

U.S. Hotel/Motel Carbon Monoxide Incidents - 1967 to date (9-21-2023)

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	State	City	Date of incident response	Victims	Name of facility	Chain/member hotel	# of deaths <i>(includes children)</i>	# of injured <i>(includes children)</i>	# of child victims <i>(18 and under)</i>	Source of CO	Location of source and/or problem	Incident details/notes
1	OH	Boston Heights	11/18/67	Betty Ann Bishop, 50 & sister Mary "Budd" Bishop, 56 (both deceased); Bruce, 22 (deceased) & wife Joan Plagman, 21 (injured)	Best Western Yankee Clipper Inn	Y	3	100		pool heater	basement laundry room	11/18/1967 was a Saturday and over 500 people were at hotel for three different weekend events; a couple began to feel dizzy about 6:30pm and went to their room thinking they were catching the flu or ate something bad, at 11:30pm the man called the front desk for help because his wife had "fainted"; hotel sent a doctor who was onsite at a medical conference to their room - he was suspicious it was something they might have inhaled and called for an ambulance; at the same time the couple arrived to the emergency room, another couple arrived with the same symptoms from the hotel; CO was immediately suspected by an ER doctor and "every ambulance possible" was sent to hotel, along with "two hundred police officers, deputies and firefighters"; "hotel was seven stories, 21 rooms to a floor, and most were occupied"; room by room evacuation, guests were found "sprawled on floors, stretched across beds, moaning incoherently"; evacuation took two hours to complete; 3 people were discovered deceased, more than 100 people were injured, 60 hospitalized including six police officers who assisted with evacuation; carbon monoxide was traced to a swimming pool heater in a basement laundry room. "It's vent had been installed too closely to a fresh-air intake, which spread fumes through ducts to the upstairs"
2	IL	Glen Ellyn	12/10/67	Susan, 21 (deceased), & husband Anthony Grieshaber, 19 (injured), Mrs. Peter Decker, 45 (injured) & daughter Christine Decker, 17 (injured)	Holiday Inn	Y	1	3	1 injured	heating unit		couple was staying on fourth floor and were found by clerk - she was deceased, he was unconscious; woman and her daughter were staying in room on second floor were ill and taken to hospital - they had checked in around 11pm, woman was dizzy and nauseated when awakened by her daughter who was vomiting around 5am; motel was four-stories with 121 rooms and had been open for approximately one week; CO entered 14 rooms of hotel via "one or more loose-fitting joints in the metal tube chimney"
3	OK	Lawton	12/28/67	Linda F. Klinekole, 20 (deceased)	Hacienda Motel		1			heater	room	Victim found deceased in room
4	OH	Ironton	1/3/68	Walter Kelley, 43 (deceased) & wife Lucille Kelley, 41 (injured)			1	1		heater	office	victims were owners of the motel, husband found deceased in office and wife unconscious in adjoining bedroom
5	CO	Aspen	12/22/68	Jacquelyn Lazan, 24 (deceased), Joy Levy, 24 (injured)			1	1		heater	room	victims discovered by manager when they failed to check out; snow delayed injured victim's transport by helicopter to a treatment facility in Denver
6	OK	Kellyville	12/31/68	Richard Kuffel, 39 & wife, Darlene, 31, & their 5 children (all injured)				7	5 injured	heater		victims were a couple and their 5 children; father was awakened by one of the children who was vomiting and crying - staggered to door and called for help; motel manager called ambulance; motel was newly opened
7	CA	Norden	12/31/68	Germaine Cliff, 18 (deceased)			1		1 deceased	heater	room	
8	FL	Holly Hill	1/20/69	William T. Byram, 54 & wife Martha, 35 (both deceased)	White Palms Motel		2			gas range	room	victims were permanent residents of the motel, discovered deceased in their room by a friend; cause determined to be a coffee pot that "boiled over, extinguishing the flame and allowing the gas to escape"
9	AZ	Tucson	1/22/69	James R. Johnston, 78 & wife Ethel, 77 (both deceased)	Gammill Motel		2			wall heater	room	victims discovered deceased in their room by a friend six days after they were last seen alive
10	UT	Soldier Summit	2/11/69	Jimmy Inskip, 15 (deceased)			1		1 deceased			
11	MN	Rochester	2/16/69	Barbara Briggs, 21 (deceased)	Rochester Motel		1			gas heater	room	victim discovered by employer when she failed to show up at work two days in a row; she had been living at the motel
