

"Hydraulic selector is normal. Intercoolers are cold. Hand primer is off. Parking brake is on. Gyros?"

"Uncaged."

"Cowl flaps are open right."

"Open left."

"Now locked. Fuel shut-off switches?"

"On."

"Booster pumps?"

"On."

"Superchargers?"

"Off."

"Throttles?"

"Closed."

"Propellers?"

"High R.P.M."

"Flight controls?"

"Unlocked, checked."

"Clear in front?"

"Okay left."

"Okay right," adds the copilot. "Master switch?"

"On."

"Ignition switches?"

"On."

"Battery switches?"

"On."

"Generator switches?"

"Off."

"Inverter?"

"On, alternate checked."

"Fuel quantity?"

"Sufficient."

"Fire extinguisher okay. Selector No. 1 engine on."

The pilot starts No. 1 engine. It protests, coughs, catches.

"Oil pressure No. 1?"

"Coming up."

They repeat starting procedure on engines No. 2, 3 and 4.

"Hydraulic valve normal," singsongs copilot. "Intercoolers, cold. Booster pumps?"

"On."

"Cowl flaps open right."

"Open left."

"Locked. Propellers?"

"High R.P.M."

"Battery switches?"

"On."

"Radio on. Mixture controls?"

"Automatic rich."

"Wing flaps, checked. Hydraulic pressure?"

"Okay."

"Trim tabs?"

"Set for take-off."

"Altimeter?"

"Set."

"Crew aboard?" yells the pilot back through the cavern of the bomber's interior.

"Aboard, sir" responds the crew chief. The pilot presses a microphone to his mouth, checks with the control tower, receives permission to taxi out to the runway.

"Wheel checks out right," says the copilot.

"Out left."

"Tail wheel unlocked. Brakes, standing by."

Clumsily, hesitantly, the bomber picks its way among planes on either side out to the border of the take-off runway.

"Brakes locked," drones the copilot.

"Magneto?"

"Checked."

"Superchargers?"

"Set."

"Engines?"

"Run up."

"Flight controls?"

"Unlocked and free."

The pilot again checks with the control tower, receives permission to take off.

"Brakes?"

"Unlocked."

The plane creeps out on the runway, wheels into the wind.

"Tail wheel locked," says the copilot.

"Generators?"

"On."

Pilot grasps control wheel firmly with his left hand, four throttles with his right. Now—and only now—he is ready to lift the Flying Fortress into the air.



# APPROVED B-17F and G CHECKLIST

REVISED 3-1-44

PILOT'S DUTIES IN RED  
COPILOT'S DUTIES IN BLACK

## BEFORE STARTING

1. Pilot's Preflight—COMPLETE
2. Form 1A—CHECKED
3. Controls and Seats—CHECKED
4. Fuel Transfer Valves & Switch—OFF
5. Intercoolers—Cold
6. Gyros—UNCAGED
7. Fuel Shut-off Switches—OPEN
8. Gear Switch—NEUTRAL
9. Cowl Flaps—Open Right—  
OPEN LEFT—Locked
10. Turbos—OFF
11. Idle cut-off—CHECKED
12. Throttles—CLOSED
13. High RPM—CHECKED
14. Autopilot—OFF
15. De-icers and Anti-icers, Wing and  
Prop—OFF
16. Cabin Heat—OFF
17. Generators—OFF

## STARTING ENGINES

1. Fire Guard and Call Clear—LEFT Right
2. Master Switch—ON
3. Battery switches and inverters—ON &  
CHECKED
4. Parking Brakes—Hydraulic Check—On-  
CHECKED
5. Booster Pumps—Pressure—ON &  
CHECKED
6. Carburetor Filters—Open
7. Fuel Quantity—Gallons per tank
8. Start Engines: both magnetos on  
after one revolution
9. Flight Indicator & Vacuum Pressures  
CHECKED
10. Radio—On
11. Check Instruments—CHECKED
12. Crew Report
13. Radio Call & Altimeter—SET

