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#### NUCLEAR REGULATORY COMMISSION

#### IN THE MATTER OF:

Proposed Briefing By Doe & Euratom Representatives on Export Matters

Place - Washington, D. C.

Date - Thursday, July 5, 1979

Pages 1-24

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#### UNITED STATES OF AMERICA

NUCLEAR REGULATORY COMMISSION

PUBLIC MEETING

PROPOSED BRIEFING BY DOE & EURATOM REPRESENTATIVES ON EXPORT MATTERS

\* \* \* \*

Commissioner's Conference Room 1717 H Street N.W. Washington, D.C.

Thursday, July 5, 1979

The Commission met, pursuant to notice, at

3:10 p.m.

Before:

DR. JOSEPH M. H 'DRIE, Chairman

VICTOR GILINSKY, Commissioner

RICHARD T. KENNEDY, Commissioner

JOHN AHEARNE, Commissioner.

Also Present:

Messrs. Voigt, Boudreau, Kuhn, Smith, and Shea.

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#### PROCEEDINGS

CHAIRMAN HENDRIE: If we could come to order, please, the Commission will then be able to move to the next subject on this afternoon's agenda.

We have a briefing here with the Department of Energy and, let's see, Euratom, as well.

MR. VOIGHT: No, just Department of Energy.

CHAIRMAN HENDRIE: On the order of export matters.

Bill Voigt, who is in charge of uranium, is, I guess, since he's sitting here in the middle of the table, seems to be the principal party on the other side.

What are you doing on the uranium, Bill?

MR. VOIGT: We're trying to export it.

[Laughter.]

CHAIRMAN HENDRIE: I thought the game was to try find more. Sending it away seems somehow to be going the other direction.

MR. VOIGT: Well, part and parcel of
my responsibilities are the establishment of the availability
of domestic resources. But the subject that I really want
to discuss today really relates to enrichment and our
perception of trying to be an assured source of supply,
in keeping with the adminstration's goal that indeed the U.S.
will be a reliable supplier of enrichment services to the
free world for those who accept the nonproliferation objectives.

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May I have the first chart, please.

[Slide.]

COMMISSIONER AHEARNE: Why don't you introduce your --

MR. VOIGT: Oh, I'm sorry, John, yes.

To my left is Ronnie Smith, who's director of our Business & Marketing operations, in URE.

This is Art Boudreau, who heads up my Contracting & Marketing activities.

And Don Kuhn, who is one of my contract specialists.

The first chart really indicates somewhat of a history of our contractual arrangements for enriched uranium, dating back to the early 1960s when we used to lease material to the utilities.

This really ceased in August of 1964 when the Private Orarship Act came into being.

We had, in 1969, what we call requirements type contracts, and these requirements contracts extended through December of '72, when we ceased letting any more requirements contracts in favor of what we call a long-term, fixed commitment contract.

The reason for this was the requirements contract really put the onus on the government in terms of responsibilities as contrasted to the utilities.

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The LTFC, the long-term, fixed commitment contract, was a 10-year contract with utilities which, in effect, put the onus back on the utilities, rather than on the government.

However, in the summer of 1978, we offered what we now term our adjustable fixed commitment contract which is really a shared contract -- when I say sharing, sharing the risk between the utility and the government, which is basically a five-year -- a rolling five-year contract.

COMMISSIONER GILINSKY: I wonder, before you get to that, if you could explain why the books were closed in --

VOIGHT: In 1974?

COMMISSIONER GILINSKY: -- 1974?

MR. VOIGT: In 1974 -- well, let me just step back one additional step.

The enrichment services criteria, which are criteria that must be approved by Congress, stipulated that we had the authority to contract with the utilities up to -- for the three existing gaseous diffusion plants, for the fully powered -- and fully improved through the cascade improvement and cascade upgrading program. That's a \$1.5 billion program which is about 70 percent complete today.

In the summer of '74, we had on the books at that particular point in time 323,000 megawatts under contract.

This reached the limit of those three existing plants, again 457 004

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when improved and when fully powered. We closed the order book.

It was not until January of '78 when we went back to Congress and sought amendments to that legislation, to that criteria, which would permit us not only to use the three existing diffusion plants, but the gas centrifuge plant as well.

COMMISSIONER AHEARNE: The authorization -MR. VOIGT: The authorization --

COMMISSIONER GILINSKY: Let me just ask you, could the purchasers of these -- of the fuel sell it to other utilities? In other words, could they trade in the fuel themselves?