12	TX	Victoria	2/22/69	Sonia Medrano, 42 (deceased) & Ruben Cantu, 35 (injured)	Ranch Motel		1	1		heater	room	victims found by hotel manager at 3:00pm when they failed to check out at noon; woman found lying across bed, death approximated to be five hours earlier, and man was found unconscious on floor
13	TX	El Paso	3/16/69	Jeri, 32 (deceased) & husband Carl Cappel, 40 (injured)	Del Camino Motor Inn		1	1		furnace	room	victims discovered in their room when they failed meet traveling companions for breakfast, wife dead and husband unconscious; "a gas floor furnace in the room was found to have faulty pipes"; owner/manager subsequently charged with negligent homicide
14	LA	Opelousas	12/24/69	Mr. & Mrs. Everette Witt (both injured)				2				Fire Dept called to motel at 4:30am for "couple overcome with gas fumes"
15	AR	Hot Springs	1/12/70	Ernest J. Sander, 72 (deceased) & wife Emma Sander (injured)	Central Motel		1	1				victims checked into motel on 1/8, both ill and weak on 1/10 and doctor was called to hotel initially diagnosed with possible pneumonia; on 1/12 owners and maid found husband unconscious and wife semi-conscious, transported to hospital where husband died 4 days later; source of CO undetermined - 2 gas heaters and a gas stove in room
16	CA	Palm Springs	4/17/70	Cyril Joseph Carey, 47 (deceased)	Sunshine Court Motel		1			heater		
17	FL	Delray Beach	11/26/70	Lovella Hagabook, 45 (deceased) & husband (injured - no name or age listed)	Fred's Motel		1	1		charcoal heater	room	

18	CA	Hollywood	12/20/70	Joseph Felice, 21 (injured), Phillip Martone, 21 (injured)	Chesterfield Hotel			2		heater	room	hotel employee found both victims unconscious in their room when they failed to check out; Felice was unconscious for six weeks and Martone was unconscious for five days until receiving appropriate treatment in for CO poisoning; both originally diagnosed as suffering from a drug overdose until they were transferred to a different medical facility where they were diagnosed with CO poisoning
19	NM	Ruidoso	12/30/70	John Grisham, 18 (deceased), Rod Krebbs, 17 (injured), Leland Parks, 17 (injured), Andrew Grub, 17 (injured), Keith Ellis, 18 (injured), Tim Ridpath, 18 (injured)	West Winds Motel		1	5	1 deceased 5 injured	heating stove	room	victim was among 5 other teenagers who were staying at motel for skiing holiday; they all began experiencing nausea and headaches during first night's stay (Monday), completely slept thru next day (Tuesday), Wednesday 3 of them went out to get fresh air and something to eat and when they returned were unable to rouse victim, unable to locate manager so drove hospital to notify ambulance and police
20	TX	Brownsville	12/31/70	Felix Valadez, 23 (deceased) & fiancée Olga Perez, 20 (deceased)	Jayhawk Motel		2			heater	room	victims discovered deceased in room by motel owner - they had checked in at 12:30am and at 6pm owner went to room to inquire if they would be spending a second night
21	OK	Hammon	1/14/71	Woodrow "Buck" Snow, 55 (deceased) & wife Alene Snow, 50 (deceased)			2			wall heater	room	checked into hotel two days before being found deceased in room, along with their dog, by motel owners; woman's body found in bed, man on floor
22	IN	East Chicago	1/20/71	Ida Mae Watt, 11 (deceased) & mother Gloria Jean Cottrell, 33 (injured); George Stinnet (deceased), Gene Allen, 50 (deceased), Eli Wilkins, 30 (deceased)	Stevens Hotel		4	9	1 deceased	furnace	basement	police called to hotel by hotel maintenance worker at 3:15am, surviving guests discovered "in various stages of unconsciousness"; police smashed windows to let in fresh air; two-foot section of "rotted" furnace flue pipe seperated from chimney was discovered on basement floor; per subsequent investigation and coroner's inquest, after hotel manager was taken to hospital for what was initially thought to be a heart attack around 9:30pm, then a second employee became ill with same symptoms a few hours later, the owner checked on the furnace - he then called furnace repairman at 2am to report flue pipe had fallen off and was instructed to shut off furnace and open basement windows; police testified furnace was running when they arrived and one basement window was open; hotel had been listed for sale two weeks prior; boiler had never been inspected according to Indianapolis city records
23	CA	Pacifica	1/22/71	Constance Joy Salciccia, 39 (deceased), Lawrence Owen Withey, 38 (deceased)	Rockaway Beach Motel		2			heater	room	victims discovered deceased in room by maid; woman's body found on bed, man on floor; 84 y/o man (hotel owner's father) had been discovered deceased in the room 9 days prior - had recently suffered a heart attack and autopsy determined he died of a collapsed lung, however cause of death was to be reviewed in light of deaths of the two subsequent victims