## ENGINE RUN-UP

1. Brakes—Locked
2. Trim Tabs—SET
3. Exercise Turbos and Props
4. Check Generators—CHECKED & OFF
5. Run up Engines

## BEFORE TAKEOFF

1. Tailwheel—Locked
2. Gyro—Set
3. Generators—ON

## AFTER TAKEOFF

1. Wheel—PILOT'S SIGNAL
2. Power Reduction
3. Cowl Flaps
4. Wheel Check—OK right—OK LEFT

## BEFORE LANDING

1. Radio Call, Altimeter—SET
2. Crew Positions—OK
3. Autopilot—OFF
4. Booster Pumps—On
5. Mixture Controls—AUTO-RICH
6. Intercooler—Set
7. Carburetor Filters—Open
8. Wing De-icers—Off
9. Landing Gear
  - a. Visual—Down Right—DOWN LEFT  
Tailwheel Down, Antenna in, Ball  
Turret Checked
  - b. Light—OK
  - c. Switch Off—Neutral
10. Hydraulic Pressure—OK Valve closed
11. RPM 2100—Set
12. Turbos—Set
13. Flaps  $\frac{1}{2}$ — $\frac{1}{2}$  Down

## FINAL APPROACH

14. Flaps—PILOT'S SIGNAL
15. RPM 2200—PILOT'S SIGNAL

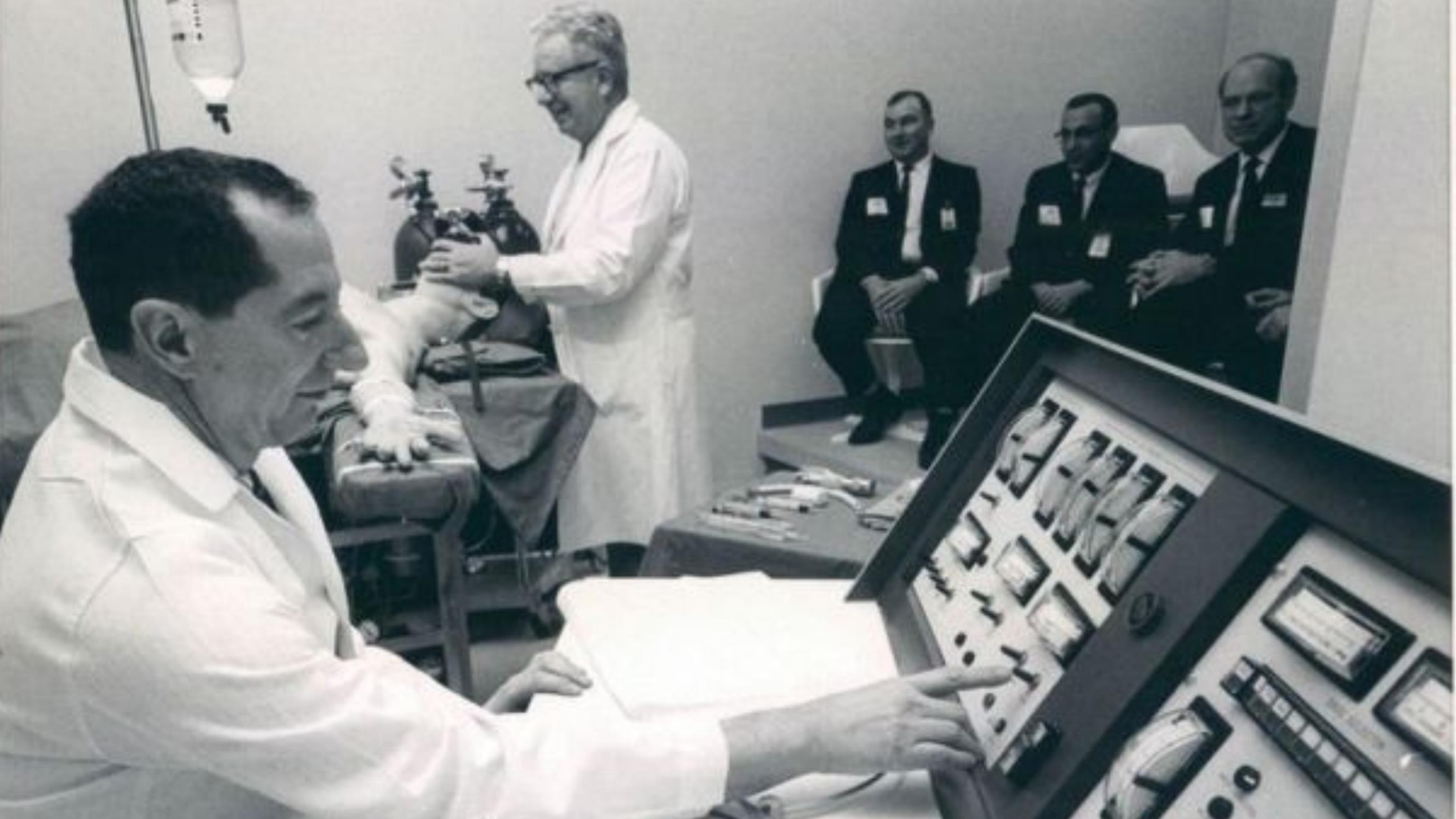
# SURGICAL SAFETY CHECKLIST (FIRST EDITION)

