1. (LOU) TO TOM LYNCH FROM BILL BURNS. WE FOUND OUT AFTER THE FACT THAT VLADIMIR ZHIRINOVSKIY WAS A MEMBER OF A DUMA DELEGATION RECENTLY INVITED TO ATTEND A HARVARD MID-CAREER PROGRAM. (HE DECLINED BECAUSE HE WOULD HAVE BEEN A STUDENT, NOT AN INSTRUCTOR.) OUR CONSULAR SECTION HAS ALSO HEARD THAT THE WORLD AFFAIRS COUNCIL OF NORTHERN CALIFORNIA HAS INVITED ZHIRINOVSKIY TO SPEAK IN SAN FRANCISCO DURING THE SUMMIT NEXT MONTH. GIVEN THE CONTROVERSY SURROUNDING ZHIRINOVSKIY'S BEHAVIOR AND VISA PROBLEMS IN EUROPE, AND THE MEDIA CIRCUS THAT WOULD ACCOMPANY ANY TRIP TO THE U.S., HAS THE DEPARTMENT GIVEN ANY QUIET THOUGHT TO HOW TO HANDLE THE ISSUE IF IT ARISES (ESPECIALLY IN THE RUN-UP TO THE SUMMIT)?

2. (LOU) TO ISCA/CAST - LESLIE DAVIDSON FROM EST - KEN FAIRFAX: I FOUND OUT THIS MORNING THAT A CABLE THAT I THOUGHT I SENT FIVE DAYS AGO NEVER WENT OUT. THE TOPIC WAS POSSIBLE ORIGINS OF THE 560 GRAMS OF MOX
SEIZED AT THE MUNICH AIRPORT.  THE INFORMATION IN THE CABLE IS ALMOST CERTAINLY OBE BY NOW, BUT I THOUGHT I WOULD PASS ON JUST A FEW DETAILS JUST IN CASE THEY ARE STILL USEFUL TO ANYONE.  THE RENDITION OF FACTS IN THIS OI REPEATS THE ONLY PARTS OF THE CABLE WHICH MIGHT STILL BE OF INTEREST AND INCLUDES SOME NEW INFORMATION.  THE SHORT ANSWER IS THAT MY BEST GUESSES ON WHERE TO LOOK TO FIND THE ORIGIN OF THE 560 GRAMS OF PLUTONIUM/URANIUM OXIDE SEIZED IN MUNICH ARE: BELYARSK, DMITROVGRAD, OBNINSK, AND CHELYABINSK. DETAILS FOLLOW.

THE CABLE (WHICH WAS WRITTEN BEFORE WE KNEW ANYTHING ABOUT THE MATERIAL OTHER THAN THAT IT CONTAINED A MIXTURE OF LESS-THAN-WEAPONS GRADE PLUTONIUM AND URANIUM), REF'D SOME OF MY PREVIOUS CABLES ON MC&A AND PHYSICAL PROTECTION TO START FROM THE THESIS THAT A WELL-INFORMED THIEF FAMILIAR WITH RUSSIAN NUCLEAR MATERIAL CONTROL PRACTICES WOULD MOST LIKELY TARGET MATERIAL CONSIDERED TO BE

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SECRET

PAGE 03 MOSCOW 24061 01 OF 03 231517Z

WHILE PRESS SPECULATION ABOUT NUCLEAR FINGERPRINTING CONTAINS A LARGE DEGREE OF PURE HOKUM, IT IS TRUE THAT ONE IMPORTANT ELEMENT OF THE RUSSIAN SYSTEM OF PHYSICAL PROTECTION FOR PLUTONIUM IS A SYSTEM OF RULES GOVERNING WHAT INSTITUTES/FACILITIES AND WHO WITHIN THEM IS ALLOWED ACCESS TO PLUTONIUM. IN ADDITION, WHILE ACCESS TO HEU IS FAIRLY WIDESPREAD, ACCESS TO PLUTONIUM IS VERY RESTRICTED. BECAUSE ONLY A HANDFUL OF PLACES HAVE ACCESS TO PLUTONIUM AND EACH LOCATION GENERALLY HAS ACCESS TO IT IN ONLY A LIMITED
NUMBER OF FORMS, KNOWLEDGE BY RUSSIAN AUTHORITIES OF THE EXACT COMPOSITION OF A SAMPLE COULD GO A LONG WAY TOWARD PINPOINTING ITS SOURCE. WHILE FSK CONTROLS OVER PLUTONIUM AT MILITARY FACILITIES (INCLUDING MINATOM'S MILITARY NUCLEAR WEAPONS FACILITIES) ARE STRICT AND TIGHT ENOUGH TO ALLOW THE FSK TO ZOOM IN ON A SOURCE GIVEN THE CONTENT OF A SAMPLE, THE FSK DOES NOT CONTROL ALL NON-MILITARY SITES. AS NOTED ABOVE, SECRET

