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merous U.S. Exports Went Into Iraqi

Projects for Mass Destruc

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found their way into Iraq's missile, nuclear, poison gas and germ weapon programs.

These exports included bacteria or fungus cultures, computers and electronic instruments, chemical process control equipment, and missile navigation and communications gear, according to a formerly

secret State Department document made public yesterday by House Banking Committee Chairman Henry B. Gonzalez (D-Tex.).

About two of every seven export licenses approved between 1985 and 1990 "went either directly to the Iraqi armed forces, to Iraqi endusers engaged in weapons production, or to Iraqi enterprises suspected of diverting technology" to weapons of mass destruction, Gongalez said in a speech on the House floor.

He and other legislators also contend that the executive branch either neglected or deliberately ignored a series of warnings about Iraq's procurement of U.S. equipment for its unconventional arsenal. President Bush has denied that the United States slept while Iraq armed, saying at a July 1 news conference that "we did not go to enhance [Iraqi President Saddam Hussein's] nuclear, biological or chemical capability" before the gulf war. Senior officials have said that most of the U.S. exports were benign and meant primarily to help draw Iraq into a closer economic and political relationship with the United States. U.S. and U.N. officials say, moreover, that dangerous exports to Iraq by American commercial firms were only a fraction of those by firms in other countries. A classified interagency report to Congress last year said Europeans "were key' to Iraq's immense chemical arsenal and also provided most of the foreign aid to other Iraqi weapons of mass destruction.

But evidence emerging from the U.N. and congressional inquiries demonstrates that U.S. exports

played a supporting role.

Iragi Uses Seldom Verified

Gonzalez disclosed yesterday, for example, that a dozen or so hightech exports were approved for use at Iraq's Salah Al Din, Saddam and Nassr State Establishments. inked by secret U.S. government reports before the gulf war to arms production or military research.

Atomic Energy Commission, which the CIA said in a secret report last

subycar had acted as a "cover" for the Iraqi germ weapon program. An-

In addition, the Bush administration approved 10 U.S. exports for the Technical and Scientific Materials Division of the Iraqi Trade Ministry, tied in a classified 1990 CIA report to "biological warfare support and numerous other military activities," according to Gonzalez.

"Iraq was able to obtain ... equipment of a predominantly commercial or civilian character, such as computers, from American firms for the Sa'ad 16 facility," Iraq's principal research and development center for ballistic missiles, said last year's classified interagency report to Congress. At least two of these exports occurred after 1986, when Sa'ad 16's purpose had been described in a secret Defense Department report to Commerce officials. Some of the exports were approved with conditions proscribing their use in nuclear or missile applications. But U.S. officials verified that Iraq was observing these con-

ditions on only one occasion, ac-

Cording to Gonzalez. "I ragically, in "the case of Iraq, the United States "did not adopt a policy of conducting "post-installation checks," Gonzalez "said yesterday.

Confidential Commerce Department files also reveal that the Reagan and Bush administrations approved at least 80 direct exports to the Iraqi military. These included computers, communications equipment, and aircraft navigation and radar equipment, Gonzalez said. Many of these exports were made before Iraq's eight-year war with Iran ended in 1988, a period in which Washington maintained an official policy of neutrality toward the combatants but vigorously worked to block foreign military purchases by Iran.

In addition, the U.N. Special Commission on Iraq secretly informed the administration six months ago that equipment from 11 American companies was found in Iraqi missile and chemical manufacturing plants. The equipment included a "filling system for projectiles," a "pressure and temperature regulator," a ballistic missile "X-ray machine" and the chemical ingredients of a deadly nerve agent, according to the report, a copy of which was obtained by The Wash-Sington Post. 같은 바라 이 안에 나는 것



Also, a recent confidential report by the International Atomic Energy Agency has identified at least 15 American companies that inspectors believe made major machine tools used or earmarked by Iraq for its nuclear weapons program, according to U.S. officials who spoke on condition that they not be named.