Before induction of anaesthesia ▶▶▶▶▶▶▶▶ Before skin incision ▶▶▶▶▶▶▶▶▶▶▶▶▶▶ Before patient leaves operating room

SIGN IN	TIME OUT	SIGN OUT
<input type="checkbox"/> <b>PATIENT HAS CONFIRMED</b> <ul style="list-style-type: none"> <li>• IDENTITY</li> <li>• SITE</li> <li>• PROCEDURE</li> <li>• CONSENT</li> </ul>	<input type="checkbox"/> <b>CONFIRM ALL TEAM MEMBERS HAVE INTRODUCED THEMSELVES BY NAME AND ROLE</b>	<b>NURSE VERBALLY CONFIRMS WITH THE TEAM:</b>
<input type="checkbox"/> <b>SITE MARKED/NOT APPLICABLE</b>	<input type="checkbox"/> <b>SURGEON, ANAESTHESIA PROFESSIONAL AND NURSE VERBALLY CONFIRM</b> <ul style="list-style-type: none"> <li>• PATIENT</li> <li>• SITE</li> <li>• PROCEDURE</li> </ul>	<input type="checkbox"/> <b>THE NAME OF THE PROCEDURE RECORDED</b>
<input type="checkbox"/> <b>ANAESTHESIA SAFETY CHECK COMPLETED</b>		<input type="checkbox"/> <b>THAT INSTRUMENT, SPONGE AND NEEDLE COUNTS ARE CORRECT (OR NOT APPLICABLE)</b>
<input type="checkbox"/> <b>PULSE OXIMETER ON PATIENT AND FUNCTIONING</b>	<b>ANTICIPATED CRITICAL EVENTS</b>	<input type="checkbox"/> <b>HOW THE SPECIMEN IS LABELLED (INCLUDING PATIENT NAME)</b>
<b>DOES PATIENT HAVE A:</b>	<input type="checkbox"/> <b>SURGEON REVIEWS: WHAT ARE THE CRITICAL OR UNEXPECTED STEPS, OPERATIVE DURATION, ANTICIPATED BLOOD LOSS?</b>	<input type="checkbox"/> <b>WHETHER THERE ARE ANY EQUIPMENT PROBLEMS TO BE ADDRESSED</b>
<b>KNOWN ALLERGY?</b>	<input type="checkbox"/> <b>ANAESTHESIA TEAM REVIEWS: ARE THERE ANY PATIENT-SPECIFIC CONCERNS?</b>	<input type="checkbox"/> <b>SURGEON, ANAESTHESIA PROFESSIONAL AND NURSE REVIEW THE KEY CONCERNS FOR RECOVERY AND MANAGEMENT OF THIS PATIENT</b>
<input type="checkbox"/> NO <input type="checkbox"/> YES	<input type="checkbox"/> <b>NURSING TEAM REVIEWS: HAS STERILITY (INCLUDING INDICATOR RESULTS) BEEN CONFIRMED? ARE THERE EQUIPMENT ISSUES OR ANY CONCERNS?</b>	
<b>DIFFICULT AIRWAY/ASPIRATION RISK?</b>	<b>HAS ANTIBIOTIC PROPHYLAXIS BEEN GIVEN WITHIN THE LAST 60 MINUTES?</b>	
<input type="checkbox"/> NO <input type="checkbox"/> YES, AND EQUIPMENT/ASSISTANCE AVAILABLE	<input type="checkbox"/> YES <input type="checkbox"/> NOT APPLICABLE	
<b>RISK OF &gt;500ML BLOOD LOSS (7ML/KG IN CHILDREN)?</b>	<b>IS ESSENTIAL IMAGING DISPLAYED?</b>	
<input type="checkbox"/> NO <input type="checkbox"/> YES, AND ADEQUATE INTRAVENOUS ACCESS AND FLUIDS PLANNED	<input type="checkbox"/> YES <input type="checkbox"/> NOT APPLICABLE	