MR. VOIGT: Yes. They can assign -
COMMISSIONER GILINSKY: Could they at that time?

MR. VOIGT: They can assign, under our existing

long-term, fixed commitment contract, with our approval, but
they have to seek our approval.

In other words, if, say, Country Y wanted to trade to Country Z, if there was agreement for cooperation with Country Z, and it fell within the megawatt range of our agreement for cooperation, if we approved of it, yes, indeed, it could.

But it was not until --

CHAIRMAN HENDRIE: Bill, the megawatts you're 457 087

1 talking are electrical capacity --MR. VOIGT: Yes, electrical, right. 3 CHAIRMAN HENDRIE: -- megawatts, gigawatts? MR. VOIGT: Yes, right. CHAIRMAN HENDRIE: 323. MR. VOIGT: 323 gigawatts. 7 COMMISSIONER GILINSKY: Let me ask one more question 8 on this point. Wasn't it clear that, given the projections for 10 nuclear power growth, that the fuel really couldn't be 11 taken at the rate it was contracted for? 12 MR. VOIGT: Yes. That is correct. 13 In fact, in 1975, we had what we call an open 14 season, an open season whereby each utility could either 15 delay or postpone the requirements for fuel. 16 COMMISSIONER AHEARNE: Or cancel? 17 MR. VOIGT: Or cancel. But that was free of 18 charge. 19 COMMISSIONER AHEARNE: See, there's a penalty, 20 otherwise. 21 MR. VOIGT: There is a termination charge --22 when a utility contracts with us right now, for example, he gives us what they call an advance payment. This is normally 23 24 around \$4 million for a 1000 megawatt reactor.

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If he terminates the contract prior to getting the

construction permit, he forfeits that advance payment. If
he has a construction permit, then it becomes increasingly
greater than \$4 million.

COMMISSIONER GILINSKY: I guess what I'm getting

COMMISSIONER GILINSKY: I guess what I'm getting to is that given in a real sense, the capacity is still there, although it had been spoken for --

MR. VOIGT: Contracted for, but not necessarily built. See, we were contracted, even though we were still undertaking the cascade improvements and cascade upgrading program, and the plant has not reached full power yet.

COMMISSIONER GILINSKY: Well, given the terrific impact that closing the books had, it could have been expected. Why wasn't this handled in some other way?

MR. VOIGT: Between '74 and '78, under the prior administrations, there was a push to have the enrichment enterprise vest, go into private hands.

This was under the auspices of the Nuclear Fuel Assurance Act, which was submitted to Congress and defeated by Congress in 1978 -- '77.

CHAIRMAN HENDRIE: It cycled for a couple of years, it seems to me, didn't it?

MR. VOIGT: '76.

I'm sorry?

CHAIRMAN HENDRIE: That act, or versions of it, cycled for a couple of years there, I think.

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MR. VOIGT: Really, I think only one year.

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COMMISSIONER AHEARNE: I thought they were strong

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CHAIRMAN HENDRIE: Okay. Sorry. Onward.

MR. VOIGT: Right now we're in the process of converting all the existing LTFCs to the new adjustable fixed commitment contract that I mentioned earlier. In fact, people have to notify us by September of this year as to their intent for conversion from the LTFC to the AFC.

> COMMISSIONER AHEARNE: How is that coming? MR. VOIGT: It's coming along very well. Very, very

About 98 percent of the current holders of LTFCs have indicated they want to convert.

May I have the next chart, please.

[Slide.]

Just to give you a little perspective in terms of the contracts, the adjustable fixed commitment contract does retain our fixed commitment features. It also takes advantage of the possibility in terms of modular centrifuge technology.

Now what basically that means is that in a gas centrifuge enrichment plant, you can build smaller increments, smaller modules; hence, in a five-year construction phase, so hence that is why we can incorporate a five-year provision

within a contract itself.

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As I mentioned earlier, the existing LTFC has very rigid provisions, little customer flexibility, and they have no provisions at all for adjusting or slipping requirements.

Now the basic thrust of entering into our new contract was to re-establish the United States as a reliable supplier, under reasonable terms and conditions.

And as I mentioned, the centrifuge technology allows shorter lead time for contract execution.

Next chart, please.

[Slide.]

