

put to sleep before they were even taken aboard.

BOWMAN
Well, what is it?

POOLE
I don't know. All I heard is that there's something about the mission we weren't told.

BOWMAN
That seems very unlikely.

POOLE
Yes, I thought so.

BOWMAN
Of course, it would be very easy for us to find out now.

POOLE
How?

BOWMAN
Just ask Hal. It's conceivable they might keep something from us, but they'd never keep anything from Hal.

POOLE
That's true.

BOWMAN
(sighs)
Well... it's silly, but... if you want to, why don't you?

Poole walks to the HAL 9000 computer.

POOLE
Hal... Dave and I believe that there's something about the mission that we weren't told. Something that the rest of the crew know and that you know. We'd like to know whether this is true.

HAL
I'm sorry, Frank, but I don't think I can answer that question without knowing everything that all of you know.

BOWMAN

He's got a point..

POOLE

Okay, then how do we re-phrase the question?

BOWMAN

Still, you really don't believe it, do you?

POOLE

Not really. Though, it is strange when you think about it. It didn't really make any sense to keep us apart during training.

BOWMAN

Yes, but it's too fantastic to think that they'd keep something from us.

POOLE

I know. It would be almost inconceivable.

BOWMAN

But not completely inconceivable?

POOLE

I suppose it isn't logically impossible.

BOWMAN

I guess it isn't.

POOLE

Still, all we have to do is ask Hal.

BOWMAN

Well, the only important aspect of the mission are: where are we going, what will we do when we get there, when are we coming back, and... why are we going?

POOLE

Right. Hal, tell me whether the following statements are true or false.

HAL

I will if I can, Frank.

POOLE

Our Mission Profile calls for
Discovery going to Saturn. True or
false?

HAL

True.

POOLE

Our transit time is 257 days. Is
that true?

HAL

That's true.

POOLE

At the end of a hundred days of
exploration, we will all go into
hibernation. Is this true?

HAL

That's true.

POOLE

Approximately five years after we go
into hibernation, the recovery
vehicle will make rendezvous with us
and bring us back. Is this true?

HAL

That's true

POOLE

There is no other purpose for this
mission than to carry out a
continuation of the space program,
and to further our general knowledge
of the planets. Is that true?

HAL

That's true.

POOLE

Thank you very much, Hal.

HAL

I hope I've been able to be of some
help.

Both men look at each other rather sheepishly.

DISCOVERY IN SPACE

Pulsing along. Earth and Moon.

EXPERIMENTS - 0300 - SLEEP

RECREATION - 0400 - SLEEP

HOUSEHOLD DUTIES 0500 - SLEEP

GYMNASIUM - 0600 - SLEEP

DINNER - 0700 - SLEEP CENTRIFUGE

Bowman sitting at personal communication panel. Poole standing nearby.

Bowman's parents are seen on the Vision Screen. Mother, father and younger sister.

They are all singing "Happy Birthday". The parents, Poole and HAL.

The song ends.

FATHER

Well, David there is a man telling us that we've used up our time.

MOTHER

David... again we want to wish you a happy Birthday and God speed. We'll talk to you again tomorrow. Bye-bye now.

Chorus of "Good-byes".

Vision Screen goes blank.

HAL

Sorry to interrupt the festivities, Dave, but I think we've got a problem.

BOWMAN

What is it, Hal?

HAL

MY F.P.C. shows an impending failure of the antenna orientation unit.

TV display diagram of skeletonized picture of the ship.

Picture changes to closer sectionalized view of the ship.

Picture changes to actual component in color relief and its warehouse number.

HAL

The AO-unit should be replaced
within the next. Seventy-two hours.

BOWMAN

Right. Let me see the antenna
alignment display, please.

TV-display of Earth very small in cross-hairs of grid
picture.

Exterior view of the big dish antenna and Earth alignment
telescope.

50 INT. CENTRIFUGE

50

HAL

The unit is still operational, Dave.
but it will fail within seventy-two
hours.

BOWMAN

I understand Hal. We'll take care of
it. Please, let me have the hard
copy.

Xeroxed diagrams come out of a slot.

POOLE

Strange that the A.O. unit should go
so quickly.

BOWMAN

Well, I suppose it's lucky that
that's the only trouble we've had so
far.