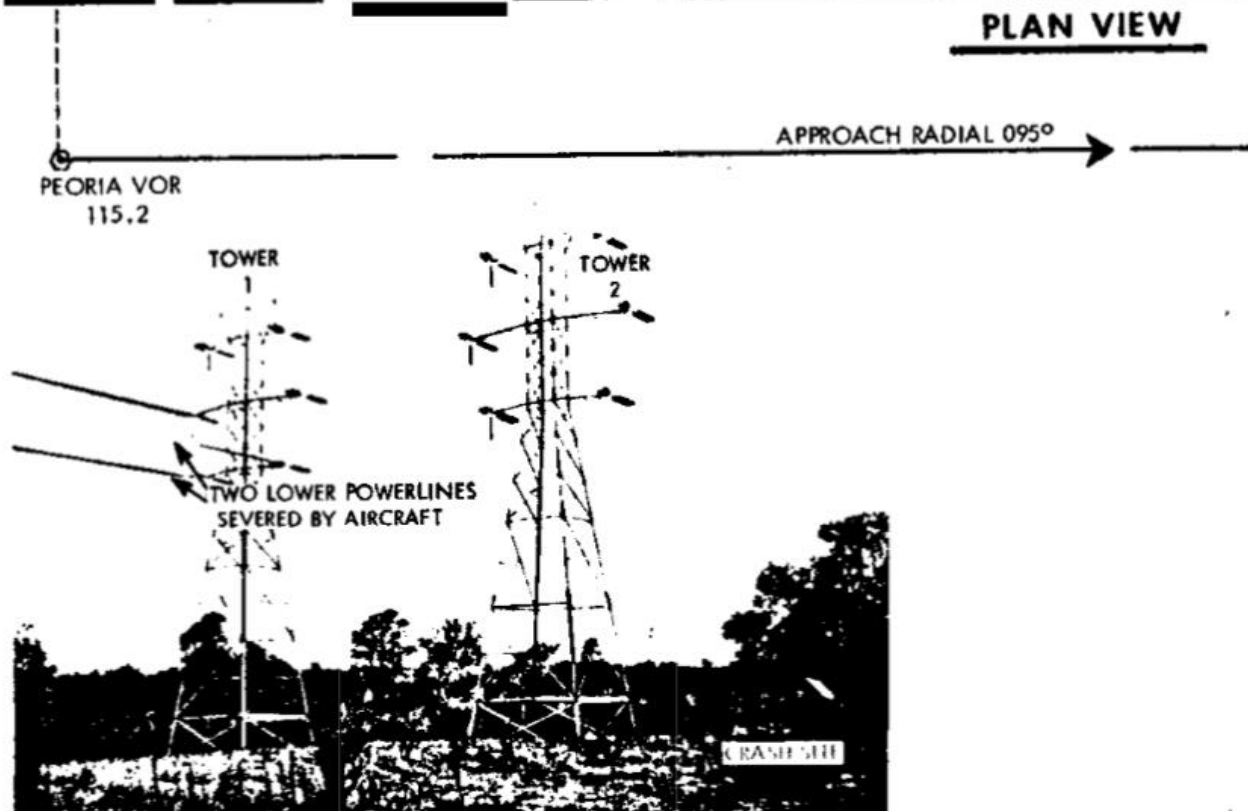
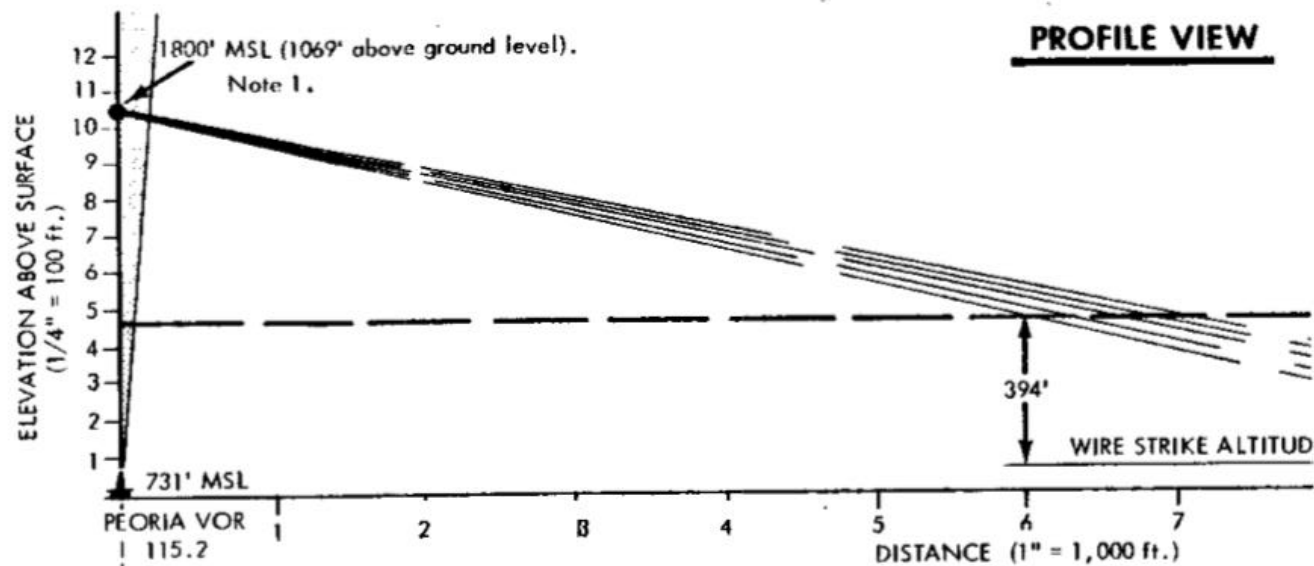
## NOTES

