

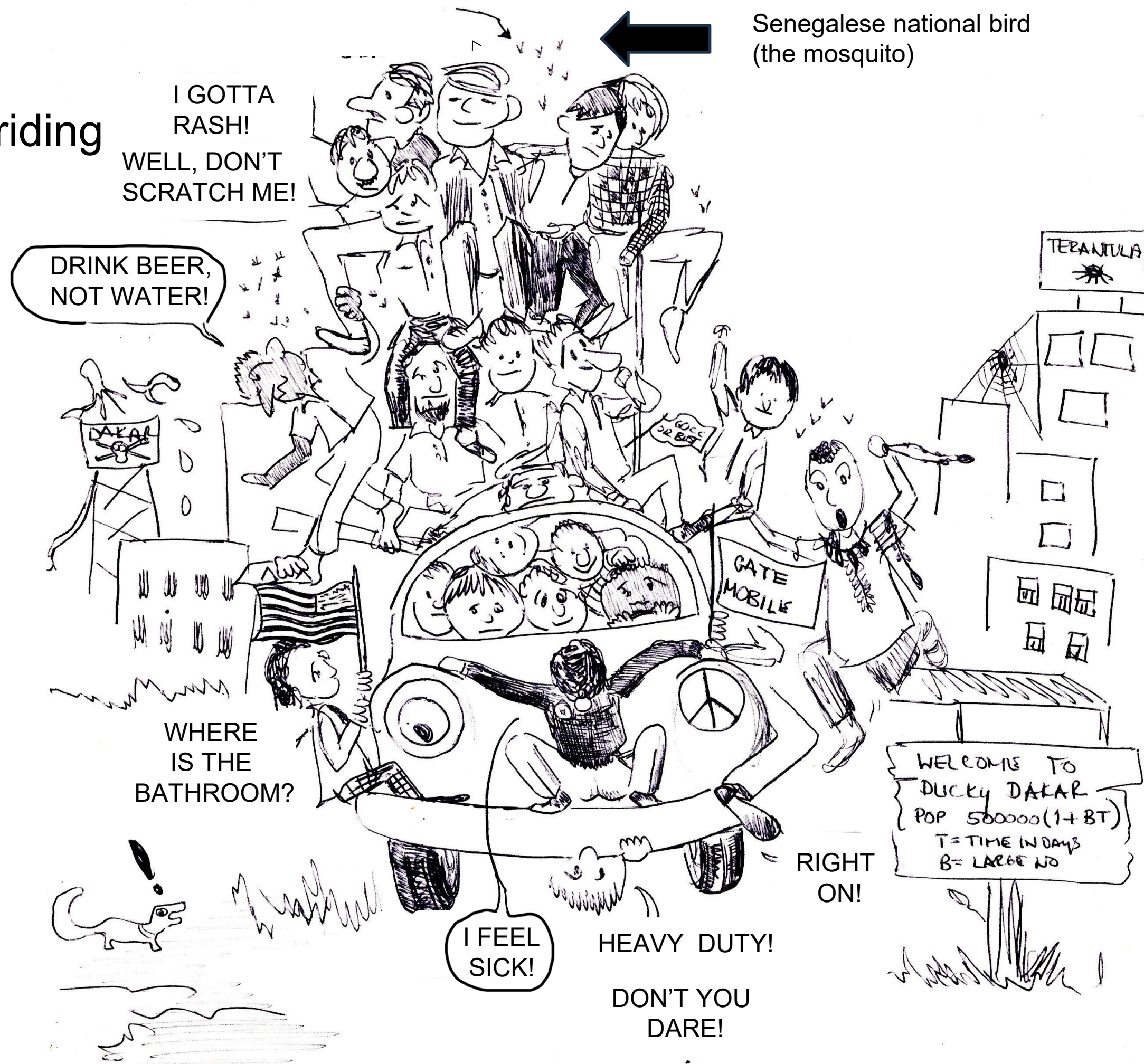
Based on cartoons drawn during GATE or shortly thereafter.

The opinions herein are based on those of the cartoonists during the time the book was made and resembles the opinions of our sponsors only by accident.

News filters in from various sundry sources, about something like a transportation problem, among other things, giving us all visions of what getting back and forth is going to be like....

GATE people riding to airport

Senegalese national bird
(the mosquito)



Sign: Welcome to Ducky Dakar
Population = $500000 \cdot (1 + BT)$

B = large number

T = time

(note: refugees coming from north due to long-term drought).

1 March 1974 (revised 1975)

300 people, 12 cars for US Participants

IMPACT OF “SECHERESSE”- (DROUGHT) INDUCED WATER SHORTAGE

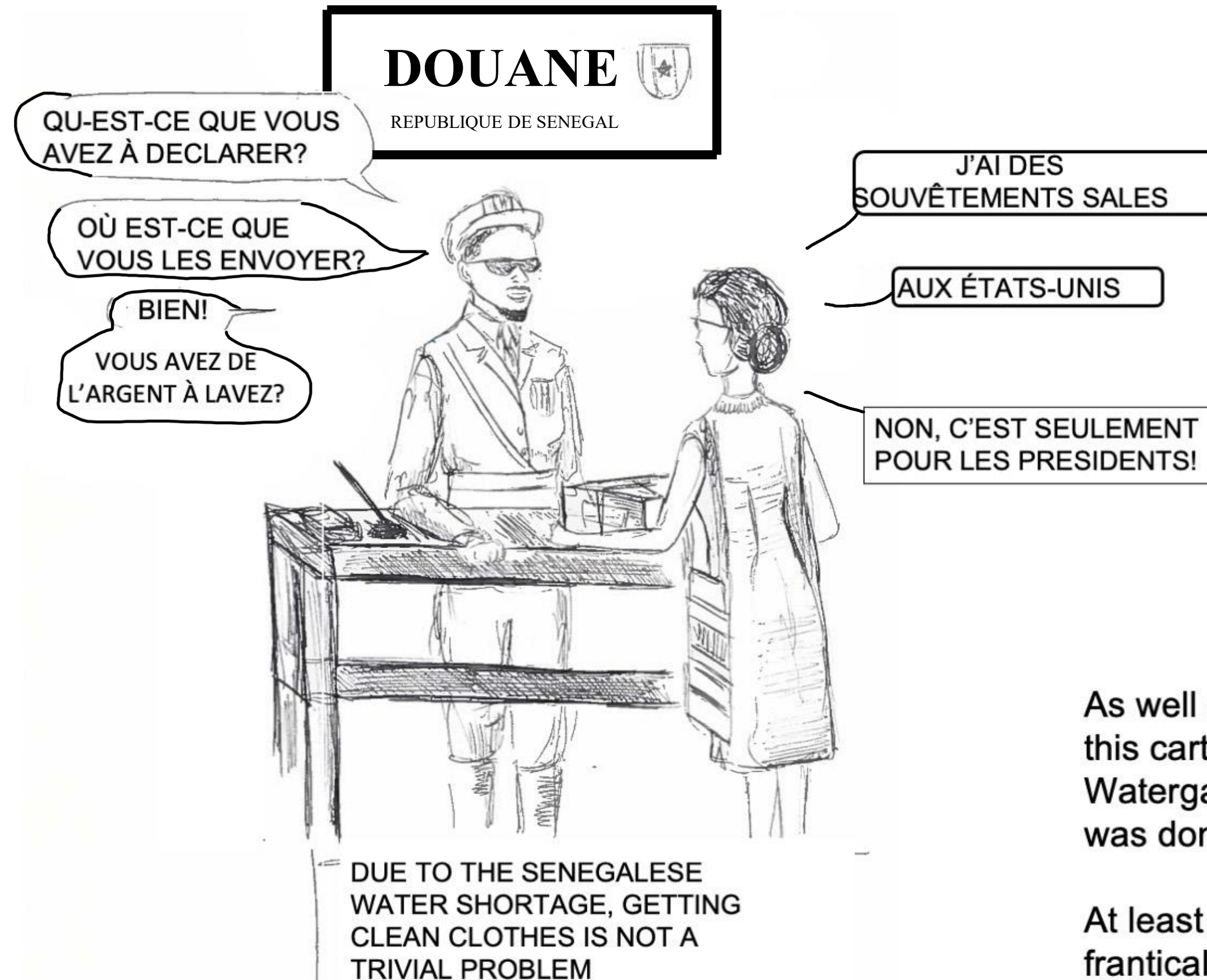
TRANSLATION:

Q: What do you
have to declare?