Now I mentioned earlier that we had originally 323 gigawatts on the contract. The number of contracts we have now -- a number of those 323 were conditional on the passing of GESMO.

In other words, if GESMO was not passed, they had the option of getting out of that conditional contract. A number of them are terminated and right now on the books, including terminations, we have 303 gigawatts.

This represents about 303 contracts, representing 306 gigawatts.

As it can be seen, about one-third of our contracts are foreign, two-thirds are domestic. And about one-third of the totality of the contracts are requirements contracts. The other two-thirds are existing fixed commitment contracts.

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Next one, please.

[Slide.]

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Now talking about some of the roadblocks that we

have in supplying enrichment services, of course the

Nuclear Arms Proliferation Act of 1978 will require

subsequent arrangements be published in the Federal Register.

We are in the process of renegotiating some of

the agreements for cooperation, and we also have the right

for approval to re-transfer materials, no reprocessing.

Under the export license, a firm contract lends

certainty in the ability to export. Now, as I will show in a

few minutes, there have been a number of utilities that have

terminated DOE enrichment contracts and they've stipulated

that the major concern -- one of the major concerns is the

ability to get the material out of the country; that they do

not perceive DOE as a reliable supplier of material.

However, that in itself is not the only reason

course, URENCO in Germany, Eurodif, in terms of supplying

we are seeing foreign competition and nation lism. Of

both Italy and Spain, and Techsnab Export, Russia, is right

now supplying about 3 million separate work units to Europe.

For interest, both URENCO and Eurodif have

established offices in the United States and, in fact, one of

my friends in the audience is from URENCO today. He just

wanted to hear what the latest scoop was.

ideral Reporters, Inc.  [Laughter.]

Eurodif -- in fact, Russia is also making some moves to see if indeed they might not be a possibility of supplying some of our domestic reactors.

COMMISSIONER AHEARNE: Have you established offices anywhere outside the United States?

MR. VOIGT: No. But we have had marketing trips, and I'll touch on that a little bit.

CHAIRMAN HENDRIE: There's a -- if it's done right, there's a solution to the waste problem. You buy your fuel from the Russians and when it's burned up, you send it back to them.

[Laughter.]

COMMISSIONER KENNEDY: For reprocessing and retention there.

MR. BOUDREAU: If I may add, Mr. Chairman, we possibly could buy the SWUs cheaper from the Soviet Union as well, about 5 percent.

MR. VOIGT: It's been a standard practice, whenever we publish an update in our SWU chart, it just happens that Russia updates their charge 5 percent less than what we're charging. You can just track it as a function of time.

COMMISSIONER AHEARNE: We'll have to ask the GAO to study that.

MR. VOIGT: Of course, there have been actions by 457 - 093

state regulatory commissions, California de facto moratorium, 2 Wisconsin, and New York, appeared guestionable. Of course, 3 there are a lot of intervenor and ballot initiatives, like in Austria, no nuclear plants, Switzerland, a narrow victory for nuclear power, Montana and Sweden -- of course, we know --5 COMMISSIONER GILINSKY: You say these are roadblocks to DOE supplying enrichment services? 8 MR. VOIGT: This is of concern within a framework 9 that to be in the short source of supply -- I mean these are --10 these are stumbling blocks, is what I'm trying to say. 11 COMMISSIONER AHEARNE: What you really mean is 12 that they're potential reductions in the sales plan. 13 MR. VOIGT: Yes. 14 COMMISSIONER GILINSKY: Sales of his enterprise. 15 MR. VOIGT: Maybe it's the wrong choice of words. 16 COMMISSIONER KENNEDY: They're -- the most reliable 17 supplier is the one who meets the full requirements 18 of a zero market. 19 COMMISSIONER GILINSKY: I would think --20 MR. VOIGT: Some view that. . . Of course, 21 as you are well aware, the public perception of the China 22 Syndrome -- I won't even talk about TMI. I'm talking about 23 foreign policy issues, of course, India --24 COMMISSIONER GILINSKY: How did Montana get in 25 between --