1. Descent profiles based on VOR departure at 1800' MSL, and a constant descent rate of approximately 1000 feet per minute. Variables of wind, speed fluctuations, or crew actions not considered.

- A - at 140 mph. ground speed
- B - at 135 mph. ground speed
- C - at 130 mph. ground speed
- D - at 125 mph. ground speed
- E - at 120 mph. ground speed

2. Towers and photographs not to scale.

3. Power lines struck by aircraft accentuated for clarity.







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# Resource Management on the Flight Deck

Proceedings of a NASA/Industry Workshop  
Held at  
San Francisco, California  
June 26-28, 1979

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**CASE FILE  
COPY**

March 1980

1. SOCIAL AND COMMUNICATIONS
2. LEADERSHIP AND MANAGEMENT
3. PLANNING
4. PROBLEM-SOLVING
5. DECISIONMAKING

Figure 1.- Skills required for resource management.

- INTERPERSONAL RELATIONSHIPS
  - MECHANICS OF COMMUNICATION

Figure 2.- Social and communications skills.

- DELEGATION OF AUTHORITY
  - ESTABLISHMENT OF PRIORITIES
  - ACHIEVING CREW COORDINATION AND CREW COOPERATION
    - ALLOCATION OF DUTIES
      - DISTRIBUTION OF WORKLOAD
        - RECOGNITION OF COMPETENCY AND STRESS
          - SUPERVISION OF ASSIGNED TASKS
            - MONITORING
              - ACCEPTANCE OF RESPONSIBILITY

Figure 3.- Management skills.