24	IN	Portage	1/27/71	Charles F. Sproul, 35 (deceased), and Patty Lee Young, 31 (deceased)	Gary Motel		2					victims discovered deceased in room by police when motel manager could not rouse them, cause attributed to a "faulty gas pipe"
25	CO	Colorado Springs	3/21/71	Mark A. Taylor, 17 (injured), Michael R. Todd, 17 (injured)	El Rancho Motel			2	2 injured			victims were discovered unconscious in their room by a friend
26	NY	Watertown	4/18/71	Viki Jane Reed, 7 (deceased) & sister Tina Reed, 5 (injured); Mrs. Robert Barker (injured - first name and age not listed) & children Terry L. Barker, 13 (deceased), Tammy Barker, 8 (injured)	Hillside Motel		2	3	2 deceased 2 injured			police were called after a neighbor boy found adult victim lying on the floor; adult victim and her husband listed as owners of motel and were caring for a friend's children who were the additional victims in the room; investigators determined "fumes escaped from a vent pipe that had broken apart"
27	FL	Pensacola	11/24/71	Ruth Struzulla, 53 (deceased), Ervin Barker, 53 (deceased)	Floridian Motel		2			heater	room	victims discovered deceased in room by motel employee
28	SD	Ipswich	1/25/72	Judith Huber, 23 (deceased) & Bernie Jahnig, 25 (deceased)	Ipswich Motel		2			heater		victims discovered deceased in room by motel owner; CO "may have been caused by ice clogging the motel chimney, preventing venting of carbon monoxide fumes from heating units"
29	WY	Jackson	3/29/72	William Palmer, 18 (deceased), Richard Kroiss, 18 (deceased), Dennis O'Connell, 16 (injured)	Sagebrush Motel		2	1	2 deceased 1 injured	heater	room	victims discovered by motel owner after checking on them when they hadn't been seen for two days - two were deceased on beds and third was lying semi-conscious on floor; according to fire marshall in charge of investigation, "the exhaust from the gas space heater did not terminate on the exterior of the building...fumes from the heater vented into the attic above the room" "as submitted in the building plan, the whole motel unit was to have used hot water heat. At some point, however, gas space heaters were installed in the three upper rooms when it was determined that hot water would not heat the rooms sufficiently"; several weeks earlier a 21-year-old man was found unconscious in adjacent room but was thought to be associated with "an unusual strain of virus"
30	TX	Odessa	12/8/72	Randall Earl Hoover, 34 (deceased)	Sunset Motel		1			heater	room	victim found by hotel maid when she went to clean room; "open gas heater was located near the bed"
31	NV	Reno	2/6/73		Riverside Hotel			20		boiler		guests ill, casino dealers started collapsing around 10pm - fire dept called at 11:19pm and evacuated hotel; policeman found unconscious on 2nd floor while helping w/evacuation; investigators discovered "leak in boiler room, filtering unnoticed into the casino and parts of the hotel"
32	AZ	Flagstaff	2/13/73	Clarence C. Bowen, 22, (deceased), David S. Buchanan, 21 (deceased)	Skyline Motel		2			wall heater	room	victims discovered by maid when she went to clean the room; one victim found on a bed, the other on the floor
33	IL	Springfield	5/30/73		St. Nicholas Hotel			37		furnace	basement	"a fan in the hotel boiler room ceased functioning" allowing carbon monoxide to seep into banquet room which was being used for a conference; people began collapsing, originally suspecting they were suffering from food poisoning; among those injured were three policeman who were helping to evacuate the banquet room

34	KY	Corbin	5/31/73	Bertrand Devaux 22 (deceased), Richard Porch, 31 (injured), William Yule, 61 (injured) & wife, 51 (injured name not listed), John Cozine, 50 (injured), Julian Hexter, 50 (injured), Gret Witters, 25 (injured)	Howard Johnson	Y	1	6		pool heater		ambulance called at 1am for a guest who was treated and released and returned to room; other ambulances were called for other guests and at 5:45am police were called to hotel to investigate - deceased victim found in room 201 while police were evacuating hotel; CO level measured at 270 ppm in room, high levels found in other second floor rooms; "gas originated from pump room where the count was 1000ppm. From here, it filtered into the ventilating system and into the rooms"; State Board of Health report stated possible source to be an improperly vented heater used to heat the swimming pool; a guest staying in room 201 the night before was ill and taken by ambulance to the hospital but treated and released after 30 minutes - returned to the room and passed out again, had planned to stay a second night but decided to go home