A: I have some
dirty underwear

Q: Very good!
Do you have
money to launder?

A: No, that it only for
Presidents!



As well as the drought,
this cartoon reflects the
Watergate scandal which
was dominating the news

At least for those of us not
frantically getting ready to
spend over 3 months away
from home!

Of course, modern medicine
has come a long way
...or HAS it?

GET HIT BY THE UGLY STICK.



- IN THE CARTOON, SHOTS ARE FOR:
- TYPHUS
 - TYPHOID
 - CHOLERA
 - DIPHTHERIA
 - POLIO
 - HEPATITIS
 - SMALL POX
 - LARGE POX

ANTI-DIARRHEAL MEDICINE →

PRIVILEGED NCAR SCIENTIST
(AKIN TO BEING A PRIVILEGED
VIRGIN ABOUT TO BE
SACRIFICED TO THE GODS)

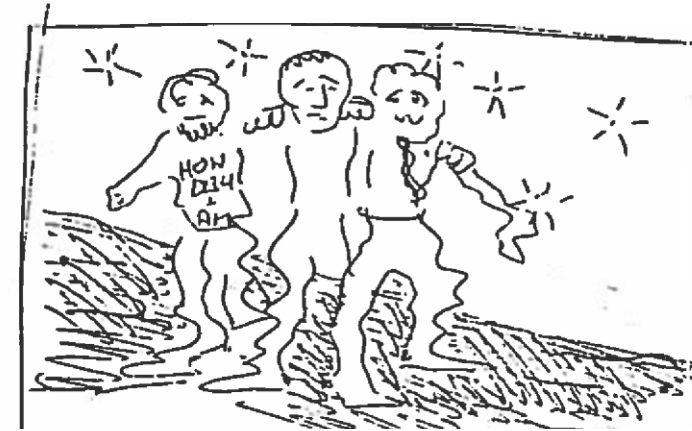
"IN ORDER TO PROTECT THE
GATE PARTICIPANTS IT WAS
NECESSARY TO DESTROY THEM..."
... OR ...

AAARGH~!

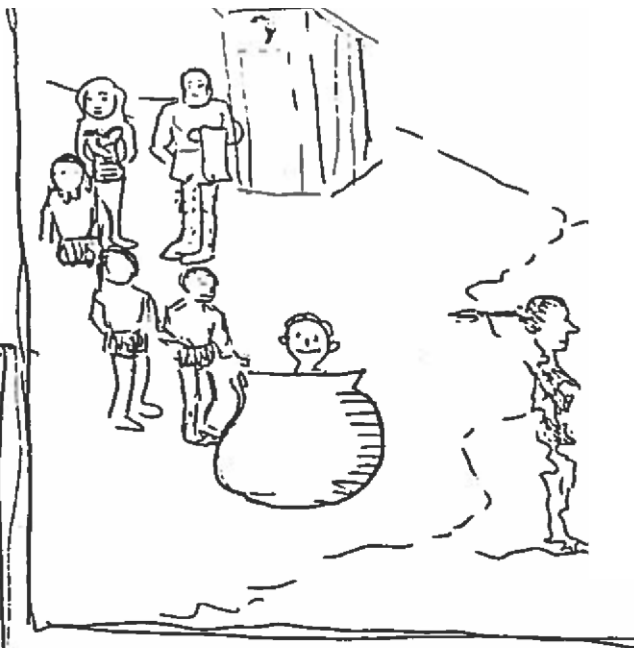
Shots, vaccinations, pills, and so on, could guard us against yellow fever, malaria, and such.

But the precautions against Bilharzia or Schistosomiasis, or Liver Flukes, were a bit more elaborate, and, to many of us, a bit disagreeable or even frightening....

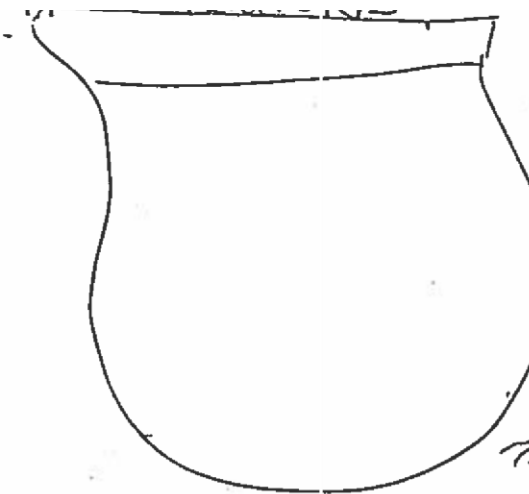
"SOAK IN PHISOHEX
AN HOUR BEFORE
SWIMMING"



WATER IS MORE EXPENSIVE
THAN BEER IN DAKAR



CAUTION: IT DISSOLVES
SWIMMING TRUNKS!



THAT AIN'T ALL!

For some, especially those at NCAR, and especially ¹⁴⁻ those who had tried to go to Okinawa for AMTEX,* there were moments of hesitation, wondering if our trusty airplane was ... trusty

*The Electra, which was later to go to GATE, lost cabin pressure enroute to Hawaii, the first leg of the trip to Okinawa, forcing us to oxygen masks until we could descend to 10,000 feet, and then return to Oakland. California.

NCAR TRAVEL POLICY (as defined by the NCAR at hoc last ditch travel policy committee)

Additional travel pay of \$5.00 will be made to anyone in an aircraft over the ocean, in which such aircraft becomes unpressurized for 8 hours or more, and such persons shall also be paid \$5.00 per day for each propeller not operating on that aircraft, up to \$20.00 per day.

The survival movies we saw before debarking for GATE mentioned something about being thoroughly acquainted with any and all aircraft in which we were to fly.

But what about when we would be flying on aircraft of other nations with other languages?