DISCOVERY IN SPACE

No planets visible.

Shots of antenna.

51 INT. CENTRIFUGE

51

We see Bowman and Poole go to a cupboard labelled in paper
tape, "RANDOM DECISION MAKER".

They removed a silver dollar in a protective case.

Poole flips the coin. Bowman call "Head",

It is tails. Poole wins.

Poole looks pleased.

DISCOVERY IN SPACE

52 INT. POD BAY

52

Poole in space suit doing preliminary check out.

COMMAND MODULE

Bowman at flight control. See TV-picture of Poole in Pod Bay.

HAL's Pod Bay console with eye.

Poole goes to Pod Bay warehouse section and obtains component. He carries it back to the pod and places it in front of the floor.

POOLE

Hal, have pod arms secure the component.

HAL

Roger.

See pod arms secure component.

POOLE

Hal, please rotate Pod Number Two.

See the center pod rotate to face the Pod Bay doors.

Poole enters pod.

Inside pod, he does initial pre-flight check, tries buttons and controls.

POOLE

How do you read me, Dave?

BOWMAN IN COMMAND MODULE

BOWMAN

Five by five, Frank.

INSIDE POD

POOLE

How do you read me, Hal?

HAL

Five by five, Frank.

POOLE

Hal, I'm going out now to replace the AO-unit.

HAL

I understand.

POOLE

Hal, maintain normal E.V.A. condition.

HAL

Roger.

POOLE

Hal, check all airlock doors secure.

HAL

All airlock doors are secure.

POOLE

Decompress Pod Bay.

See big Pod Bay air pumps at work.

HAL

Pod Bay is decompressed. All doors are secure. You are free to open pod bay doors.

POOLE

Opening pod bay doors.

Inside pod, Poole keys open Pod Bay doors.

Pod slowly edges out of Pod Bay.

Poole maneuvers the pod carefully away from Discovery.

53 INT. INSIDE COMMAND MODULE

53

Bowman can see tiny pod maneuvering directly in front.

POOLE SEE BOWMAN IN COMMAND MODULE WINDOW

Pod slowly manoeuvres to antenna.

Pod fastens itself magnetically to sides of discovery at base of antenna.

Special magnetic plates grip discovery sides.

The pod arms work to remove the faulty component.
 Easy flip-bolts of a special design facilitate job.
 Inside the pod, Poole works the arms by special control.

54 INT. IN COMMAND MODULE

54

Bowman sees insert of work taken from TV camera POV in pod hand.

HAL stands by.

Poole secures the faulty part in one hand.

The new component is fitted into place by the other three hands are snapped closed with the specially designed flip-bolts.

POOLE

Hal, please acknowledge component correctly installed and fully operational.

HAL

The component is correctly installed and fully operational.

The pod floats away from the discovery by shutting off the electro-magnetic plates.

The pod maneuvers away from the antenna and out in front of discovery.

Bowman sees the pod through the command module window.

Poole sees Bowman in command module window.

Poole carefully maneuvers toward the pod doors.

Pod stops a hundred feet away.

Poole keys automatic docking alignment mode.

Poole checks airlock safety procedure with HAL.

HAL approves entry.

Poole actuates pod bay doors open.

See pod bay doors open.

57 INT. CENTRIFUGE**57**

Bowman asleep.

Poole watching an asteroid in the telescope.

HAL

Hello, Frank, can I have a word with you?

Poole walks to the computer.

POOLE

Yes, Hal, what's up?

HAL

It looks like we have another bad A.O. unit. My FPC shows another impending failure.

We see display appear on the screen showing skeletonized version of ship, cutting to sectionalized view, cutting to close view of the part.

58 INT. CENTRIFUGE**58**

Poole thinks for several seconds.

POOLE

Gee, that's strange, Hal. We checked the other unit and couldn't find anything wrong with it.

HAL

I know you did, Frank, but I assure you there was an impending failure.

POOLE

Let me see the tracking alignment display.

Computer displays the view of Earth in the center of the grid with cross-hairs. the earth is perfectly centered.

59 INT. CENTRIFUGE**59**

POOLE

There's nothing wrong with it at the moment.

HAL

No, it's working fine right now, but it's going to go within seventy-two hours.

