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Use of Tear Gas in Waco Raid Under Scrutiny: Siege: Experts raise safety questions. Reno says she was assured substance would not harm children.

By GLENN F. BUNTING
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TIMES STAFF WRITER

WASHINGTON — Since a government raid near Waco, Tex., turned into a fiery disaster two years ago, Atty. Gen. Janet Reno has steadfastly defended her decision to storm the besieged

Los Angeles Times

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But as the episode becomes the focus of renewed attention in the nation's capital and beyond, fresh questions are centering on certain tactics used by federal agents--specifically the firing of hundreds of rounds of a military-style tear gas into the camp--that may themselves have endangered the children.

At 6:02 a.m. on April 19, 1993, following a 51-day standoff, FBI agents in military tanks advanced from siege lines around the Branch Davidian compound and fired volleys of CS gas inside the buildings to immobilize the heavily armed occupants.

The wooden structures were filled with the gas over the next six hours before the building erupted into flames, leaving more than 80 people dead, including all of the children. Before giving the order to advance, Reno said, she was assured by military experts that CS gas would cause no serious harm or permanent damage to the children of the besieged cult members.

However, it is now clear that medical literature and manufacturers' warnings available at the time dispute that conclusion.

CS gas is potentially so hazardous when applied in confined spaces that California prison guards are cautioned against using it in the cells of unruly inmates. A Sherman Oaks company suspended sales of CS to the Israeli government in 1988 at the same time Amnesty International linked the gas to the deaths of Palestinians in homes and other buildings in the occupied territories.

Although adults can withstand CS exposure by wearing gas masks, and the Branch Davidian compound was well stocked with military equipment, no masks were available to properly fit children.

"All of those young children who breathed that gas for hours and didn't have masks would have been in intensive care if they had survived," said Dr. Alan A. Stone, a Harvard University professor of law and psychiatry who was chosen by the Justice Department to review its performance at Waco and only recently began to speak out. "This seems so clear and apparent that it's hard for me to imagine how the attorney general, who I have great respect for, could have OKd this."

The official cause of death for the children, whose bodies were badly burned in the blaze, could not be determined. Smoke inhalation was a leading possibility. However, autopsy records also show that some of the victim's bodies contained cyanide, a chemical emitted when CS gas--and other substances such as plastic--are heated in a fire. Many of the toddlers and infants may have been overcome by the gas before they died, some experts believe.

In contrast, a government specialist in riot-control agents who requested anonymity said scientific studies indicate that it would be "almost virtually impossible" for large quantities of CS to severely injure any of the Davidians, including the 17 children under age 10. And Justice Department officials say they doubt that many, if any, Davidians breathed significant amounts of

CS because of strong winds that whipped through large holes knocked in the building by tankmounted battering rams to insert the gas.

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Controversy surrounding the Branch Davidian incident has been fanned by the Oklahoma City bombing on April 19, the second anniversary of the Waco blaze. The leading suspect in the fatal attack on the federal building, Timothy J. McVeigh, reportedly considered the Waco siege an example of government's intention to crush individual liberties, particularly the right to bear arms.

He is not alone. Some conservatives and civil libertarians question whether the full story of the government's actions at Waco has come to light. At least two congressional committees plan to hold hearings into the Branch Davidian incident this summer.

Officials at the Bureau of Alcohol, Tobacco and Firearms, which conducted the initial raid at Waco to serve search warrants related to weapons violations, maintain they have learned painful lessons from their mistakes and adopted changes to ensure they are not repeated.

But the Justice Department has denied being at fault, instead blaming the loss of life solely on Branch Davidian leader David Koresh, who was suspected of stockpiling illegal weapons.

"There is much to be angry about when we talk about Waco, and the government's conduct is not the reason," Reno told a gathering of federal law enforcement officers this month. "David Koresh is the reason."

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Henry Ruth, a former federal prosecutor who served on the independent board that reviewed the ATF's actions, said he found the Justice Department's review of Waco full of glowing appraisals.

"That is appalling to me when children die in a fire and there is a precedent for it," said Ruth, citing the five children who burned to death in 1985 when authorities dropped a bomb on the MOVE community building in West Philadelphia. "When they don't learn their lessons, are children going to die the next time?"