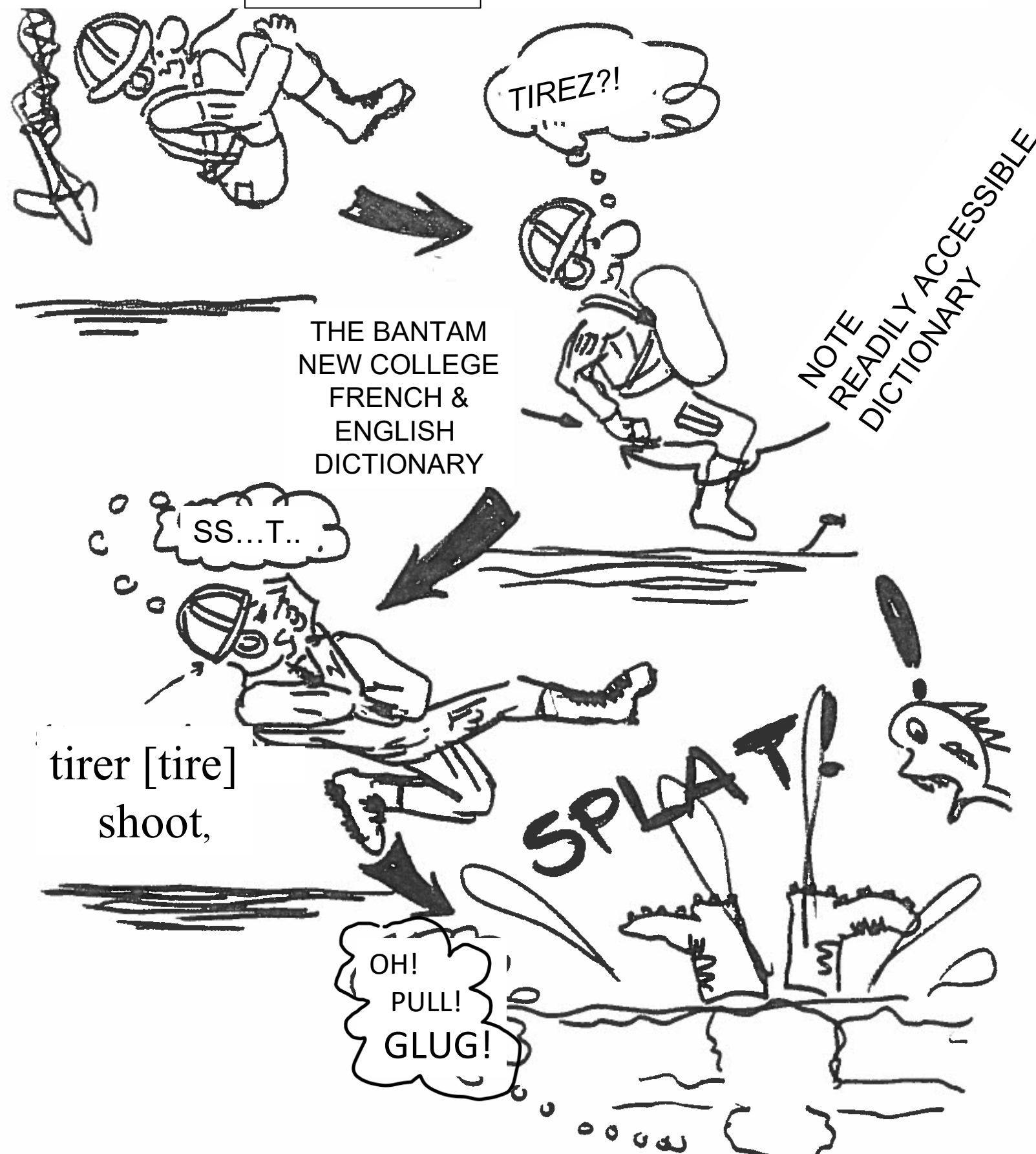
SURVIVAL AT SEA

RULE #1

BE THOROUGHLY ACQUAINTED WITH AIRCRAFT YOU FLY IN

BAILING OUT

TIRER APRÈS
5 SECONDES



Getting there!



Captions to right

CAPTIONS BY NCAR/GATE PASSENGERS
ON PAN AMERICAN FLIGHT, JUNE 18, 1974,
WHILE AIRCRAFT AT KENNEDY WAITING TO
GO TO DAKAR

① How many six pack delay
is this?

② WHEN DO WE GET THERE?

③ DAKAR? I THOUGHT WE WERE
GOING TO PADUCHAH!

④ IS THIS THE JFK HOME
OF THE PAN AM
BAR & GRILL?

⑤ WHAT THE (EXPLETIVE DELETED)
IS A HORIZONTAL
STABILIZER, ANYWAY?

⑥ College is hell!

⑦ WHAT THEY OUGHTTA DO IS JACK UP
THE STABILIZER MOTOR, & PUT A NEW
AIRPLANE UNDER IT.

⑧ "Rolling Delay"? Now they're planning on
DRIVING US TO AFRICA...

⑨ TECHNOLOGY REALLY SHRINKS THE WORLD, DOESN'T IT?

→ ADD YOUR OWN ON THE NEXT PAGE, RETURN TO 21A. TNX!

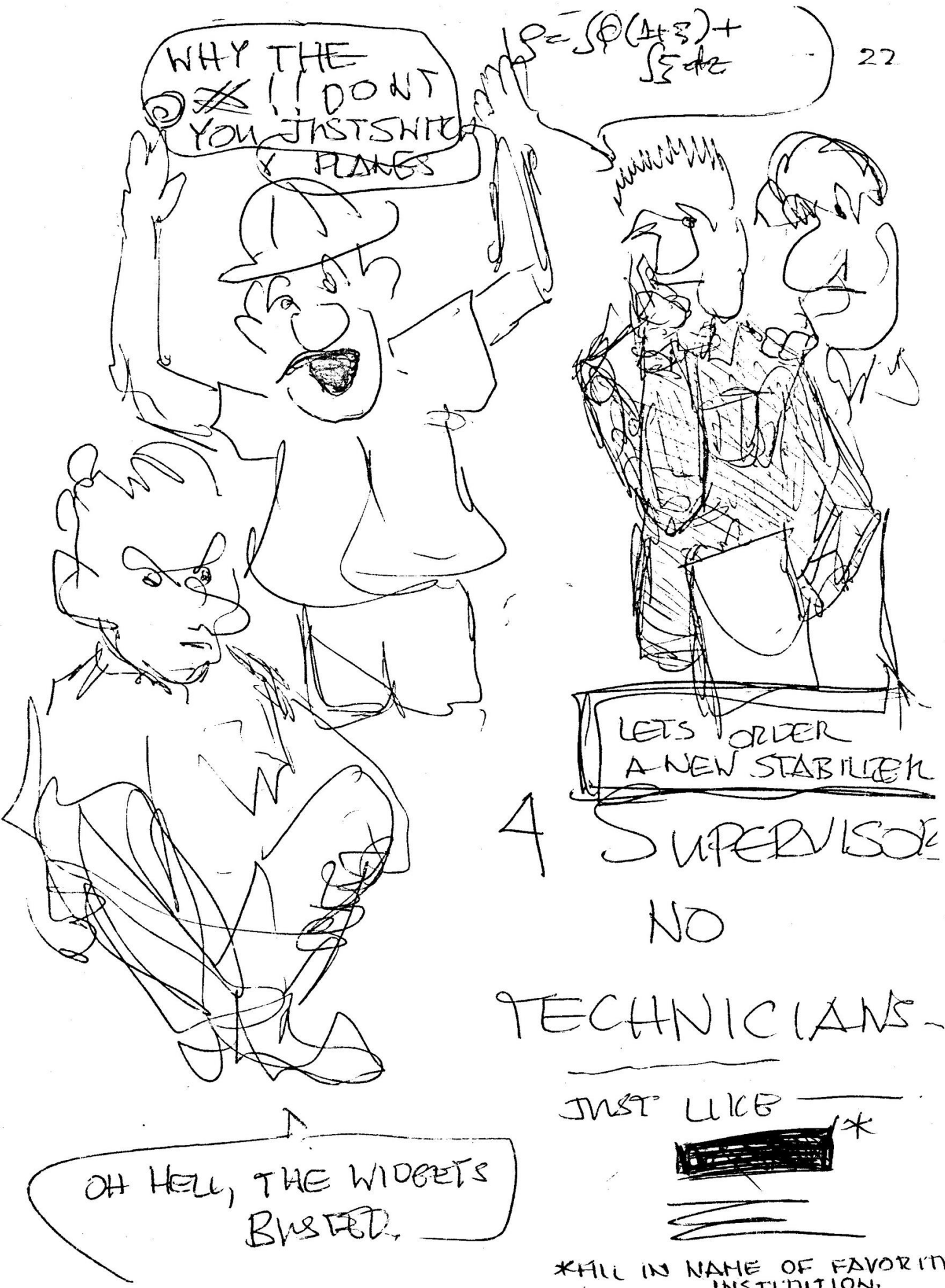
(BOTTOM: ADD YOUR OWN, RETURN TO 21A. TNX!)