Much of the equipment discovered by the U.N. and IAEA reports was not sophisticated enough to be subject to U.S. export constraints at the time it was shipped, according to U.S. and company officials. All of the American firms named in the confidential reports, including Leybold, have denied any wrongdoing.

Feuding Among Agencies

The history of U.S. high-tech exports to Iraq, as depicted in hundreds of declassified administration documents surrendered in recent months to congressional investigators, is marked by a bitter, longrunning battle between the departments of Commerce, State and Defense, which uneasily shared responsibility for reviewing most license applications. Using the time-honored Bureaucratic ploy of deliberate delay, the Pentagon repeatedly tried to hold up exports it worried would help Iraq's nuclear and missile programs. "Iraq has been somewhat less than honest in regard to the intended end-use of high technology equipment" obtained from the United States, Richard N. Perle, then an assistant secretary of defense, complained in a 1985 memorandum to Secretary of Defense Caspar W. Weinberger.

The State Department responded with a steady stream of appeals for help to higher authorities at the White House. For a March 1987 meeting between then-Vice President George Bush and Iraqi Ambassador Nizar Hamdoon, for example, the proposed "talking points" for Bush from the State Department said: "From the Iraqi perspective, the long delays appear to be capricious. We agree with that assessment."

The Commerce Department found itself sometimes playing the mediator in this dispute and other times advocating commercial interests. Major disputes were occasionally settled by White House orders that freed for Iraq more than a dozen export licenses.

An early U.S. motive in expanding high-tech trade with Baghdad was to help bolster Iraq economically against Iran during the brutal war between the two countries. Even after the Iran-Iraq war, administration officials continued to promote U.S.-Iraqi trade in a failed effort to gain influence in Baghdad and moderate Iraq's behavior in the region.

Only a few of the U.S. exports to Iraq involved munitions. Virtually all the rest involved so-called "dualuse" equipment, ostensibly meant for civilian application but also capable of being used in a military program. U.S. law proscribed such exports to countries listed as supporting terrorism, a label Washington applied to Iraq before 1982 and reinstated one month after Iraq's August 1990 invasion of Kuwait.

In between those years, Iraq allowed at least three major terrorist organizations to operate from its territory, and provided refuge to Abul Abbas, a terrorist blamed for the notorious 1985 hijacking of the cruise ship Achille Lauro in which an American tourist was killed. But the Reagan and Bush administrations decided to leave Iraq off the terrorist list during this period in what officials say was a deliberate effort to avoid an interruption of trade that would jeopardize political ties and harm U.S. commercial interests.

As a result, Iraq was officially described under Commerce Department rules as a Free World nation—a designation that lumped Iraq with Britain and France in



Saddam's Assassination **Rumored** in Kuwait

By James Rupert

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Egypt's state-run news agency yesterday reported rumors in Kuwait that Iraqi President Saddam Hussein had been assassi-nated, but Iraqi opposition sources and U.S. officials said they could not confirm the account.

President Bush told reporters at the White House that the U.S. government had "no confirma-tion . . . at all" of the dispatch by , the Middle East News Agency, which was quickly reported by other news services. Iraqi media made no reference to the reports.

The ethnic Kurdish opposition movement based in northern. Iraq had no word of any assas-sination, said Hoshyar Zehari, s spokesman for the Kurdish Deni-ocratic Party. But something seems to be going on," he said. Kurdish groups reported "abnormal troop movements" vester-day at an Iraqi military cester near Irbil and "a huge explosion ... at the Ghazlani military camp[®] Monday in Mosul. Zebari said unusual numbers of security checkpoints had been. set up on roads leading from

SADDAM HUSSEIN 'no confirmation" of death the set setting た後の northern cities to Baghthose dad. tradi opposition groupe [ex-ported this ment that a military coup attempt against Saddam had been put down on June 29. While U.S. officials later quesapparently did occur.

tioned the coup report, suggestwithin Saddam's government, diplomats and Iraqi opposition figures have said some kind of confrontation within the military

gaining access to America's hightech goods. Export licenses could be refused to a Free World nation, only for a few reasons, such as risk

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of diversion to the Soviet Union, threat to regional stability or use in developing nuclear weapons.