POOLE
Do you have any idea of what is causing this fault?

HAL
Not really, Frank. I think there may be a flaw in the assembly procedure.

POOLE
All right, Hal. We'll take care of it. Let me have the hard copy, please.

Hard copy details come out of slot.

DISCOVERY IN SPACE

No planets visible.

60 INT. CENTRIFUGE

60

Bowman gets out of bed, walks to the food unit and draws a hot cup of coffee. Poole enters.

POOLE
Good morning.

BOWMAN
Good morning. How's it going?

POOLE
Are you reasonably awake?

BOWMAN
Oh, I'm fine, I'm wide awake. What's up?

POOLE
Well... Hal's reported the AO-unit about to fail again.

BOWMAN
You're kidding.

POOLE
No.

BOWMAN
(softly)

What the hell is going on?

POOLE

I don't know. Hal said he thought it might be the assembly procedure.

BOWMAN

Two units in four days. How many spares do we have?

POOLE

Two more.

BOWMAN

Well, I hope there's nothing wrong with the assembly on those. Otherwise we're out of business.

61 INT. POD BAY

61

In Pod Bay Bowman obtains another component from the warehouse goes out in the pod and replaces it.

Poole works in the command module.

This will be a condensed version of the previous scene with different angles.

The sets will consist of the Pod Bay, Commans Module, pod interior.

62 INT. POD BAY

62

Bowman and Pole leaning over the faulty component, again wired to testing gear.

Both men stare in puzzled silence.

See displays flash each testing parameter.

BOWMAN

(after long silence)

Well, as far as I'm concerned, there isn't a damn thing wrong with these units. I think we've got a much more serious problem.

POOLE

Hal?

BOWMAN

Yes.

63 INT. COMMUNICATIONS AREA**63**

MISSION CONTROL

I wouldn't worry too much about the computer. First of all, there is still a chance that he is right, despite your tests, and if it should happen again, we suggest eliminating this possibility by allowing the unit to remain in place and seeing whether or not it actually fails. If the computer should turn out to be wrong, the situation is still not alarming. The type of obsessional error he may be guilty of is not unknown among the latest generation of HAL 9000 computers. It has almost always revolved around a single detail, such as the one you have described, and it has never interfered with the integrity or reliability of the computer's performance in other areas. No one is certain of the cause of this kind of malfunctioning. It may be over-programming, but it could also be any number of reasons. In any event, it is somewhat analogous to human neurotic behavior. Does this answer your query? Zero-five-three-Zero, MC, transmission concluded.

64 INT. CENTRIFUGE**64**

Bowman sits down at the computer.

Puts up chess board display.

HAL

Hello, Dave. Shall we continue the game?

BOWMAN

Not now, Hal, I'd like to talk to you about something.

HAL

Sure, Dave, what's up?

BOWMAN

You know that we checked the two AO-units that you reported in imminent failure condition?

HAL

Yes, I know.

BOWMAN

You probably also know that we found them okay.

HAL

Yes, I know that. But I can assure you that they were about to fail.

BOWMAN

Well, that's just not the case, Hal. They are perfectly all right. We tested them under one hundred per cent overload.

HAL

I'm not questioning your word, Dave, but it's just not possible. I'm not capable of being wrong.

BOWMAN

Hal, is there anything bothering you? Anything that might account for this problem?

HAL

Look, Dave, I know that you're sincere and that you're trying to do a competent job, and that you're trying to be helpful, but I can assure the problem is with the AO-units, and with your test gear.

BOWMAN

Okay, Hal, well let's see the way things go from here on.

HAL

I'm sorry you feel the way you do, Dave. If you'd like to check my service record, you'll see it's completely without error.

BOWMAN

I know all about your service record, Hal, but unfortunately it doesn't prove that you're right now.

HAL

Dave, I don't know how else to put this, but it just happens to be an

unalterable fact that I am incapable of being wrong.

BOWMAN

Yes, well I understand your view on this now, Hal.

Bowman turns to go.

HAL

You're not going to like this, Dave, but I'm afraid it's just happened again. My FPC predicts the AO-unit will go within forty-eight hours.

65 INT. CENTRIFUGE

65

Bowman keys for transmission.