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1	MR. VOIGT: Excuse me?
2	COMMISSIONER GILINSKY: Switzerland and Sweden?
3	[Laughter.]
4	CHAIRMAN HENDRIE: From Bill's standpoint, it's a
5	friendly Western power.
6	[Laughter.]
7	MR. VOIGT: Sometimes I can believe it.
8	Korea and again our revised ceiling and
9	agreement for cooperation, of course, South Africa, there
10	are some proliferation of foreign policy concerns.
11	Next chart, please.
12	[Slide.]
13	Now let's talk about the contracts that have
14	been terminated.
15	As you can see, on foreign, there have been
16	six German reactors and one Spanish reactor that have
.17	terminated contracts since June of '78. This represents
18	in value something on the order of \$1 billion.
19	COMMISSIONER GILINSKY: Have they shifted to
20	URENCO?
21	MR. VOIGT: The Germans have shifted to URENCO.
22	COMMISSIONER GILINSKY: Weren't they basically
23	doing this to keep URENCO orders up?
24 rs, Inc.	MR. VOIGT: Well, I think it's a function of two
25	things. I must admit that there was certain pressure by

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FIG to have the German utilities sign up with URENCO. I accept that.

But also, along with that, though, is their concern, and I've talked to them individually, their concern over the capability of getting the material out of the United States.

In fact, one utility indicated that he was legally bound -- in fact -- I don't know if we want to mention the name, -- but irrespective, that he was legally bound, that by law if he could not produce that he was liable for suit; imprisonment, as well.

Now --

COMMISSIONER KENNEDY: 'Which is even worse than a suit.

COMMISSIONER AHEARNE: What is the relative charge that URENCO and Eurodif ask in respect to what you're asking for?

MR. VOIGT: In terms of SWU price?

COMMISSIONER AHEARNE: Yes.

MR. VOIGT: It now appears that we have a cost advantage of somewhere between 30 -- \$20 and 30 a SWU.

COMMISSIONER AHEARNE: \$20 and \$30 % SWU?

MR. VOIGT: Yes.

CHAIRMAN HENDRIE: And a SWU is worth --

MR. VOIGT: Right now?

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23 24 ce-Federal Reporters, Inc. 25 CHAIRMAN HENDRIE: -- couple of hundred?

MR. VOIGT: No, the current fixed commitment contract price is \$88.65 a SWU.

COMMISSIONER AHEARNE: 88 --

MR. VOIGT: .- dollars and 65 cents.

CHAIRMAN HENDRIE: So it's 25 percent advantage?

MR. VOIGT: Something on that order.

We're also looking at some possible additional terminations and/or assignments of about six foreign reactors and about 15 U.S., both of which in value total something of the order of \$2.4 million.

COMMISSIONER GILINSKY: Let me ask you about the Spanish orders. Have they been shifted --

MR. VOIGT: Yes. They shifted to Eurodif.

COMMISSIONER GILINSKY: Are they partners in

Eurodif?

The major partner, and Iran and who ease - well, France, itself.

We are experiencing some problem at this particular point in time because Iran's nuclear program is kind of groggy, so to speak.

Next chart, please.

[Slide.]

I see as the principal issue of -- I'm talking about the U.S. government now, not DOE, not NRC, but

basically the -- what I would like to see is a five-year
export license which would be compatible with a five-year
ruling of adjustable fixed commitment contract.

We have been working with the NRC Staff attempting to get something analogous to what NRC recently—gave to

Mexico for the Laguna Verde. That if indeed that this would,
in my view, remove a lot of the anxiety from the foreigners'

minds if indeed they could see some form of a commitment on
the part of the government as a whole that for a finite
period of time they could be assured that they would be
getting some fuel.

COMMISSIONER GILINSKY: In your reference to Mexico, is because in that case there were a number of reloads. Is that the point?

I don't know what prevents applicants from coming in, you know, and asking for a number of reloads in one license. It has happened in a few cases, but as I understand it, it's not frequent.

MR. VOIGT: Jim, how frequent is it?

MR. SHEA: There is one case right here, a case where Westin house has asked for multiple reloads for Korea. So I think we may see more of this.