The FBI was called in on Feb. 28, 1993, to resolve an exceedingly difficult situation at the Branch Davidians' compound after the ATF raid there went awry. As ATF agents stormed the compound, armed cult members opened fire, killing four officers and five Branch Davidian members. After negotiating a cease-fire with Koresh, the FBI decided that its principal goal was gaining the release of the children inside, according to the Justice Department review of the incident.

Koresh sent out 21 children and 14 adults through March 23. But the releases stopped, and he showed no willingness to surrender.

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As weeks passed, the uncertainty about the outcome began to mount. The FBI's longest previous standoff had lasted four days. When the Waco encounter entered its second month, the situation became more "dangerous" because of the difficulty in maintaining security around such a large area and because the FBI's hostage rescue team was exhausted and in need of retraining, Reno said. The FBI had no backup unit.

On the 22nd day, FBI officials recommended using tear gas to clear the compound. Three weeks later, on April 12, the attorney general was briefed on the FBI's proposal to use CS gas.

In meetings with military experts, Reno was reassured that the plan to drive out the Branch Davidians with gradual applications of CS gas was safe. They referred to cases of children who had completely recovered within hours of being exposed to CS with no long-term effects.

Reno spent more time weighing the merits of the gassing strategy than any other issue at Waco, said Justice Department spokesman Carl Stern. Among those she consulted was Harry Salem, a toxicologist at the Army's Chemical and Biological Defense Command.

Reno was advised that although no laboratory tests measuring the effects of CS gas on children had been performed, "anecdotal evidence was convincing" that there would be no permanent injury, according to the Justice Department report. "The military personnel made Reno feel more confident with the concept of tear gas, as opposed to the original concept in her mind of 'gassing,'" the report said.

Salem declined to be interviewed. In written responses to questions submitted by The Times, Salem wrote that CS can be used indoors as long as safety ratios are not exceeded. Achieving lethal concentrations of CS, Salem wrote, would be "extremely difficult."

After the Waco standoff's fiery end, Stone, one of the experts retained by the Justice Department to examine what happened, specifically requested the briefing materials Salem provided to Reno. Stone said he was furnished a copy of a 1971 report by the British government that advocated CS as a crowd-control agent in open-air settings.

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"There was nothing the attorney general was given in her material and nothing I was ever given which addressed the problem of CS gas in a closed space," Stone said.

Stone issued a scathing 33-page report in November, 1993, which the Justice Department declined to make available, that criticized the decision to deploy CS gas. In the Justice Department report, Stone wrote, there is no mention during Reno's deliberations that young children do not have the lung capacity to use gas masks.

"I find it hard to accept a deliberate plan to insert CS gas . . . in a building with so many children," Stone wrote. "It certainly makes it more difficult to believe that the health and safety of the children was our primary concern."

Reno has discounted Stone's criticism, saying he lacks expertise in the field of toxicology.

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The danger of applying CS in enclosed spaces is spelled out in an array of medical literature and manufacturers' reports, including the Army's guidelines on civil disturbances. Army Field Manual FM 19-15, published in 1985, warns that CS "is not to be used in buildings, near hospitals or in areas where lingering contamination could cause problems."

Kelly Donahue, spokeswoman for Federal Laboratories Inc., which produces CS gas, said the chemical is designed for use in a large, open area. "If you were to shoot too much in a building or enclosed area, you could suffocate individuals."

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CS takes its name from two scientists, B.B. Corson and R.W. Stoughton, who invented it in 1928. The chemical, ortho-chlorobenzal malononitrile, is considered a "super tear gas" because it works instantly, causing burning eyes, coughing, breathing difficulty, stinging skin and vomiting. Though it is commonly referred to as a tear gas, CS is actually a white crystal that looks like talcum powder. In 1959, the Army adopted CS as its standard riot-control agent, and the chemical was used extensively in the Vietnam War.

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The widespread use of CS by South Korea on hundreds of thousands of civilians in 1987 was researched by the Physicians for Human Rights group. After discovering that civilians suffered serious acute illnesses, sometimes with permanent injury, the group called for banning the use of CS on humans.

"Exposure to high concentrations of tear gas in small, enclosed spaces for 10 minutes is potentially lethal, particularly to infants and children. . . ," the organization concluded.