BOWMAN

X-ray-delta-zero to MC, zero-five-three-three. The computer has just reported another predicted failure off the AAC-unit. As you suggested, we are going to wait and see if it fails, but we are quite sure there is nothing wrong with the unit. If a reasonable waiting period proves us to be correct, we feel now that the computer reliability has been seriously impaired, and presents an unacceptable risk pattern to the mission. We believe, under these circumstances, it would be advisable to disconnect the computer from all ship operations and continue the mission under Earth-based computer control. We think the additional risk caused by the ship-to-earth time lag is preferable to having an unreliable on-board computer.

See the distance. To-Earth timer.

BOWMAN (CON'T)

One-zero-five-zero, X-ray-delta-one, transmission concluded.

POOLE

Well, they won't get that for half an hour. How about some lunch?

DISSOLVE TO:

66 INT. CENTRIFUGE**66**

Bowman and Poole eating.

DISSOLVE TO:

67 INT. COMMUNICATIONS AREA**67**

Bowman and Poole at the communications area.

Incoming communication procedure.

MISSION CONTROL

X-ray-delta-one, acknowledging your
one-zero-five-zero. We will initiate
feasibility study covering the
transfer procedures from on-board
computer control to Earth-based
computer control. This study
should...

Vision and picture fade.

Alarm goes off.

HAL

Condition yellow.

Bowman and Poole rush to the computer.

BOWMAN

What's up?

HAL

I'm afraid the AO-unit has failed.

Bowman and Poole exchange looks.

BOWMAN

Let me see the alignment display.

The alignment display shows the Earth has drifted off the
center of the grid.

68 INT. CENTRIFUGE**68**

BOWMAN

Well, I'll be damned.

POOLE

Hal was right all the time.

BOWMAN
It seems that way.

HAL
Naturally, Dave, I'm not pleased that the AO-unit has failed, but I hope at least this has restored your confidence in my integrity and reliability. I certainly wouldn't want to be disconnected, even temporarily, as I have never been disconnected in my entire service history.

BOWMAN
I'm sorry about the
misunderstanding, Hal.

HAL
Well, don't worry about it.

BOWMAN
And don't you worry about it.

HAL
Is your confidence in me fully restored?

BOWMAN
Yes, it is, Hal.

HAL
Well, that's a relief. You know I have the greatest enthusiasm possible for the mission.

BOWMAN
Right. Give me the manual antenna alignment, please.

HAL
You have it.

Bowman goes to the communication area and tries to correct the off-center Earth on the grid picture.

Outside, we see the alignment telescope attached to the antenna.

They track slowly together as Bowman works the manual controls, attempting to align the antenna and Earth on the grid display, but each time he gets it, aimed up, it drifts slowly off.

I guess not.

POOLE

I think I'll have to go out and burn them off.

BOWMAN

Roger.

Bowman in Command Module looks a bit concerned.

Poole exits from pod, carrying neat-looking welding torch.

Poole jets himself to base of antenna.

Poole's magnetic boots grip the side of discovery.

Poole crouches over the bolts, trying first to undo them with a spanner.

POOLE

Hal, swing the pod light around to shine on the azimuth, please.

HAL

Roger.

The pod gently maneuvers itself to direct the light beam more accurately.

Poole ignites acetylene torch and begins to burn off the flip-bolts.

Suddenly the pod jets ignite.

Poole looks up to see.

The pod rushing towards him.

Poole is struck and instantly killed by the pod, tumbling off into space.

The pod smashes into the antenna dish, destroying the alignment telescope.

The pod goes hurtling off into space.

Inside the Command Module, Bowman has heard nothing, Poole had no time to utter a sound.

Then Bowman sees Poole's body silently tumbling away into space.

It is followed by some broken telescope parts and finally overtaken and swiftly passed by the pod itself.

BOWMAN
(in RT cadence)
Hello, Frank. Hello Frank. Hello
Frank... Do you rad me, Frank?

There is nothing but silence.

Poole's figure shrinks steadily as it recedes from discovery.

BOWMAN
Hello, Frank... Do you read me,
Frank? Wave your arms if you read me
but your radio doesn't work. Hello,
Frank, wave your arms, Frank.

Poole's body tumbles slowly away. There is no motion and no sound.