As former undersecretary of commerce Dennis Kloske told a House Foreign Affairs subcommittee last year, without broader foreign policy controls on Iraqi exports, "we had no legal authority, I want to emphasize no legal authority, to deny an export to Iraq."

Paul Freedenberg, who served as assistant secretary of commerce for trade administration in 1988 and 1989, said the White House rejected his proposal at that time to

impose such foreign policy controls in response to Iraq's use of poison gases against Iranian soldiers and ethnic Kurds. The National Security Council under President Ronald

Reagan responded that "the licensing policy with regard to Iraq was ... normal trade," he said.

Pentagon Fears Dismissed

Officials say the internal wrangling was illustrated by the executive branch's handling of a 1987 application to export roughly \$1 million worth of computers and

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software to Nassr State Establishment, where the equipment was to be used in tool design

"This system could contribute directly to increasing Iraq's military force capability," the Pentagon said in one memorandum, adding that its export would undermine America's "image of neutrality" in the Iran-Iraq war then nearing an end. It bluntly called Nassr, where officials later said key Iraqi missile work was done, a "bad end-user."

But the State Department recommended approval "because there are no foreign policy controls applied to computer exports to Iraq, nor are there any other statutory or regulatory grounds for rejecting this case," according to an Aug. 10, 1988, summary of the debate prepared by the Commerce Depart² ment.

Iain Baird, then acting director of Commerce's Office of Export Licensing, subsequently wrote a memo to the Pentagon dismissing as legally irrelevant any concerns about Nassr's military ties and pointedly referred to the "recent NSC [National Security Council decision to more favorably review export license applications to Iraq." The license was finally approved on Oct. 18, 1988, 14 months after the application was received.

"We should begin a major effort to free up licensing requests ... to enable our companies ... to participate in development projects," a secret State Department document, entitled Guidelines for U.S.-Iraq Policy, said that year. Expanding U.S. high-tech exports, "more than anything else, can result in Iraqi efforts to improve ties. To Iraq, technology is our most important asset."

A 'Suspicious' Transaction

U.N. inspectors concluded after visiting Daura last year that the Leybold Vacuum Systems export of a high-tech welder from its offices in Connecticut had been a major as set to the Iraq nuclear development program. They found the welder "with a special fixture for holding the rotor tube" of a uranium centrifuge, according to a report published late last year.

The Connecticut firm, which has since sold its welding business to another company, was then a subsidiary of Leybold AG of Hanau, Germany, one of that country's largest makers of machine tools. The German company specializes in state-of-the-art vacuum technology considered essential, for precise manufacturing of centrifuges and other uranium enrichment equipment.

Leybold's American subsidiary also applied in December 1987 for a license to export a lathe to Iraq, and some Commerce Department officials questioned the application, according to internal department documents.

"The Iraqi government intends to use our system [after fitting it with a laser] for general military repair applications such as jet engines, rocket cases, etc.," the application for the lathe stated.

Chuck Guernieri, then acting chief of the department's review and referral branch, noted the reference to various military applications and promptly called for a special review "on the policy advisability" of approving "the export." In a memorandum to senior technical officials, he said, "If the U.S. is serious about proliferation of the ability to manufacture ballistic missiles in Third World countries, then it is difficult to be a consenting party to a transaction like this."

Kim Marsho, the licensing officer assigned to review the application, subsequently referred it to the department enforcement branch responsible for blocking illicit technology diversions.

"The transaction seems a bit suspicious," Marsho said in an internal memo. "They are removing the laser from the system and stating that it will be supplied by another yendor. Had the laser remained in the system, the application would require missile-tech review."