REST OF CAPTIONS

10 Is This Braniiff?

11 But With four supervisors working on it, how long will it work

12





CAPTIONS BY NCAR/GATE PASSENGERS
ON PAN AM FLIGHT, 18 JUNE 1974, WAITING
UNTIL AIRCRAFT DEPARTS JFK FOR DAKAR

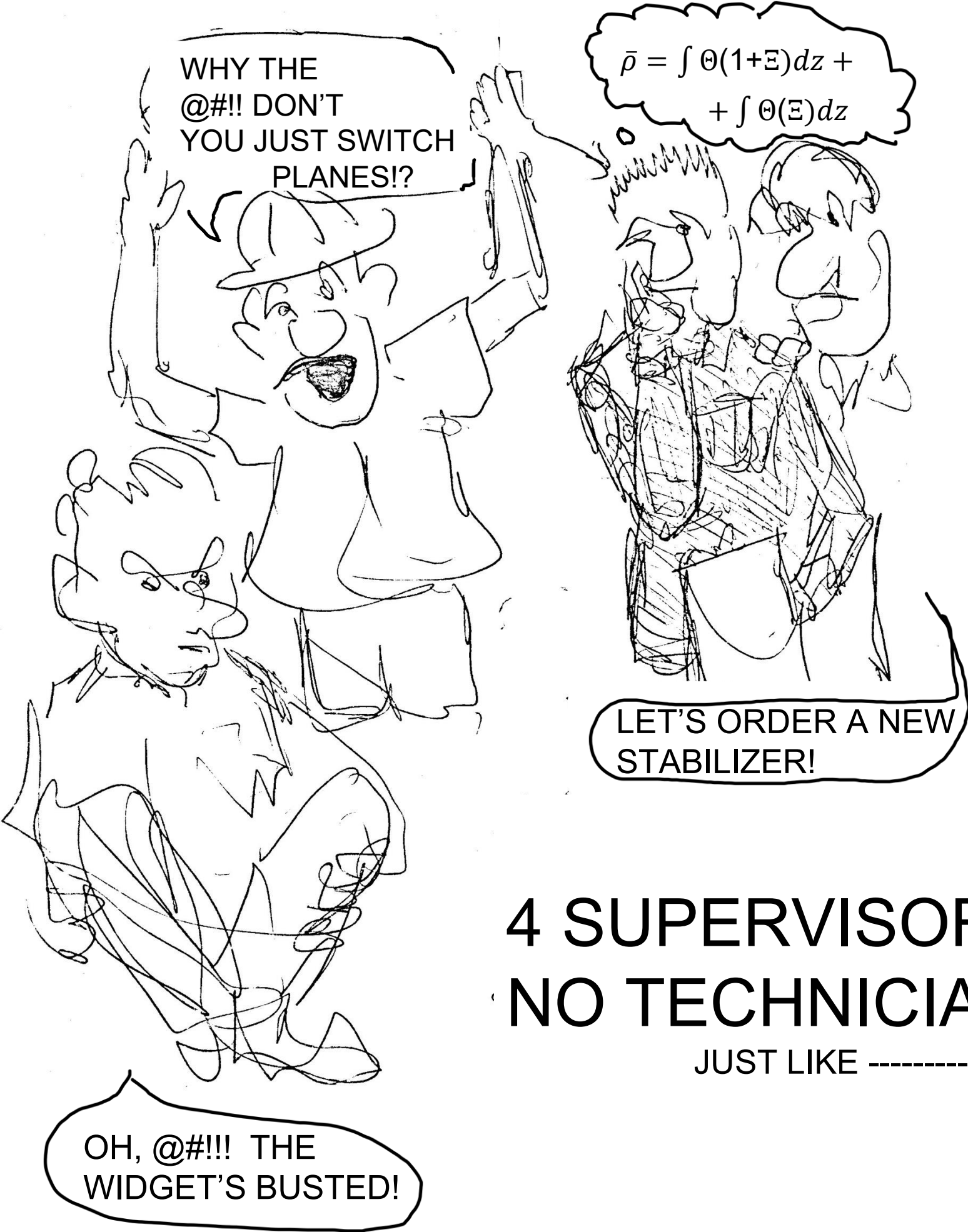
1. How many six-pack's delay is this?
2. When do we get there?
3. Dakar? I thought we were going to Paducah?
4. Is the the JFK home of the Pan Am Bar and Grill?
5. What the (Expletive Deleted) is a horizontal stabilizer anyway
6. College is Hell!
7. What they oughtta do is jack the stabilizer motor and put a new airplane under it.
8. Rolling delay? Now they are planning on DRIVING us to Africa?
9. Technology really shrinks the world, doesn't it?

(BOTTOM: ADD YOUR OWN, RETURN TO 21A. TNX!)

Captions to right

CAPTIONS BY NCAR/GATE PASSENGERS
ON PAN AM FLIGHT, 18 JUNE 1974, WAITING
UNTIL AIRCRAFT DEPARTS JFK FOR DAKAR
(P. 2)

- 10. Is this Braniff?
- 11. But with 4 supervisors on it, how long WILL it take?

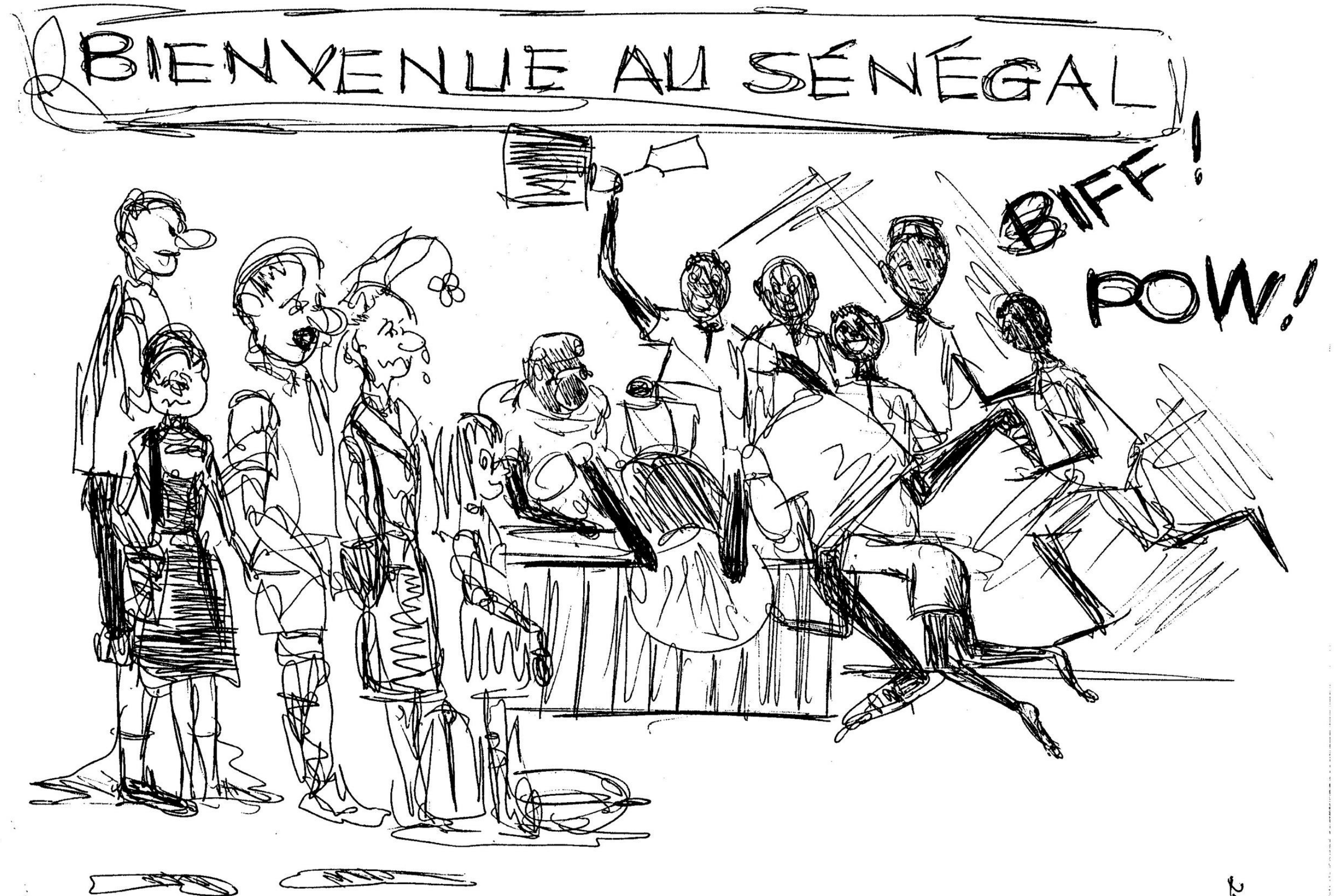


4 SUPERVISORS
NO TECHNICIANS
JUST LIKE -----*

*FILL IN NAME OF FAVORITE INSTITUTION

Arrival at Dakar-Yoff Airport

Exhausted
bunch of GATERs
encountering a
phalanx of dueling
Senegalese
wanting to carry out all
of our luggage in
every language except
for English.