35	AR	Hampton	12/8/73	Ione Schadey, 51 (deceased) & husband Clarence M. Schadey, 65 (injured)	Word's Motel		1	1		heater	room	victims discovered by hotel owner when they failed to check out
36	IL	Chicago	12/10/73	Anthony Johnson, 60, Edward Schwartz, 70, Lee Hoagland, 52, S. Davidson, 50 (all deceased)	Hartman Hotel		4	10		water heater		victims found in rooms on the second and third floors; gas furnace and water heater vented into common chimney which had become blocked and caused fumes to fill building
37	FL	Tampa	12/24/73	Yvonne Ragsdale, 16 (deceased), John D. Tyler, 25 (deceased), Robert D. Kledhaus, 24 (deceased)	E and L Motel		3		1 deceased	heater or stove	room	victims discovered deceased in room by manager, investigators estimated they had been dead for 24-48 hours
38	CA	Trinidad	2/22/74	Jeffrey Allen Camahan, 18 (deceased)	Decker's Fireside Lodge		1		1 deceased	heater	room	victim discovered deceased in room by a friend and the owner of the motel, time of death determined to be 5-6 days prior; investigation showed cause to be an improperly installed and improperly calibrated propane gas heater; prior occupants of room experienced nausea, headaches and fainting and had complained to the owner of the lodge; following a coroner's inquest the victims parents were quoted "We just wanted the public to know about this. A student comes up here and has a right to turn the heater on in his room and have it be safe. We just wanted people to know what was going on so Jeff won't have died in vain."
39	IA	Okoboji	5/22/74	Walker A. Johnston, 78 (deceased) & wife Neva Johnston, 76 (deceased)	Lakeshore Motel		2				room	victims discovered deceased in room by hotel owner who had not seen them since the prior day; room contained a gas range, gas space heater and a gas refrigerator (confirmed source of CO not listed); the couple's dog was found alive in the room but "very sick"
40	NY	South Cairo	11/22/74	William Cassell, 20, Robert Gagbeille, 27, Martha Nally, 18 (all deceased)	Greystone Motel		3		1 deceased	space heater	room	victims discovered deceased by motel owner when they failed to check out; police investigation discovered malfunction of space heater provided by motel
41	NM	Cloudcroft	1/4/75	Pauline Frazier, 26 (deceased) & husband Donald Frazier (injured) & son Rickie Frazier, 2 (injured)	Spruce Cabins		1	2	1 injured	heater	room	victims checked into motel late in the afternoon and at approximately 8pm the husband went to motel office to ask if there was a doctor because wife was ill - hotel staff advised him to take her to the emergency room; at 11:20am the following morning the manager went to room because they had not checked out, husband collapsed after answering door; wife deceased on bed; two other couples had reported being ill in the room prior to family checking in
42	TX	Tulia	2/1/75	Ethel J. Johnson, 34 (deceased) & William Wigfall, 34 (deceased)	Hillcrest Motel		2			heater	room	victims discovered deceased in room around 9:45am by maid after friends knocked on door and got no response
43	AR	Calico Rock	2/8/75	Sharon Hansard Tyrer, 21 (deceased), Annetta Reddman, 26 (injured)	White River Motel		1	1		heater		victims discovered by motel manager after housekeepers got no answer to knock at door
44	IL	Decatur	11/13/75	Debra Kidd, 22 (deceased)	Decatur Hotel		1					death originally investigated by police as an overdose, investigation re-opened when autopsy report did not agree with police investigation; subsequent investigation found a "faulty flue" - hotel had repaired the flue 3 days after the woman's death
45	CA	Santa Maria	12/27/75	Chad Kelsey, 2 (deceased) & mother Cheryl Kelsey, 19 (injured)	Western Motel		1	1	1 deceased	heater	room	child discovered deceased in hotel room, mother unconscious
46	MO	Joplin	6/8/76		Ramada Inn	Y		9		pool heater	below victims' rooms	on 6/8 ambulances called for ill victims in rooms 125 and 225; a responding police officer remembered that the two rooms had been involved in prior ambulance calls and notified the Health Dept who immediately closed the rooms and began investigation; discovered the rooms were directly above the pool heater; prior incidents of ill guests being taken to the hospital on 4/30, 5/9, 5/18, 5/19, 6/4 - all occurred between 4 and 6am; hotel manager said he was aware of several of the incidents but did not relate incidents to a common cause, some told him they thought they had food poisoning; "The investigation showed that natural gas was not burning properly in the pool heater and was giving off carbon monoxide"