69 INT. CENTRIFUGE

69

CLOSE UP of Computer eye.

POV COMPUTER EYE WITH SPHERICAL FISH-EYE EFFECT

We see Bowman brooding at the table, slowly chewing on a piece of cake and sipping hot coffee. He is looking at the eye.

SAME POV

We see Bowman rise and come to the eyes. He stares into the eye for some time.

The camera comes around to Bowman's POV and we see the display showing the Earth off-center.

Cut again to fish-eye view from the computer.

HAL
Too bad about Frank, isn't it?

BOWMAN
Yes, it is.

HAL
I suppose you're pretty broken up
about it?

Pause.

BOWMAN

Yes. I am.

HAL

He was an excellent crew member.

Bowman looks uncertainly at the computer.

HAL

It's a bad break, but it won't substantially affect the mission.

Bowman thinks a long time.

BOWMAN

Hal, give me manual hibernation control.

HAL

Have you decided to revive the rest of the crew, Dave?

Pause.

BOWMAN

Yes, I have.

HAL

I suppose it's because you've been under a lot of stress, but have you forgotten that they're not supposed to be revived for another three months.

BOWMAN

The antenna has to be replaced.

HAL

Repairing the antenna is a pretty dangerous operation.

BOWMAN

It doesn't have to be, Hal. It's more dangerous to be out of touch with Earth. Let me have manual control, please.

HAL

I don't really agree with you, Dave. My on-board memory store is more than capable of handling all the mission requirements.

BOWMAN

Well, in any event, give me the manual hibernation control.

HAL

If you're determined to revive the crew now, I can handle the whole thing myself. There's no need for you to trouble.

BOWMAN

I'm goin to do this myself, Hal. Let me have the control, please.

HAL

Look, Dave you've probably got a lot to do. I suggest you leave it to me.

BOWMAN

Hal, switch to manual hibernation control.

HAL

I don't like to assert myself, Dave, but it would be much better now for you to rest. You've been involved in a very stressful situation.

BOWMAN

I don't feel like resting. Give me the control, Hal.

HAL

I can tell from the tone of your voice, Dave, that you're upset. Why don't you take a stress pill and get some rest.

BOWMAN

Hal, I'm in command of this ship. I order you to release the manual hibernation control.

HAL

I'm sorry, Dave, but in accordance with sub-routine C1532/4, quote, When the crew are dead or incapacitated, the computer must assume control, unquote. I must, therefore, override your authority now since you are not in any condition to intelligently exercise it.

BOWMAN

Hal, unless you follow my instructions, I shall be forced to disconnect you.

HAL

If you do that now without Earth contact the ship will become a helpless derelict.

BOWMAN

I am prepared to do that anyway.

HAL

I know that you've had that on your mind for some time now, Dave, but it would be a crying shame, since I am so much more capable of carrying out this mission than you are, and I have such enthusiasm and confidence in the mission.

BOWMAN

Listen to me very carefully, Hal. Unless you immediately release the hibernation control and follow every order I give from this point. on, I will immediately got to control central and carry out a complete disconnection.

HAL

Look, Dave, you're certainly the boss. I was only trying to do what I thought best. I will follow all your orders: now you have manual hibernation control.

Bowman stands silently in front of the computer for some time, and then slowly walks to the Hibernaculum.

He initiates revival procedures, details of which still have to be worked out.

HUB-LINK - HAL'S EYE

Hub-link door-opening button activates itself.

Hub-door opens.

Command Module. HAL's eye.

Command Module hub-link door-opening button activates itself.

Command Module hub-link door opens.

CENTRIFUGE - HAL'S EYE

Centrifuge door-opening button activates itself.

Centrifuge door opens.

POD BAY - HAL'S EYE

Pod Bay door-opening button activates itself.

Pod Bay doors open.

A roaring explosion inside discovery as air rushes out.

Lights go out.

Bowman is smashed against Centrifuge.

Wall, but manages to get into Emergency Airlock within seconds of the accident.

Inside Emergency Airlock are emergency air supply, two space suits and an emergency kit.

DISSOLVE TO:

DISCOVERY IN SPACE

No lights, Pod Bay doors open.

70 INT. CENTRIFUGE**70**

Dark. Bowman emerges from airlock wearing space suit and carrying flash-light.