Doc 9432  
AN/925

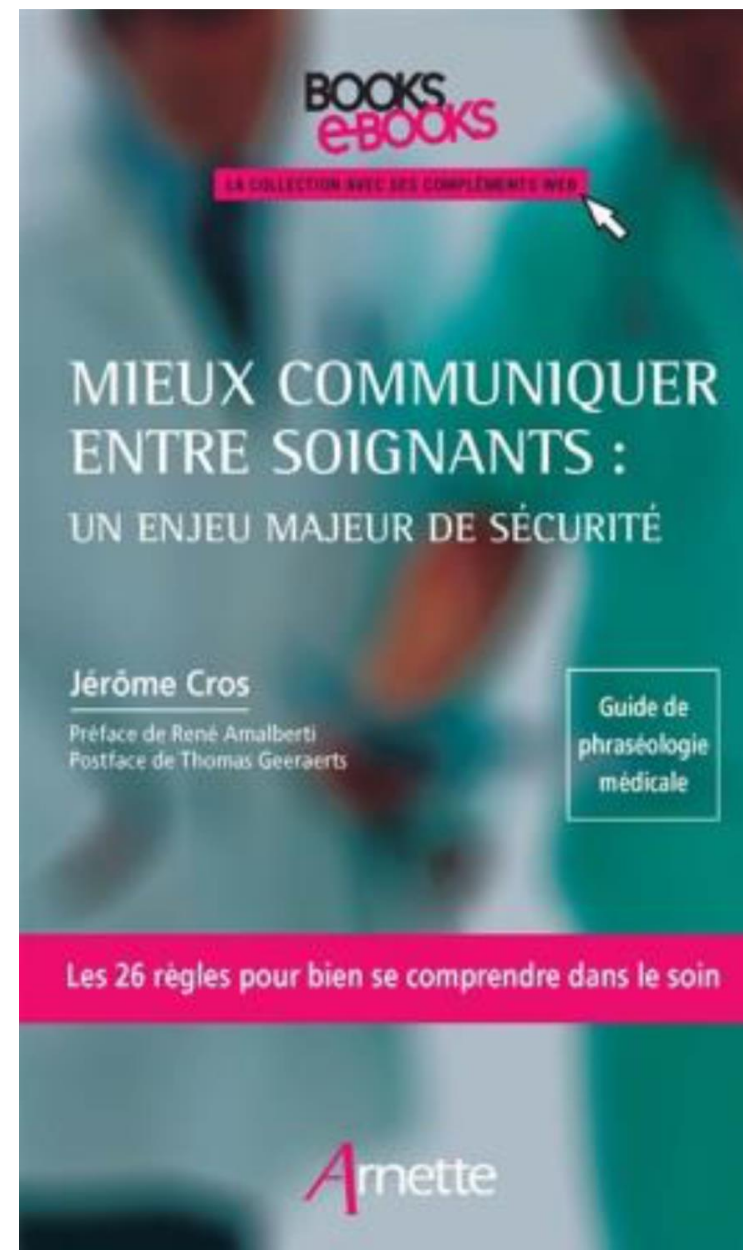


# Manual of Radiotelephony

Approved by the Secretary General  
and published under his authority

Fourth Edition — 2007

International Civil Aviation Organization



# C'est quoi la phraséologie?

« **Construction de phrases** ou procédé d'expression  
**propre à [...]** une **discipline**, à un **milieu** »

Source : Larousse

# Le message

- Quantifier
- Un verbe précis
- Pas de métonymie
- Personnaliser le contact
- Passer à l'écrit si nécessaire

*la précision*



# L'attitude

- Le bon ton
- Attirer l'attention
- Limiter le bruit de fond

*l'intention*

# L'échange

- Fermer la boucle
- Grimper l'échelle de la précision
- Utiliser des méthodes structurées

*l'esprit d'équipe*

# Pièges et situations difficiles

- Avouer ses ignorances
- Exprimer un désaccord
- Appliquer la communication non violente

*ni hérisson, ni paillason*



# L'implémentation

- Créer vos propres règles

*La responsabilisation*

précision  
ni hérisson  
ni paillasson

Rechercher



## Les enfants du facteur

336 abonnés

ABONNÉ



ACCUEIL

VIDÉOS

PLAYLISTS

CHAÎNES

DISCUSSION

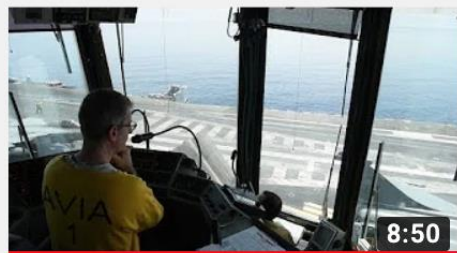
À PROPOS



Vidéos en ligne



TOUT REGARDER



8:50

La gestion du facteur humain sur un porte-avions, par le...