High levels of CS exposure have led to heart failure and death in adults, according to a 1989 report in the Journal of the American Medical Assn. The principal author of the study, Dr. Howard Hu of Harvard University Medical School, said he would have strongly recommended against firing CS into the Branch Davidian compound if there was any chance the occupants would remain inside.

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In the days leading up to the assault, FBI officials told the attorney general they planned to introduce the CS gradually over two or three days. They hoped to force the Davidians out the front door by using gas at opposite ends of the compound.

But the tear-gas raid on April 19 was anything but gradual.

Within minutes of the initial delivery of two bottles of CS, the Davidians fired automatic weapons at the military armored vehicle, according to the Justice Department report. Two M-60 tanks and four Bradley fighting vehicles responded by launching an all-out assault on all areas of the building. Under the plan approved by Reno, the FBI was authorized to escalate the gassing operation if the tanks encountered resistance.

By 6:31 a.m., half an hour after the mission began, the entire building had been filled with CS. The rest of the morning, the FBI continued to deliver gas volleys through all openings of the residential structure to increase the pressure on the occupants.

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The attack was so rapid that the tanks quickly exhausted the supply of tear-gas canisters that was to last for several days. At 7:45 a.m., senior FBI officials requested additional rounds of CS from field offices around the country. By the time the final gas volleys were fired at 11:40 a.m., the Bradley tanks had fired at least 300 rounds at the building and the M-60 combat vehicles had made six gas injections.

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Clive Doyle was inside the chapel when an M-60 tank burst through the front door spraying CS and as additional so-called ferret rounds from the Bradley vehicles landed through the windows. While most Davidians in the chapel had gas masks, Doyle said, they only worked for about half an hour before the filters started to fail. He said there were screams as the gas burned the skin of some people and left others gasping.

"The ferret rounds were almost like rockets," said Doyle, 54, who lived at the compound off and on for nearly three decades and was acquitted of all charges at the Branch Davidian trial last year.

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"They crashed through windows, came whistling past your head and embedded themselves in the wall," he said. "You could hear them hissing once they broke open. We were praying to God that somehow we would be delivered."

Doyle said there was "no doubt" the gas poured into an aboveground concrete bunker where the women and children had retreated. The 20-by-21-foot bunker, which had been used as a locked vault and food cooler, was waist-deep in stored ammunition.

"The children had no protection from [the gas] being sprayed because there were no windows or major holes," Doyle said. "I can imagine it was agonizing for them without gas masks and being in a cul-de-sac part of the building with no wind."

FBI officials offered a contrasting view. They say that any suggestion that CS could have worked its way through rooms into the bunker is highly improbable.

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"They probably would not have had to don gas masks or shed one tear from the CS that would have entered that bunker," said the government specialist on tear gas.

The charred remains of children, including at least 10 who were younger than 3, were found in the bunker along with 13 women, seven men and a fetus. Coroner's investigators determined that mothers put wet blankets around the children and held them in their arms before they died.

Given the large quantities of CS pumped into the building, it would have been very difficult for children to have walked out to safety, as envisioned by the FBI plan, some experts say.

"The kids would never have made it," said George F. Uhlig, a retired Air Force lieutenant colonel and professor of chemistry at the College of Eastern Utah who has researched the use of CS at Waco. "Eventually you pump in enough gas and you exclude breathing."

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An arson investigation team compiled by the Texas State Rangers found that the ensuing fire that engulfed the compound was deliberately set by one or more people inside the building. The team concluded that the fire was not caused or spread by any chemicals used in the gassing operation.

It is unclear how many Davidians inhaled the CS gas, according to the Justice Department report. The passage of at least an hour between the last gas attacks and the end of the fire would have allowed evidence of the gas to dissipate in the bodies.

"It is impossible to predict what role CS played in this case," said Dr. Nizam Peerwani, chief medical examiner of Tarrant County, Tex., whose office performed the toxicological tests on the bodies.

While the criticism has mounted, the Justice Department has held firm that the use of the CS was appropriate. Within the past two weeks, Reno went back to Salem to ask him about the safety of CS gas, according to Justice Department spokesman Stern.

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"He hasn't changed his thinking at all," Stern said.

Times staff writer Ronald J. Ostrow contributed to this story.

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