47	TX	Del Rio	11/14/76	Willie Lee Isaac, 22 (deceased)	Palm Courts Motel		1					victim checked into room around 8:30pm Friday, discovered deceased on floor of room by motel owner at 5:45pm Sunday; investigating officers reported "the victim's room was filled with soot halfway up the walls"
48	GA	Jeffersonville	11/16/76	Henry Lee Navarre, 46 (deceased), James Cecil Foster, 50 (deceased)			2			heating system		victims were discovered by coworker who went to wake them for work
49	TX	Harlingen	1/31/77	Michael Wysong, 40 (injured)	Little Creek Hotel			1		heater	room	victim found by hotel maid 17 hours after checking in; transported to hospital in comatose state where doctors diagnosed CO poisoning
50	NM	Espanola	3/29/77	Peter Begay, 59 (deceased)	Livingston Hotel		1			space heater	room	victim found dead in room the morning after checking in; death caused by CO leaking from disconnected exhaust vent attached to gas space heater in room

51	FL	Miami Beach	5/24/77		Montmartre Hotel			43				guests began feeling ill on Sunday but attributed symptoms to illness, most were at hotel attending a Red Cross convention - two days later began to be investigated as an environmental cause; guests were all staying in north wing of hotel; conflicting reports in news stories as to source of CO
52	NV	Las Vegas	7/15/77	Frank Gulla, 55 (deceased)	Landmark Hotel-Casino		1	138		auxiliary power generator	basement	auxiliary power generator turned on which produced CO and carried it throughout 31 stories of hotel via air conditioning vents; auxiliary generator came on when "a leaky pipe poured two feet of water into a sub-basement, drowning out an electrical control panel and knocking out the regular power supply"; originally investigated as a refrigerant gas leak until treating physicians diagnosed CO poisoning in victims; many of the hotel guests were attending a Disabled American Veterans convention; estimated 1000 guests evacuated; injured victims included guests, hotel workers and fireman; evacuation slow due to only one elevator operating; 31-story hotel
53	KY	Lebanon	10/20/77	James Robert Smith, 42, & wife Pauline Jeffers Smith, 28 (both deceased)	Holly Hill Motel		2			gas stove	room	couple had moved one week earlier from Texas and had no permanent address - last seen 4 days earlier; fire marshall found ventilation problems in the gas heating stove in the room
54	IA	Clive	2/21/78	Jerry Tripp, 48, Helen Owens, 52, Marlene Debruyne, Mary Lance, 50, Steve Fuller, 28, Ruth Medici, 47, Kay Laverty, 35, John Llewellyn, 40 (all injured)	Sheraton	Y		8		furnace		victims were attending meeting in large first floor conference room of hotel, sick and some semi-conscious when fire dept arrived; high levels of carbon monoxide found; fire dept discovered malfunctioning furnace
55	MO	Springfield	5/28/78	Milan L., 44 (deceased) & wife Florence Lincoln, 44 (injured); Ben Yates, 88 (deceased - father of Florence Lincoln)	Ship and Anchor Motel		2	16		water heater		Police notified by hospital that two guests of motel had been admitted with symptoms of CO poisoning about 6am, hotel was then evacuated; 88 y/o man and his son-in-law found deceased; CO traveled thru ducts of hotel from broken/disconnected pipe; lawsuit subsequently filed alleging plumbing company installed water heater incorrectly, city did not inspect the unit, and owners of hotel did not make sure the water heater was working properly
56	CO	Estes Park	5/28/78	Margaret Arnot, 27 (injured), Ester Maria Montoya, 36 (injured)				2		charcoal grill	room	victims built charcoal fire in room to cook hamburgers, then put grill in bathroom to burn out overnight - CO seeped under door; hotel staff alerted when one of the victims called for help after discovering her friend unconscious
57	SD	Rapid City	7/22/78	Frank McCune (injured) & wife Judith (injured) & 5 kids ages 8-15 (all injured)	Sands Motel			7	5 injured	water heater	directly below victims' room	Victims all woke up ill in the morning feeling groggy and nauseated, Fire Dept was called to investigate; Fire Marshal said "a defective ventilator to hot water heaters combined with poor ventilation in the boiler room and ceiling penetrations cause the fumes to back up and enter the bedroom above."