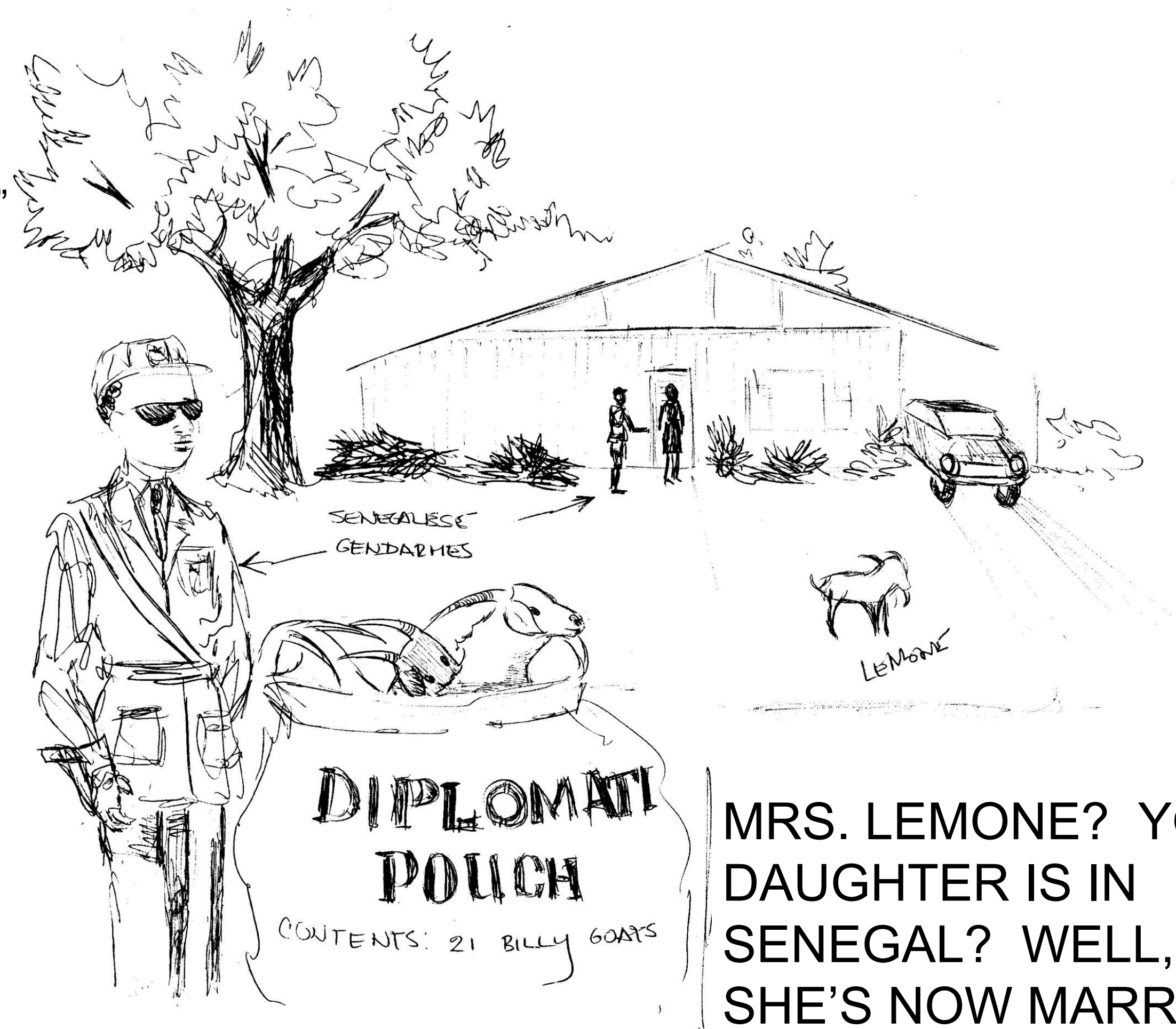
Dakar, Africa, and GATE

And then we were there: thrown simultaneously into two foreign cultures: That of Dakar and that of GATE.

Dakar gave us some surprises:
bargaining,
goats everywhere,*
the local Marabout, “Wailing Wally,”
and
The local language, Wolof.

In Wolof, “Wow”
meant “Yes” rather than
“Oh, boy!” ...
and this led us to
(or nearly led us)
into some rather
Interesting situations!

*Going bride price = 21
billy goats.



MRS. LEMONE? YOUR
DAUGHTER IS IN
SENEGAL? WELL,
SHE'S NOW MARRIED!

At first, GATE meeting lengths were quadrupled by translations into Russian, French, and German, not to mention power failures.*

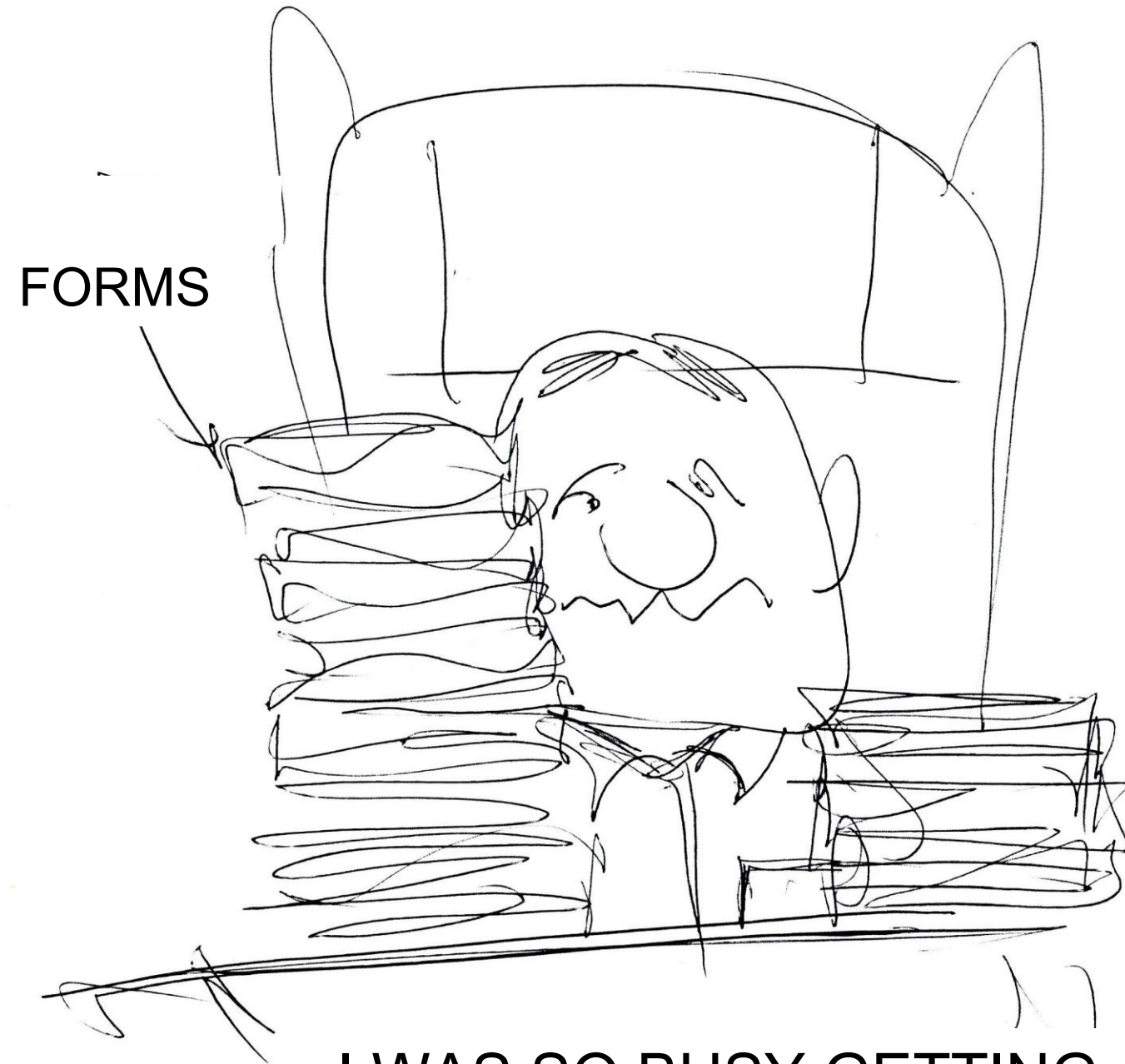
The next cartoon was not only inspired by one such briefing, on filling out flight forms, it was drawn DURING that briefing!



*Summarized so well by the French in their classic phrase, "C'est l'Afrique, Patron."

And the response
to this
briefing on
recording
data, etc. on
aircraft
missions was ...

N.B., E. ZIPSER!



**I WAS SO BUSY GETTING
THE FORMS FILLED IN,
I COULD TAKE ONLY ONE
OBSERVATION!**

Once the briefings were over, we would have liked to go anywhere else, only this was a nontrivial problem. The departure of a given vehicle from the GOCC was given by the following formula:

$$T_{\text{DEPARTURE}} = T_0 + T_P + 15 + U$$

Where

T_0 is the time at which the car was filled to twice capacity (independent of scheduled departure, which doesn't enter the formula).

T_P is the time required for a prayer, which regularly occurred at time T_0 , and which increased with our hunger.

15 is the time in arbitrary units which varies from two minutes per unit to one hour er unit (Given in French as "quinze minutes.")