SECRET

PAGE 04 MOSCOW 24061 01 OF 03 231517Z
THE 560 GRAM SAMPLE PROBABLY CAME FROM A NON-MILITARY SITE.

SITES WITH ACCESS TO MOX: RUSSIA DOES NOT CURRENTLY USE MOX AS A STANDARD FUEL IN CIVILIAN NUCLEAR REACTORS. AS YOU KNOW FROM MY OTHER CABLES, HOWEVER, MIKHAYLOV IS ACTIVELY WORKING ON PLANS TO INCREASE THE USE OF PLUTONIUM AS A FUEL. THE "SCIENTIFIC AND RESEARCH INSTITUTE OF NUCLEAR REACTORS" (NIIAR) IS ONE OF TWO PRIMARY CENTERS FOR THE DEVELOPMENT OF MIXED PLUTONIUM/URANIUM OXIDE (MOX) FUEL ELEMENTS FOR VVER REACTORS. NIIAR, WHICH IS LOCATED IN DMITROVGRAD, OPERATES A NUMBER OF RESEARCH REACTORS WHICH UTILIZE HIGHLY ENRICHED URANIUM (HEU), PLUTONIUM AND MOX FUELS. THE OTHER PRIMARY MOX RESEARCH FACILITY IS THE MOSCOW-BASED "SCIENTIFIC AND RESEARCH INSTITUTE OF INORGANIC MATERIALS" (VNIINM), SECRET

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PAGE 01 MOSCOW 24061 02 OF 03 231517Z
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WHICH CONDUCTS RESEARCH ON MOX FUEL ASSEMBLIES FOR THE PLANNED BN-800 BREEDER REACTOR AND CURRENT VVER-1000 REACTORS. SCIENTISTS TELL ME, HOWEVER, THAT VNIINM DOES ENGINEERING RESEARCH ON PAPER ONLY AND DOES NOT HAVE PLUTONIUM ON HAND.

TWO OTHER INSTITUTES -- THE INSTITUTE OF PHYSICS AND POWER ENGINEERING IN OBNINSK AND THE INSTITUTE OF NUCLEAR RESEARCH AT DUBNA -- ALSO CONDUCT RESEARCH INVOLVING THE USE OF PLUTONIUM AS A FUEL SOURCE, ALTHOUGH SCIENTISTS HAVE TOLD ME THAT THEY BELIEVE THE SECRET RESEARCH AT DUBNA IS THEORETICAL ONLY AND THE FACILITY DOES NOT KEEP PLUTONIUM ON HAND. (BECAUSE DUBNA IS AN "INTERNATIONAL" FACILITY, KEEPING PLUTONIUM OUT OF DUBNA WOULD BE CONSISTENT WITH THE GENERAL RUSSIAN POLICY OF RESTRICTING ACCESS TO PLUTONIUM.)

THE BN-600 REACTOR AT THE BEOYARSKY NUCLEAR POWER PLANT (NEAR YEKATERINBERG) IS RUSSIA'S ONLY OPERATING "FAST BREEDER" CIVILIAN REACTOR. THE BN-600 IS CAPABLE OF USING A VARIETY OF FUELS, INCLUDING MOX, AND PRODUCES A FAIRLY LARGE QUANTITY OF PLUTONIUM WITH A PU-240 CONTENT IN THE ABOVE 10 PERCENT RANGE. ACCORDING TO SCIENTISTS IN MOSCOW, THE ENGINEERING LAB AT BEOYARSKY HAS FACILITIES FOR SEPARATING PLUTONIUM
AND WORKING ON EXPERIMENTAL MOX FUEL MIXTURES.