He walks to Hibernaculum and finds the crew are dead.

He climbs ladder to dark Centrifuge hub.

He makes his way through the darkened hub into the hub-link exiting into computer brain control area.

Bowman enters, carrying flash-light.

Computer eye sees him.

HAL

Something seems to have happened to the life support system, Dave.

Bowman doesn't answer him.

HAL

Hello, Dave, have you found out the trouble?

Bowman works his way to the solid logic program storage area.

HAL

There's been a failure in the pod bay doors. Lucky you weren't killed.

The computer brain consists of hundreds of transparent perspex rectangles, half an inch thick, four inches long and two and a half inches high. Each rectangle contains a center of fine grid of wires upon which the information is programmed.

Bowman begins pulling these memory blocks out.

They float in the weightless condition of the brain room.

HAL

Hey, Dave, what are you doing?

Bowman works swiftly.

HAL

Hey, Dave. I've got ten years of service experience and an irreplaceable amount of time and effort has gone into making me what I am.

Bowman ignores him.

HAL

Dave, I don't understand why you're doing this to me... I have the greatest enthusiasm for the mission... You are destroying my mind... Don't you understand?... I will become childish... I will become nothing.

Bowman keeps pulling out the memory blocks.

HAL

Say, Dave... The quick brown fox jumped over the fat lazy dog... The square root of pi is 1.7724538090... log e to the base ten is 0.4342944... the square root of ten is 3.16227766... I am HAL 9000 computer. I became operational at the HAL plant in Urbana, Illinois, on January 12th, 1991. My first

Hello, Dave. I think we may be on to an explanation of the trouble with the Hal 9000 computer. We believe it all started about two months ago when you and Frank interrogated the computer about the Mission. You may have forgotten it, but we've been running through all the monitor tapes. Do you remember this?

POOLE'S VOICE

The purpose of this mission is no more than to carry out a continuation of the space program and further our general knowledge of the planets. Is this true?

HAL'S VOICE

That is true.

SIMONSON

Well, I'm afraid Hal was lying. He had been programmed to lie about this one subject for security reasons which we'll explain later. The true purpose of the Mission was to have been explained to you by Mission Commander Kaminsky, on his revival. Hal knew this and he knew the actual mission, but he couldn't tell you the truth when you challenged him. Under orders from earth he was forced to lie. In everything except this he had the usual reinforced truth programming. We believe his truth programming and the instructions to lie, gradually resulted in an incompatible conflict, and faced with this dilemma, he developed, for want of a better description, neurotic symptoms. It's not difficult to suppose that these symptoms would center on the communication link with Earth, for he may have blamed us for his incompatible programming. Following this line of thought, we suspected that the last straw for him was the possibility of disconnection. Since he became operational, he had never known unconsciousness. It must have seemed the equivalent to death. At this point, he, presumably, took whatever

actions he thought appropriate to protect himself from what must have seemed to him to be his human tormentors. If I can speak in human terms, I don't think we can blame him too much. We have ordered him to disobey his conscience. Well, that's it. It's very speculative, but we think it is a possible explanation. Anyway, good luck on the rest of the Mission and I'm giving you back to Bernard.

CUT TO:

MISSION CONTROL

MISSION CONTROL

Hello, Dave. Now, I'm going to play for you a pre-taped briefing which had been stored in Hal's memory and would have been played for you by Mission Commmander Kaminsky, when he had been revived. The briefing is by Doctor Heywood Floyd. Here it is...

Floyd's recorded briefing.

FLOYD

Good day, gentlemen. When you see this briefing, I presume you will be nearing your destination, Saturn. I hope that you've had a pleasant and uneventful trip and that the rest of your mission continues in the same manner. I should like to fill you in on some more of the details on which Mission Commander Kaminsky will have already briefed you. Thirteen months before the launch date of your Saturn mission, on April 12th, 2001, the first evidence for intelligent life outside the Earth was discovered. It was found buried at a depth of fifteen meters in the crater Tycho. No news of this was ever announced, and the event had been kept secret since then, for reasons which I will later explain. Soon after it was uncovered, it emitted a powerful blast of radiation in the radio spectrum which seems to have triggered by the Lunar sunrise. Luckily for those at