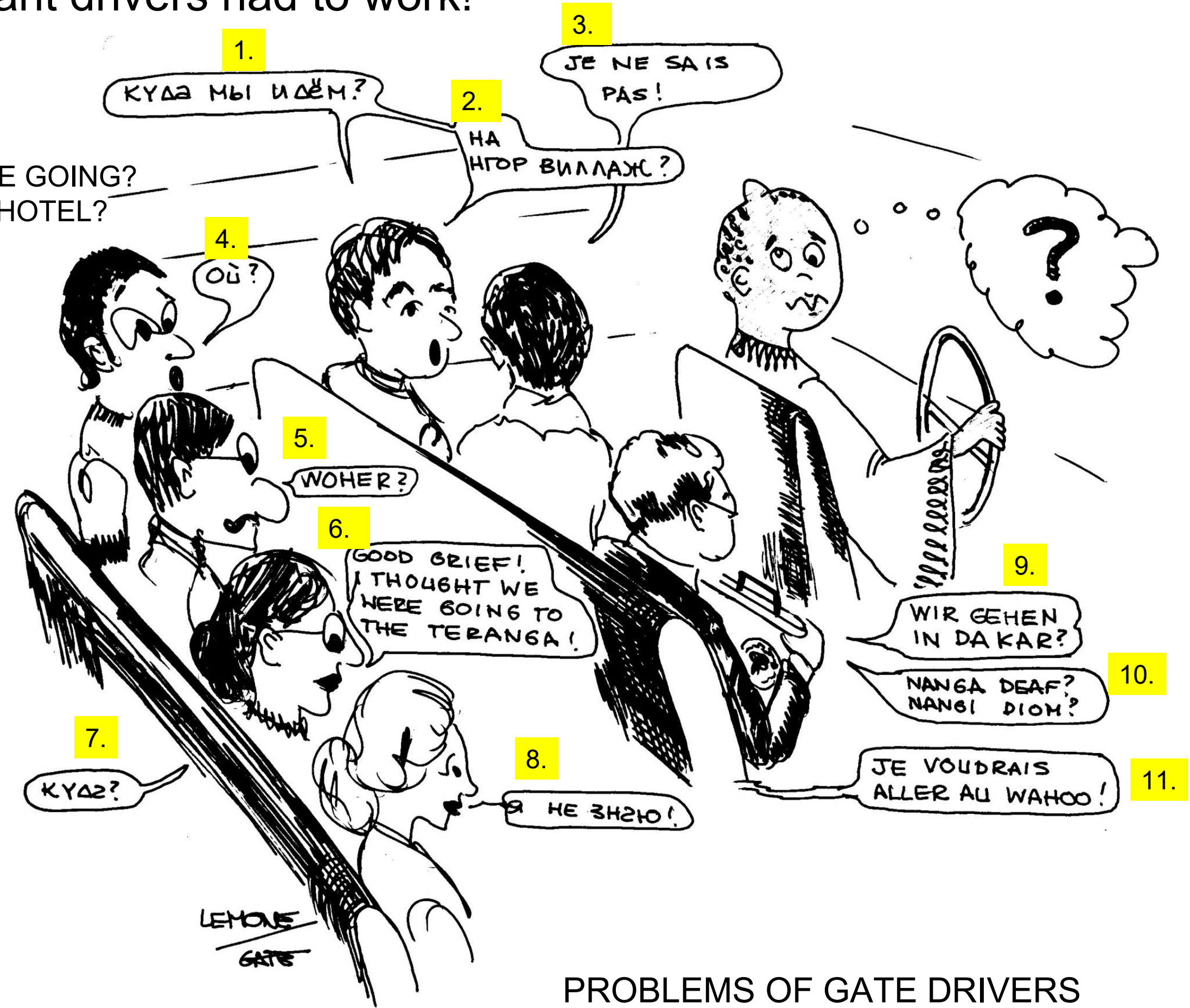
U is the urgency, varying linearly to exponentially with urgency.

After departure, the changes were one in three that you would arrive within ten minutes of your destination, which wasn't Really too bad. Really.

Especially considering the conditions under which our valiant drivers had to work!

TRANSLATIONS

- 1. (RUSSIAN) WHERE ARE WE GOING?
- 2. (RUSSIAN) TO THE NGOR HOTEL?
- 3. (FRENCH) I DON'T KNOW
- 4. (FRENCH) WHERE?
- 5. (GERMAN) WHERE?
- 6. (ENGLISH) GOOD BRIEF, I THOUGHT WE WERE GOING TO THE TERANGA!
- 7. (RUSSIAN) WHERE?
- 8. (RUSSIAN) DON'T KNOW
- 9. (GERMAN)WE ARE GOING TO DAKAR?
- 10. (WOLOF) HOW ARE YOU
- 11. (FRENCH) I WOULD LIKE TO GO TO THE WAHOO



PROBLEMS OF GATE DRIVERS

FLIGHTS PAST THE THIÈS TOWER FOR INSTRUMENT CALIBRATION

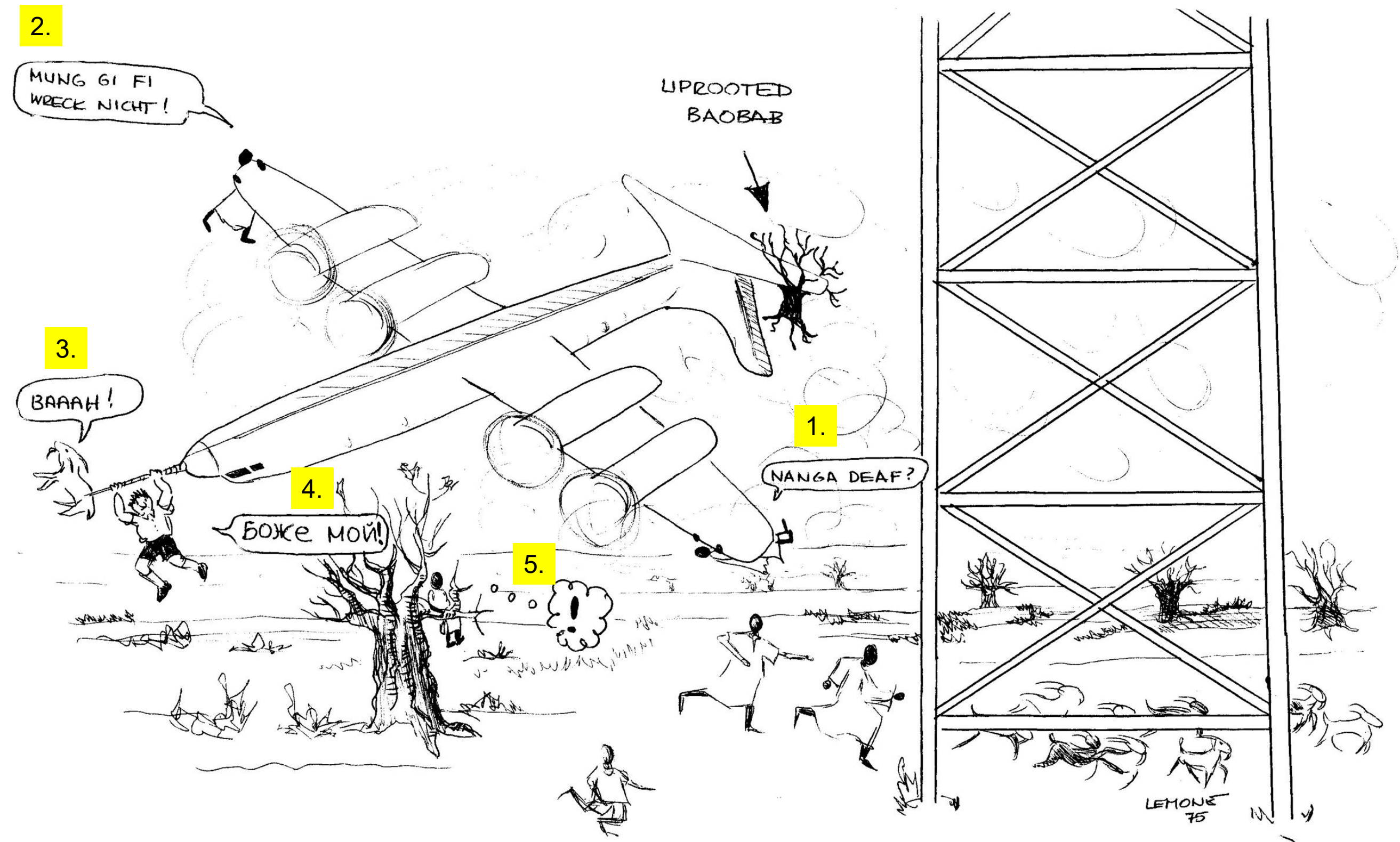
The operational phase of GATE had begun, beginning with fabulous feats like tower fly-bys, required for penetrating aircraft. The Soviets, who turned out to be some of the best turbulence fliers in the bunch (especially the Cloud Physics people) were at first hesitant to “fly the tower.”