U.S. officials who spoke about the case **don't** condition the **don't** be named said licensing officers had ample grounds for suspicion. They said the parent company, Leybold AG, along with Degussa AGwhich was then an affiliate and now owns Leybold AG-has a long history of controversial sales of nuclear-related materials and high-tech industrial equipment to states such as Pakistan, India, North Korea,

Czechoslovakia, Romania and Libÿå. Jay Hatfield, the enforcement officer assigned to review the case, shared Marsho's concerns about potential diversion, according to a recent memorandum reconstructing the department's internal deliberations. Together with office director Michael Dennis, Hatfield plotted to block the export by sending it to the Defense Department for what he expected would be an interminable delay, according to the memo.

But Leybold's representative in Washington, Werner Hein, called Hatfield to complain that the government's review was taking too long, the memo states.

"I distinctly recall that he threatened on several occasions to take the matter to higher [Bureau of Export Administration, or BXA] authorities," Hatfield recalls in the memo. "Not long after my first conversation . . . Mr. Dennis called me into his office because he had received a phone call from BXA management. He told me that he was receiving pressure on this matter."

Senior export officials subsequently vetoed Hatfield's suggestion that the case be referred to the Defense Department, and ruled that it was not subject to missile technology controls. That left the licensing officer with no choice but to approve the application in February 1988, according to the memo.

Dennis, who is now in private industry, said in an interview that he does not recall any extraordinary pressure from senior officials in the Leybold case. The department's inspector general said in a report several months ago that his office had found no evidence to back up Hatfield's allegation of undue pressure.

But Rep. Doug Barnard Jr. (D-Ga.), who has been investigating the case, said that "the Commerce Department tilted excessively in favor of Iraq" and needs to be watched more carefully "to see that this kind of failure does not occur again."

Regarding the beam welder, Leybold AG told the Commerce Department in a lengthy june report that its Connecticut subsidiary had trained Iraqi technicians prior to shipping the device to Iraq via Germany in April 1988. The device was installed by Leybold AG employees at Taji, a facility that they said the Iraqis claimed performed only aircraft or aerospace work. The company said it has no reason to believe the equipment was misused.

U.N. inspectors found the welder at Daura after Iraqi officials said they moved it there to escape pombardment by U.S. and allied warplanes during the gulf war. The Iraqis acknowledge it was intended.

 for use in nuclear weapons.
Commerce Department officials say the approval of both licenses was appropriate given the export
policies in effect at that time. "In retrospect, it would have been wise

not to have approved this [beam welder] license," said Iain Baird, the department's export licensing chief, in a recent interview. "Knowing that this piece of equipment was in fact diverted by the Iraqis to unacceptable end-users, of course everybody wishes this license had not been approved and the equipment had not gone."

Company Vows Changes

Hartmut Pausch, a spokesman for Leybold AG in Hanau, Germany, said that "to date Leybold has not been found to have violated any export-related law or regulation." A spokesman for Degussa AG in Frankfurt said "to our best knowledge, all export deliveries to Iraq have been made in full compliance with the export control laws" in Germany.

But Pausch also acknowledged that "the Iraqi experience demonstrated to us, and to others, the need to be more aware of proliferation concerns." He said the company has comprehensively reformed its export procedures and its directors have formally pledged not to supply "commodities, technologies or services" directly or indirectly if the company has reason to believe they will be used for nuclear weapons.

The Commerce Department has similarly implemented what it calls an "Enhanced Proliferation Control Initiative" that places special restrictions on exports to countries determined to be pursuing chemical, nuclear, missile or germ weapons.

Secretary of State James A. Baker III sent an outline of some elements of the plan to Commerce Department Secretary Robert A. Mosbacher with a note that "Iraq's extraordinarily aggressive weapons proliferation efforts makes this situation urgent." The message was dated July 25, 1990, two weeks before Iraq's invasion of Kuwait.

Tomorrow: The German Connection