I know the executive branch has been looking at a policy on reloads, trying to work this out; but at this point, it's being --

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COMMISSIONER GILINSKY: Applications from Europe 1 are generally not multiple reload applications. 2 3 MR. SHEA: That's right. COMMISSIONER GILINSKY: And those, in fact, are the ones that have the smoothest sailing. In fact, I don't 5 think we ever even see them any more. COMMISSIONER AHEARNE: Have we turned down a 7 German fuel license? MR. SHEA: Multiple reload capacity? COMMISSIONER AHEARNE: Yes. 10 MR. VOIGT: There was at one time -- and this is 11 right after, I think, passage of the Nonproliferation Act 12 where there was a boggle for three to four months, on shipment 13 of some fuel to the U.N. supply agency. COMMISSIONER AHEARNE: Yes, because that was 15 because we hadn't taken the step called for in the end, 16 and agreed to enter the negotiations for --17 MR. SHEA: That's right. So it was required by 18 the act that exports be terminated across the board 19 and then several months later that agreement was --20 COMMISSIONER GILINSKY: Well, exempt exports, 21 exports in which certain restrictions had been implied. COMMISSIONER AHEARNE: It's a certain exemption 23 for which certain exemptions have not been permitted. That was because of explicit provision in the 25

1 act.

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Well, I just look at these.

MR. VOIGT: I see.

But like I say, we -- our people have been meeting with the --

COMMISSIONER KENNEDY: Some interpretations of it.

MR. VOIGT: We have been working with Jim Shea within the framework of trying to see if it is feasible to develop a rolling five-year export license and in my view this is what we need from an image standpoint, at least, and to establish the U.S. as a reliable supplier of enrichment services.

Really, that's the message I had today.

I might just add a takeoff on one of John's comments, we have intensified our marketing effort. I've sent a team to the Far East, Taiwan, South Korea, Japan, one in Europe. We just finished a team to -- went down to Mexico, and we're looking now to sending one to Turkey and Greece in the latter part of this year, again just to try to reacquaint them with what we're doing, and that we're back out in the marketplace trying to compete.

As a matter of fact, I think you were attending one we had in --

COMMISSIONER GILINSKY: Yes, we crossed paths.

MR. VOIGT: -- in London.

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COMMISSIONER AHEARNE: Are you in the market, Vic?
[Laughter.]

CHAIRMAN HENDRIE: Don't come here for a license.
[Laughter.]

In looking around for new commitments, you're looking not just at the difference between the currently contracted for 306 gigawatts of capacity, that is the difference between that and the 323 that presumably will be there when the cascade upgrade is completed, but you're also looking into the centrifuge capacity.

MR. VOIGT: We have the capability for signing contracts because that plant has been authorized by Congress. By rights, two new features -- or at least one significant feature of the new contract that we are offering, we are putting a lid on the tails assay of .25.

In other words, that we will not strip -- in other words, we will not require a fee for anything more than higher than .25 tails assay. If we do, the customer has the right to terminate free of charge.

We also put a lid on the ceiling as well, and the price, so that -- now with the three existing plants fully improved and upgraded, plus GCEP -- Gas Centrifuge Enrichment Plant -- will give us the self-sustaining capability for 325 gigawatts at a .25 tails assay.

So by rights, from where we are today, we have

1 the capability for signing up anywhere between 25 to 40 more gigawatts, without going back to Congress for additional enrichment authorization. 3 COMMISSIONER AHEARNE: That's at 8.8? MR. VOIGT: 8.8. 5 COMMISSIONER AHEARNE: Have you thought about your rolling five-year commitment -- and maybe I ought to ask Jim this -- what kind of an interaction did you envision A with respect to meeting any criteria in that MPA? MR. SHEA: Well, in general, criteria, of course, 10 have to be met and the only major focus that I have placed 11 on this was to be able to look ahead for some reasonably 12 short interval of time, and be fairly confident the criteria 13 would continue to be met, such as three to five years, 14 perhaps, in license exports and multiple reloads, for that 15 sort of period. But the criteria would, of course, have to 16 be continued to be met. 17 COMMISSIONER AHEARNE: Actually a long period, 18 you'd want to sign the contract. 19 MR. SMITH: The figure of the contract is only --20 COMMISSIONER AHEARNE: Yes, I know, but when you 21 would first be signing the --22 CHAIRMAN HENDRIE: It's a long time before we'd 23 see a license application, isn't that the problem, John? 24

COMMISSIONER AHEARNE: Yes, but my question was,

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when you first make the contact with them and would want to be able to give them a firm contract date they can get the stuff, did you have in mind being able to have it as a five-year block once the material starts being delivered, or would you want to be trying to make that commitment X years in advance when you first make the contract with them?

MR. VOIGT: I think it would be desirable, from the outset, when you sign the contract, with the understanding that indeed they would have a rolling five years from once the material started.

COMMISSIONER AHEARNE: Right. So that -- but that --

MR. SMITH: But they wouldn't apply for the license until some time later.