382 vues • il y a 1 semaine



5:20

FORDEC, par Philippe Agnès

175 vues • il y a 4 semaines



7:36

La simulation in situ, par Bruno Debien

197 vues • il y a 1 mois



1:21

Programme du colloque - 25 octobre 2019 - au siège de l...

249 vues • il y a 1 mois

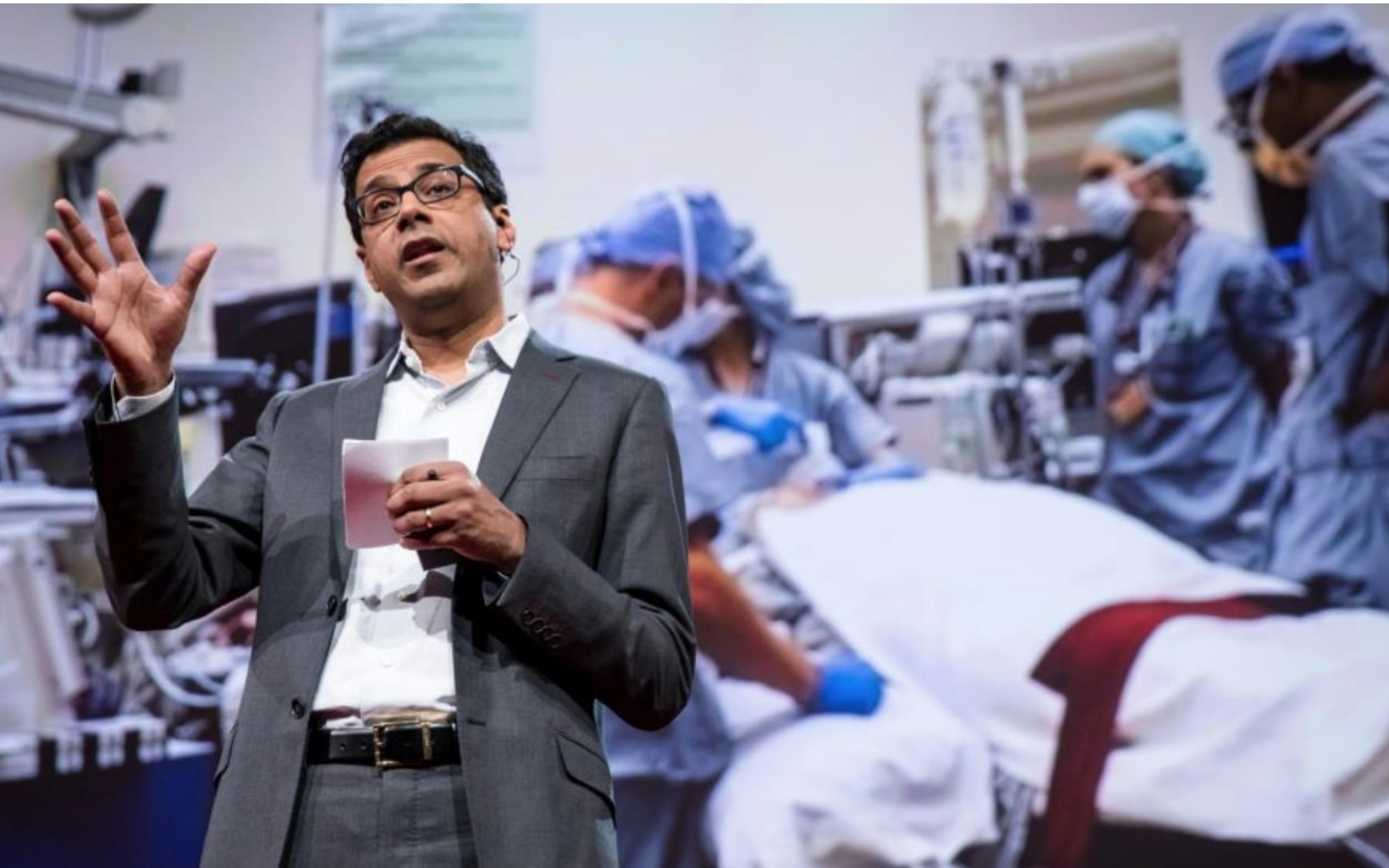


10:17

La minute du Docteur Captain, épisode 3 : la...

199 vues • il y a 1 mois

# Conclusion



Humilité

Discipline

Travail d'équipe