RUSSIA'S BIGGEST CENTER FOR NUCLEAR FUEL PRODUCTION OF ALL TYPES IS THE MAYAK COMPLEX (CHELYABINSK-65 PLUS MANY OTHER RELATED FACILITIES). RUSSIA'S PRIMARY FUEL REPROCESSING FACILITY (KNOWN AS RT-1) IS LOCATED AT C-65. UNLIKE THE MILITARY REPROCESSING FACILITY AT TOMSK-7, RT-1 WOULD ROUTINELY PRODUCE PLUTONIUM -- LIKE THE PLUTONIUM PORTION OF THE 560 GRAM SAMPLE SEIZED IN MUNICH -- WITH A Pu-240 CONTENT ABOVE THE LEVELS Normally Desired FOR BOMB MAKING. WHILE MAYAK IS PART OF THE MILITARY-RELATED COMPLEX AND IS Thus SUBJECT TO FSK SECURITY,

THE GAS TURBINE MODULAR HELIUM REACTOR (GT-MHR) THAT MIKHAILOV HAS BEEN PUSHING FOR THE LAST 10 MONTHS IS DESIGNED TO USE A VARIETY OF FUELS, INCLUDING PLUTONIUM. ACCORDING TO ITS PROONENTS, HOWEVER, THE REACTOR WILL USE PURE PLUTONIUM, NOT MOX. NONETHELESS, I THOUGHT I SHOULD NOTE THAT THE INSTITUTE OF NUCLEAR RESEARCH AT DUBNA IS THE PRIMARY SITE FOR DEVELOPMENT OF THE GT-MHR, ALTHOUGH RESEARCH ON FUEL FABRICATION IS ALSO TAKING PLACE AT TOMSK-7 AND THE NOVOSIBIRSK CHEMICAL CONCENTRATES PLANT. ALTHOUGH THE KURCHATOV INSTITUTE IN MOSCOW IS ALSO INVOLVED IN RESEARCH ON GT-MHR, KURCHATOV MANAGEMENT AS WELL AS NUCLEAR SAFETY INSPECTORS CONFIRM THAT THE INSTITUTE DOES NOT ROUTINELY HANDLE PLUTONIUM AND HAS ONLY A VERY SMALL QUANTITY ON HAND FOR SPECIAL RESEARCH PURPOSES.

(C) FOR JOHN HERBST FROM BILL BURNS: WE DELIVERED THE GORE-CHERNOMYRDIN LETTER ON NUCLEAR MATERIAL CONTROLS TO THE PM'S STAFF ON 8/22 (CHERNOMYRDIN HIMSELF WAS IN YAROSLVAL YESTERDAY).
In delivery also confirmed to White House via Privacy Channel.

4. (LOU) FOR JOHN HERBST AND NERISSA COOK FROM DICK SECRET

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PAGE 04   MOSCOW 24061 02 OF 03 231517Z
MILES, BILL BURNS, JEANNIE BOURGAULT, AND MASHA YOVANOVITCH PER 0-I 164 SENT 8/19, WE CHECKED INTO THE RETURN FLIGHTS FROM NIZHNIY TO MOSCOW FOR JIM COLLINS. ON WEDNESDAY, SEPTEMBER 7, THERE IS A FLIGHT THAT DEPARTS NIZHNIY AT 6:30PM AND ARRIVES MOSCOW AT 7:55PM. THIS IS THE ONLY FLIGHT IN THE AFTERNOON/EVENING. THE TRAIN OPTION IS NOT FEASIBLE: THE ONLY TRAIN THAT FITS THE TIME CONSTRAINTS TAKES EIGHT HOURS AND GETS INTO MOSCOW AT 4:00AM. THANKS FOR THE HEADS-UP ON THE FISCAL DATA FOR AN EMBASSY ADVANCE TEAM. JEANNIE HAD A CONVERSATION WITH JAN PAULK ON FRIDAY, AUGUST 19, DURING WHICH JAN AGREED TO SEND FISCAL DATA FOR A STATE OFFICER TO ADVANCE NIZHNIY (TOTAL COST SHOULD BE ABOUT $300.) THE AID FOLKS HAVE MONEY THAT CAN BE USED TO FINANCE THEIR PORTION OF THE TRAVEL. ONE AID OFFICER IS OUT THERE NOW TO DETERMINE THE BEST PROJECT SITES. TONIGHT, TUESDAY, AUGUST 23, WE ARE SENDING A POLITICAL OFFICER TO...