“This is nothing,” said “Sky King” Zinser to the Russians, and proved it by letting them ride along as he did some fancy flying (*slightly* exaggerated here). Which the Russians duplicated beautifully on their first day by the tower.

No one was quite sure of what the Senegalese thought of all of this, but the children obviously enjoyed it, and the African goats reacted like American cows.

TRANSLATIONS

1. (Wolof) How are you
2. (Wolof/German) Not so good!
3. (Goat) Baaaaa!
4. (Russian) My God!
5. (universal) !



ELECTRA PILOT BILL ZINSER ("SKY KING") DOES AN 8-POINT ROLL AT THIÈS TOWER FOR THE RUSSKIES WITH HIS "SONGBIRD" AT 50 FEET

At the Thiès Tower
the famous Incident of the
Porto-Potty, depicted here,
spurs a (fictitious) letter to
NCAR's safety officer,
Blair Smallwood, and
provides amusement
for colleagues and
Senegalese children.



DEAR BLAIR,*

OUR FIRST ACCIDENT OCCURRED AT THIÈS
TODAY. REQUEST SOME MORE SAFETY ROPE,
A LIFE PRESERVER, AND EITHER A NEW
PORTO-JOHN OR 25 BOTTLES OF LOMOTIL.

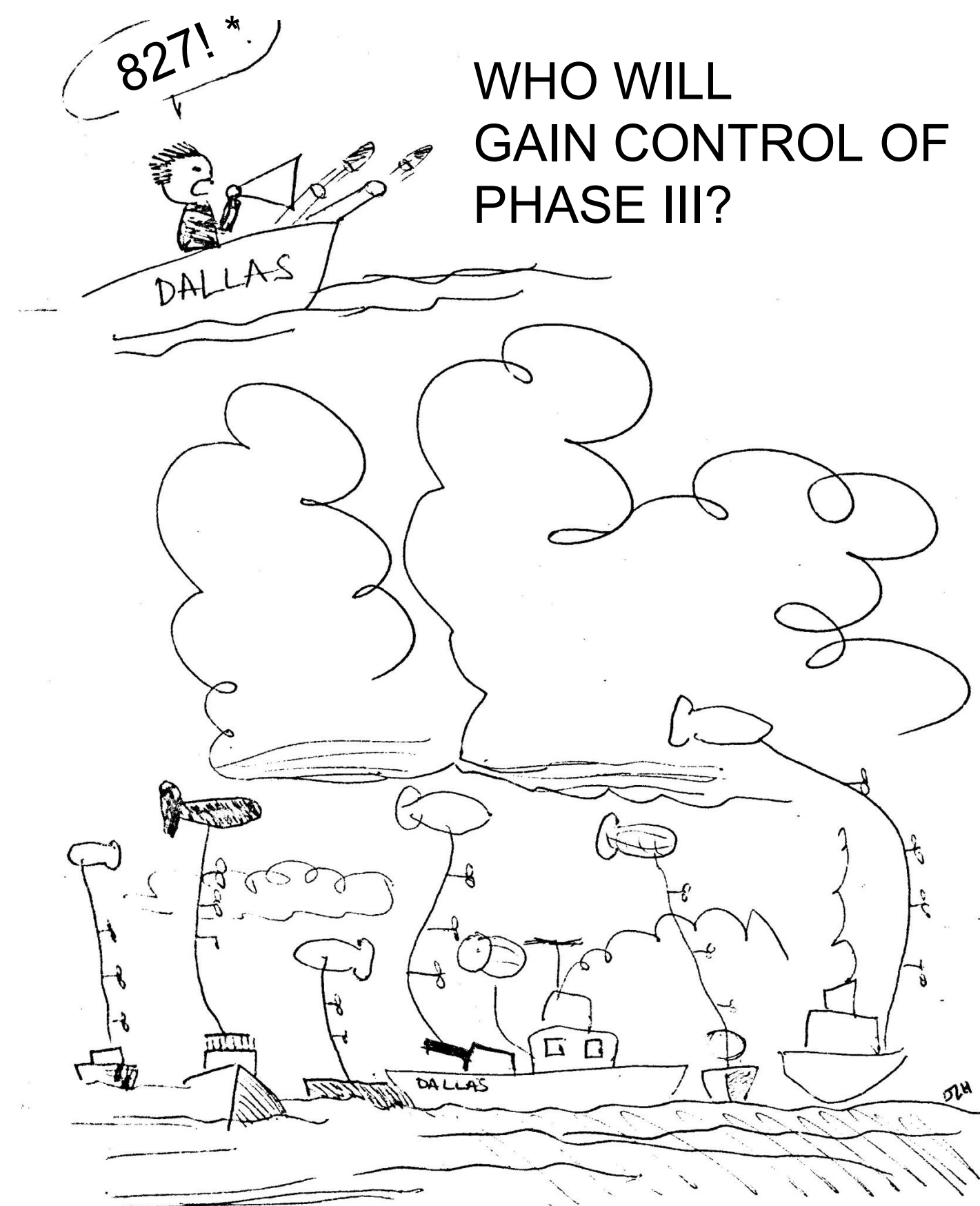
Moral of this story: When in the bush, use one!

Participants have exalted
the cooperation between
nations during GATE...

But does anyone
remember the War
Between the Aircraft and
the Ships?

Fortunately, a peace
settlement was negotiated
between the First and
Second Phase, which
was, of course,
revised between the
Second and Third Phase

(*CASUS BELLI*:
INABILITY TO FLY
LOW-LEVEL LEGS
WITHIN 60 KM OF
TETHERED BALLOONS)



WHO WILL
GAIN CONTROL OF
PHASE III?

TRANSLATION
(Russian-American contingency
Version of the GATE radio code)
“Pardon me, sir, you
obviously mistook me
for someone who gives
a”

GUST PROBE AIRCRAFTS’
VIEW OF THE C-ARRAY

IT IS IS FAR, FAR SIMPLER THING
THAT I WILL DO THAN WHAT
I THOUGHT I WOULD DO!

Ticklish problems of
maneuvering aircraft
near balloons, trying to find the
weather in the first place, etc.,
were discussed in the
“between phase” periods,
which were known
as the “Interphase” periods
(not to be mistaken for
Telophase, prophase, and
menophase)