COMMISSIONER AHEARNE: Yes, I know. What I'm trying to think of is that -- so you're really talking about possibly say if you went out to a contract and tried to line up a contract today, the delivery might be to start somewhere around '85, so the five-year period runs to '90, ton start with, and that's what I was thinking. And that's --

MR. SHEA: That's a lot more, yes. We've indicated, I think, in our discussions that we couldn't promise export licenses well ahead, which I think was being hoped for.

COMMISSIONER AHEARNE: Have you had any discussions

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with the State Department or with the Congress on this?

MR. VOIGT: Yes, with State and with ACTA, not so much with Congress, although there's been a few discussions.

CHAIRMAN HENDRIE: Isn't the time even more than five or six years, that is, don't people that get that commitment in hand when they get a project start it?

MR. VOIGT: Not necessarily.

CHAIRMAN HENDRIE: What is your sort of -- sort of a reasonable mean time interval between contract and first fuel movement?

MR. VOIGT: Six to 10.

CHAIRMAN HENDRIE: So you're talking about periods which stretch out then from 11 to 15 years, but you're a long way out.

COMMISSIONER AHEARNE: Apply early.

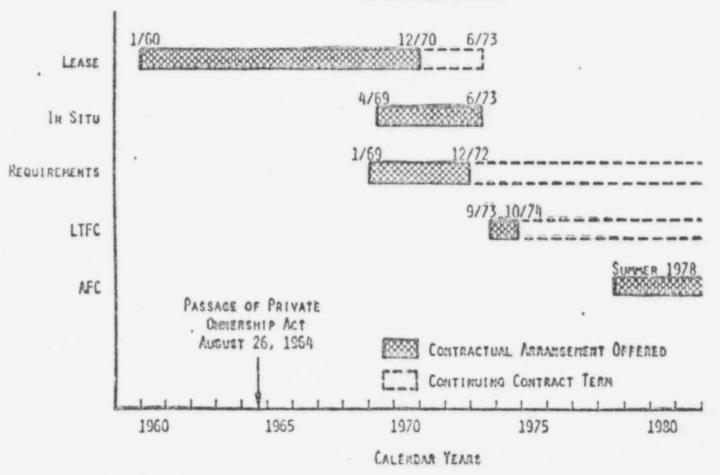
[Laughter.]

MR. VOIGT: Well, you see, I think we're pretty much in our dilemma within a framework that we're fairly sure that we have a very good SWU price in comparison to our competitors, the terms and conditions of our new AFC contract are competitive; we fully believe that our technology is superior -- well, people have debated me on that point. However, the next question is how can we really market this service, and with some assurance that indeed that Mr. Country X will get his material when he needs it

That's the problem we have. I thank you very much for your time. CHAIRMAN HENDRIE: Other questions? Thank you. Thank you all. [Whereupon, at 3:40 p.m., the meeting was adjourned.] 

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## U. S. GOVERNMENT CONTRACTUAL ARRANGEMENTS FOR EMRICHED URANIUM



# 57. 106

SEPT

#### NEW ENRICHMENT CONTRACT

#### ADJUSTABLE FIXED-COMMITMENT CONTRACT

- . BUTAINS FIXED-COMMITMENT FEATURES OF PRESENT ' TEC CONTRACT
- TAKES ACVANTAGE OF FLEXIBILITY INHERENT C ... JOULAR
  CENTRIFUGE TECHNOLOGY

#### EXISTING LONG-TERM FIXED-COMMITMENT CONTRACT

- . RIGID PROVISIONS LITTLE CUSTOMER FLEXIBILITY
  - NO PROVISIONS FOR ADJUSTING OR SLIPPING REQUIREMENTS

#### NEW CONTRACT-WHY OFFERED

- ESTABLISH U.S. AS RELIABLE SUPPLIER WITH REASONABLE TERMS/CONDITIONS
- . CENTRIFUGE TECHNOLOGY
  - ALLOWS SHORTER LEAD TIME FOR CONTRACT EXECUTION A"D FIRM-UP

# STATUS OF SIGNED TOLL ENRICHING CONTRACTS JUNE 1979

	No, of CONTRACTS	No. of REACTORS	ME
REQUIREMENTS			
DOMESTIC	444	87	74,767
FOREIGN	38	_46	24,471
SUBTOTAL	82	133	99,238
FIXED COMMITMENT			
DOMESTIC	130	121	126,023
FOREIGN	91	_91	81,333
SUBTOTAL	221	212	207,356
TOTAL	303	345	306,594