58	CO	Colorado Springs	12/22/78	Lloyd Michael Breitman, 22 (deceased)	The Casa Motel		1					
59	FL	Lakeland	1/13/79	Henry Hoagland (deceased)	Cozy Court Motel		1					victim found dead in room by hotel manager after no response to multiple phone calls
60	WI	Mauston	1/16/79	Susan Gilbert, 19 (deceased), Julianne Larsen, 20 (injured), Nina Hansohn, 20 (injured)	Towne Inn Motel		1	2		space heater	room	victims found unconscious in their room by police officer looking to notify them that their car was illegally parked; "space heater's intake and exhaust were clogged with ice formations which resulted in carbon monoxide flowing into the room. This also resulted in part from the eroded condition of metal sleeves through which carbon monoxide was discharged outside. The eroded sleeves permitted the carbon monoxide to escape through the concrete block walls to the ceiling and back into the room."
61	AZ	Tucson	1/27/79	24-year-old man (deceased)	Close-Inn Motel		1			heater		Fire dept investigation found high concentration of CO in victim's room as well as multiple gas leaks in the heating system; owner quoted as saying he will have to tear hotel down because he cannot afford to make the necessary repairs to the pipes; many of motel's residents were long term tenants
62	AZ	Tucson	2/5/79		Paradise Inn Motel							gas company shut off gas service to hotel "because of numerous gas leaks" found by the fire dept during an inspection ordered by city manager following death of man at nearby hotel (see case above # 1979-0205AZ); most of the guests are long term residents
63	AZ	Tucson	2/8/79		Copper Court Motel							gas company shut off gas service to hotel "because of numerous gas leaks" found by the fire dept during an inspection ordered by city manager following death of man at nearby hotel (see case above # 1979-0205AZ)
64	TX	Fort Stockton	11/3/79	Johnny Ramos, 28 (deceased)	Gateway Lodge		1			wall heater	room	victim discovered deceased in bed by maid - she had opened the door the two previous days and saw the man's body in bed but thought he was sleeping, time of death determined to be three days prior
65	TX	Odessa	1/12/80	Joseph Earl Wynne, Jr., 28 (deceased)	Circle R Motel		1			wall heater	room	victim found by motel employee, deceased lying on floor of room at approximately 11:50am, time of death approximated at 1am
66	IL	DeKalb	11/28/80	Michael McGrath, 28 (deceased)	Rice Hotel		1			water heater	basement	CO leaked into victim's room 2 floors above basement; found 9 days after he checked in; no CO found when body was discovered but pink discoloration of hands prompted blood test which confirmed CO poisoning; "The date of death was probably Nov. 20...because (victim) checked into the hotel on the 19th, and Northern Illinois gas shut off the gas to the building Nov. 21 when hotel manager reported a gas leak"; CO "traveled through a hole around hot water pipes running from the basement to a radiator in his bedroom two floors above"
67	TX	Odessa	12/12/80	Richard Wayne Fletcher, 23 & Patti Marie Breckenridge (both deceased)	Traveler's Lodge		2			wall heater	room	victim's employer called manager of hotel when victim failed to show up to work or answer phone, manager subsequently discovered both victims dead in bed

68	TX	Brownsville	12/23/80	Patricia, 22 & husband Tom Navratil, 29, & their children, Amanda, 7 months (deceased), two other children, aged 2 and 4 (injured)	Del Mar Motel		1	4	1 deceased 2 injured	stove	room	friend of family and hotel maid climbed in thru window when no response at door, discovered entire family unconscious; victims reported turning on the burners on the gas stove to keep warm when room heater did not provide enough heat
69	MA	Newton	1/22/81		Holiday Inn	Y		24		water heater		"Boston Gas Co. officials suspect the poisonous fumes escaped from an improperly installed flue on a hot water heater." approximately 100 people were evacuated from the affected meeting room
70	AL	Montgomery	3/5/81	Alonzo Bradford, 1 (deceased) & mother Mary Bradford, 18 (injured), Robert Lee Moore, 34 (injured - companion of Mary Bradford)	St. Francis Hotel Courts		1	2	1 deceased 1 injured	heater	room	Family found by hotel maid; little boy found on floor, his mother on bed, man on bathroom floor
71	OH	Brook Park	6/18/81	Robert Weaver, 29 (deceased)	Sheraton Airport Hotel	Y	1			pool heater		victim discovered by maid, "the heater for the swimming pool, the previous year when they closed it up for the winter, someone put a piece of plywood there, and all the fumes came up into his room"
72	FL	Bradenton	7/22/81	Ronnie Cornelius, 33 (injured) & wife Connie Cornelius, 28 (injured) & sons Eddie, 3 (injured) and Daniel, 9 (injured), & niece Celeste Jokins, 11 (injured)	Holiday Inn	Y		5	3 injured	charcoal grill	room	Family found unconscious in room by police who came to hotel after hotel clerk reported room was paid for using a stolen check connected to a purse-snatching incident a week earlier; father found sprawled on bed and rest of family on floor of room; parents were later charged with lighting fire in the grill in an attempt to kill themselves and the children.