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PAGE 01   MOSCOW 24061 03 OF 03 231517Z
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SUBJECT: OFFICIAL-INFORMAL NO. 143, SENT 08/23/94

AND THE AID ADMINISTRATIVE OFFICER TO HANDLE THE
MEETINGS AND LOGISTICS, DESPITE THE FACT THAT WE DO
NOT YET HAVE FISCAL DATA. JAN MENTIONED THAT SHE
MIGHT WANT TO DISCUSS THE EMBASSY'S REQUEST FOR FISCAL
DATA WITH THE AMBASSADOR; HE HAS BEEN FULLY BRIEFED.
O-1 141 SENT 8/19 INDICATED MOST MEMBERS OF THE CODEL
WOULD WANT ACCESS TO THE EMBASSY. DOES THIS MEAN
ACCESS TO THE EOB CORE OR ACCESS TO THE NEC? AS YOU
KNOW, ANYONE NEEDING ACCESS TO THE CORE MUST SEND A
FRONT CHANNEL DS CABLE WITH THEIR CLEARANCES IN
ADVANCE. AT THIS POINT, WE HAVE NO ACTIVITIES PLANNED
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PAGE 02 MOSCOW 24061 03 OF 03 231517Z

FOR THE CODEL AT EITHER THE NEC OR THE EOB, EXCEPT FOR
THE SPOUSE LUNCHEON AND ACCESS FOR THIS EVENT WILL NOT
BE A PROBLEM. IF POSSIBLE, WE WOULD DISCOURAGE THE
DELEGATION MEMBERS FROM VISITING THE NEC, AS THEY
WOULD EITHER NEED TO BE CONSTANTLY ESCORTED OR A BADGE
SYSTEM WOULD NEED TO BE INSTITUTED. DID THEY HAVE A
SPECIFIC ACTIVITY OR MEETING IN MIND? LAST POINT: WE
WOULD APPRECIATE IT IF YOU COULD ENCOURAGE THE CODEL
TO SEND IN THE FLIGHT PLAN. GIVEN THE PROBLEMS WE
HAVE HAD IN THE PAST AND THE NUMBER OF USG PLANES IN
RUSSIA THE FIRST WEEK OF SEPTEMBER, SOONER IS
DEFINITELY BETTER.

5. (U) TO GLADYS BOLUDA AND SEBASTIAN LIBERATORE
FROM AMB. PICKERING. THANKS FOR YOUR HELP WITH THE
GUEST OF EMBASSY VISIT YESTERDAY. ALL'S WELL.

6. (UNCLASS) TO NERISSA COOK FROM DENNIS CURRY. PER
8/18 CURRY/PAULK TELCON. JAN PAULK INDICATED THAT MRS. LEAHY WANTED TO BRING MEDICINES WITH HER TO DONATE TO THE HOSPITAL SHE PLANS TO VISIT. RACHEL MAYS, CO-DIRECTOR OF THE HOSPITAL PROJECT SUGGESTED THE FOLLOWING: CHILDREN'S TYLENOL, OXYTOCIN (A LABOR-INDUCING DRUG), IRON PILLS-FOLIC ACID BILLS FOR PREGNANT WOMEN/NURSING MOTHERS, VITAMINS FOR PREGNANT WOMEN/POSTNATAL VITAMINS. THE RUSSIANS HAVE AGREED TO LET SUCH THINGS IN WITH NO SPECIAL PROCEDURES. VACCINES, HOWEVER, ARE REQUIRED TO BE TESTED, AND ARE THEREFORE NOT APPROPRIATE FOR A SIMPLE HAND-OVER. LIKEWISE, RACHEL MAYS SAID THE SYSTEM OF ADMINISTRATION OF ANTI-BIOTICS IS ALSO DIFFERENT ENOUGH FROM US SECRET

SECRET

PAGE 03 MOSCOW 24061 03 OF 03 231517Z
PRACTICE AS TO MAKE US ANTIBIOTICS HIGHLY PROBLEMATIC. ELIZABETH KVITASHVILI OF USAID ALSO SAID THE CHILDREN'S WARD NEEDS ALL SORTS OF THINGS LIKE COLORING BOOKS, CRAYONS, ETC. FOR THE CHILDREN INTERNED THERE. WE WOULD APPRECIATE IT IF YOU FORWARDED THIS INFORMATION TO MRS. LEAHY.

PICKERING

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