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## CONTRACTS TERMINATED SINCE JUE 1, 1978

U.S. ALLEN'S CREEK-1	HOUSTON LIGHTING & POWER	CONTRACT LYPE LTFC	性 1150	NOTIFICATION DATE JUNE 1979	TERMINATION  DATE  JUNE 1979	(\$ MILLIONS) 141
EDITELICA						
BASE	GERMANY	LTFC	770	June 1978	June 1978	99
Hame	GERWAY	LTFC	1100	DEC 1978	DEC 1978	173
VARIUM	GERMANY	LTFC	1211	Jan 1979	JAN 1979	147
PHILIPPSBURG-2	GERMANY	RECONT	864	FEB 1979	FEB 1979	75
VALDECABALLEROS	Spain	LTFC	926	FEB 1979	FEB 1979	92
BIBLIS-A	GERNAM	REOMT	1150	APR 1979	Ост 1982	214
HUERGASSEN	GERAWAY	REGMT	640	May 1979	May 1984	_105_
						\$1046

### POSSIBLE ADDITIONAL TERMINATIONS/ASSIGNMENTS

	MATER	DE	VALUE
U.S.	15	15,891	\$1.7 BILLION
FOREIGN	6	5,958	\$0.7 BILLION

#### ROADBLOCKS TO DOE SUPPLYING ENRICHMENT SERVICES

- O NON-PROLIFERATION ACT OF 1978

  SUBSEQUENT ARRANGEMENTS IN FEDERAL REGISTER
  RENEGOTIATION OF AGREEMENTS FOR COOPERATION
  APPROVAL TO RETRANSFER MATERIALS
  NO REPROCESSING
- O EXPORT LICEISES

  FIRM DOE CONTRACT WITH UNCERTAINTY IN

  ABILITY TO EXPORT
- O FOREIGN COMPETITION AND NATIONALISM URENCO/GERMANY
  EURODIF/ITALY, SPAIN
  USSR/EUROPE
- O ACTIONS BY STATE REGULATORY COMMISSIONS

  CALIFORNIA DEFACTO MORATORIUM

  WISCONSIN NEW PLANT APPROVAL VERY DOUBTFUL

  NEW YORK NEW PLANT APPROVAL QUESTIONABLE
- O INTERVENOR AND BALLOT INITIATIVE ACTIVITIES

  AUSTRIA NO NUCLEAR PLANTS

  SWITZERLAND NARROW VICTORY FOR NUCLEAR POWER

  MONTANA DEFACTO MORATORIUM

  SWEDEN NUCLEAR REFERENDUM
- O PUBLIC PERCEPTION OF RISKS, WASTES, ETC.

  CHINA SYNDROME MOVIE

  MOBILIZATION FOR SURVIVAL WORLDWIDE PROTEST

  THREE MILE ISLAND ACCIDENT
- O U.S. FOREIGN POLICY ISSUES

  INDIA HAVE NOT SIGNED NPT

  KOREA REVISED CEILING IN AGREEMENT FOR COOPERATION
  SOUTH AFRICA PROLIFERATION AND FOREIGN POLICY

  CONCERNS

POOR ORIGINAL

## ENRICHMENT EXPORT LICENSING

FIVE YEAR EXPORT LICENSE CONCEPT IS

COMPATIBLE WITH FIVE YEAR ROLLING FIRM COMMITMENT

PERIOD IN DOE ENRICHMENT CONTRACT

12007

11461

/wic

### POTENTIAL ENRIGHMENT MARKET OPPORTUNITIES

COUNTRY	UNCOMMITTED ENRICHMENT NEEDS BY 1990 (GWE)
BRAZIL	2.4
CHILE	0.6
DENMARK	0.9
FINLAND	0.9
GREECE	0.6
ISRAEL	0.9
KOREA	1.8
MEXICO	1.2
PAKISTAN	0.7
PHILIPPINES	0.6
PORTUGAL	0.6
SWEDEN	1.0
SWITZERLAND	0.6
TAIWAN	4.8
TURKE	0.9
YUGOSLAVIA	1.2
UNITED STATES*	?

<sup>\*</sup>DOMESTIC NUCLEAR PROGRAM UNCERTAIN