END
PHASE I



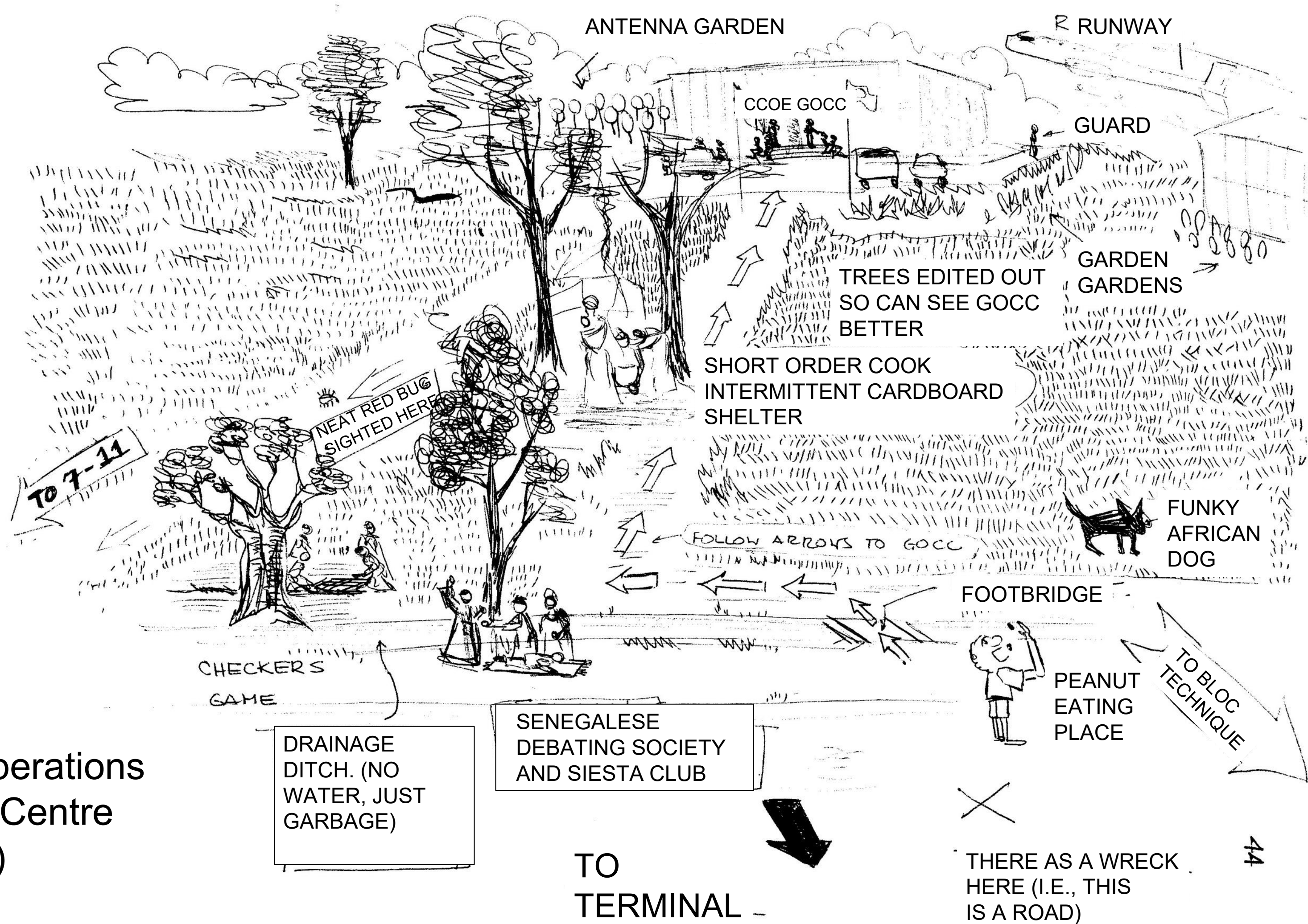
GATE was masterfully run under the leadership of the international Mission Selection Team (MST), under the steady leadership of Joach Kuettnner.

They kept careful track of progress on achieving the carefully thought out GATE scientific objectives ...

Nevertheless, Josh Holland thought of one way that things could go wrong ...



The GATE Operations Control Centre (GOCC)



GOING HOME ..

NO MORE DREAD
DISEASES TO
CONTEND WITH...

AHH..NO MALARIA, PILLS,
NO YELLOW FEVER, NO...

OH, BUD I
GOD A
TERRIBLE
CODE!



GATE PHASE IV: AFTER THE FIELD PHASE

Despite all protests to the contrary, and some contrary protests, there was and is a Phase IV to GATE. It is that continuing phase, right now, a year later, in which we are perusing and ~~validating~~ editing annotating the data, as well as flagging the bad parts. (really a part of annotating).

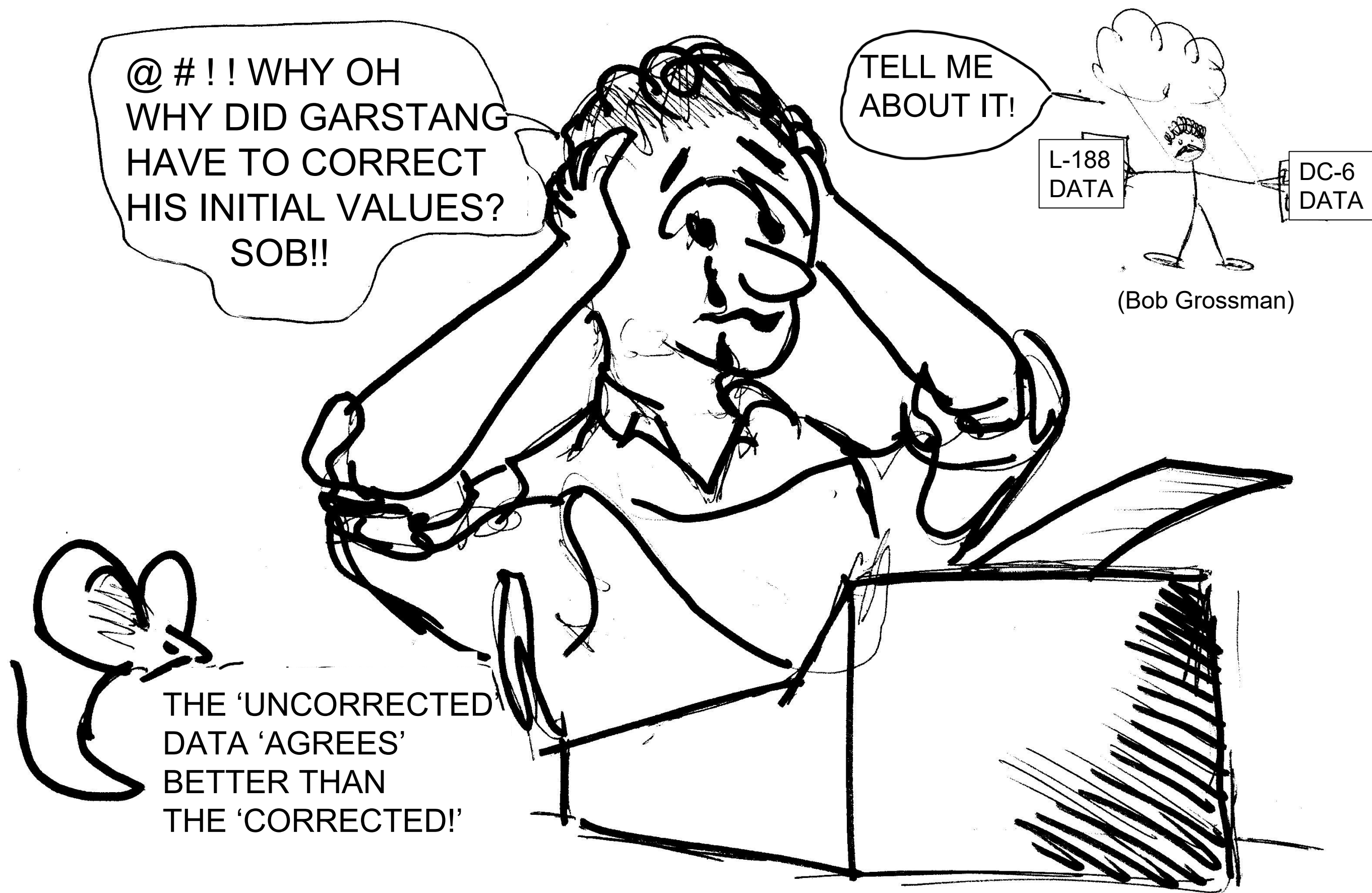
This is an exercise undertaken by people scattered all over the world (not to mention all over the office). The process is so frustrating that we actually could use a few GATE lawyers, to tell us whether this or that flag is “operative.” Personally, there are times I would just like to use a white one.

Everyone and his cat is into ...

DATA

VALIDATION





Slide shown during GATE workshop
in 1977.

In spite of this announcement,
GATE data are still available at:

https://www.eol.ucar.edu/field_projects/gate

Or ...



APPENDIX I: PHRASES WE WILL REMEMBER

- | | | |
|---|--|---|
| 1. Pas de problem! | 11. “Je parle un peu de français et un peu d’anglais.
Je suis Américain.’ | |
| 2. Je te donne un bon prix | | |
| 3. Veux-tu me marier? | 12. Bone-joo-er! | |
| 4. Skin-colored bathing suits | 13. We went one day,
‘Bout a month ago,
To hae a little fun,
In Gambio | So here we are
In the Banjul jail
And Jean and Jane
Won’t go our bail! |
| 5. Monokinis | | |
| 6. Quinze minutes | We ended up
In a gambling spot
Where the liquor flowed
And the dice were hot! | |
| 7. The girl with the streamlined eyes | | |
| 8. “Don’t Bogart that joint, my friend! | | |
| 9. Grossman’s leap | 14. Dallas, Dallas, this is GATE radio. 827! | |
| 10. Have you had your pill today? | 15. Any suggestions for Mission Scientist or
Airborne Mission Scientist? | |

APPENDIX I: PHRASES WE WILL REMEMBER

16. I pledge allegiance
to the meal
from the United States of America

And to the economy
for which it stands

One meal
In-Flight.
Individual

With an Interdental Stimulator for all

(Ode to a C-Ration)

17. There is rain falling on the south
side of the shower

18. Streaker sighted

19. Speak into the mike!