73	SC	Orangeburg	1/1/82	Willie Harvey Brown III, 22 (deceased)	Carolina Wren Motel		1					Victim found deceased in room
74	TX	Odessa	5/30/82	Bernice Connery, 27 (deceased), Wayne Howard, 22 (injured), Danny Helms, 16 (injured), Ona Cargal, 16 (injured); also injured (no ages listed) were Leaetta Lawson & child Jarret Vaden, Sandra Thompson, Shirley Miller, Jerry Yoesting, Randal Crabtree (child), Joey Carlson, Billy Brannum (child), Gigi Dougan, Danny Helms (child)	Imperial Motel		1	13	6 injured	water heater		Victims Connery and Howard treated for what was thought to be food poisoning in emergency room on May 29; police responded to call on May 30 and found Connery dead and Howard unconscious - three hours later they received another call that three more guests were found unconscious and subsequently found 11 more victims in various rooms; CO came from "a hot water heater vent pipe placed against a grating and not extended to the outside of the building"; Fire Marshal reported that two water heaters were inspected the prior December and one of the two was listed as a fire hazard due to no venting but inspector did not notice that the other heater was vented improperly; when the inspector returned on May 26 owners reported the heater with no ventilation was not in use - however, the heater with the faulty ventilation continued to operate due to the oversight; during investigation following the death city officials discovered the heater with the faulty ventilation was installed without a permit and had never been inspected; following incident, fire inspectors made plan to check every motel in Odessa
75	FL	Lakeland	12/21/82	Freddie S. Jones, 21 (deceased), Patricia Cromartie, 25 (injured)	Cozy Corner Motel		1	1		heater	room	Victims discovered in room by motel manager, man was on bed and woman on floor; investigators found vent pipe disconnected from heater and theorized it had been that way for some time as there was staining on the curtain behind it
76	IA	Tipton	12/30/82	Lanny Machovec, 34 (deceased), Bonnie Nielsen (injured)	Best Western Liberty Inn Motel	Y	1	1		fumes from smoldering insulation	adjoining room	Injured victim was in room below deceased victim's room; carbon monoxide came from smoldering insulation in ceiling of an adjoining room - resulting from short in heating system caused by leaky roof; CO entered victim's room via "holes left for installation of cables and wires in the fire wall" between his room and the adjoining room
77	TX	Del Rio	12/30/83	Orlando Gonzalez, 23 (deceased), Lydia Patino Cardona, 35 (deceased)	Palm Courts Motel		2			space heater	room	victims discovered deceased in room by motel manager; fire marshal found illegal space heater in victim's room and another room; investigator said "a few years back a man died at the motel with similar surrounding circumstances"
78	PA	Edinboro	1/30/84		Holiday Inn	Y		27	25 injured			most of the victims were high school students attending a DECA convention; CO was found in rooms in a second floor wing of hotel; inspector with gas company theorized there was either a hole in the ventilation system or "the system wasn't ventilating high enough in the air"
79	CA	San Jose	2/3/84	Bae Seugn Hoon, 37 (deceased), Chea Song Pak, 37 (injured)	Wagon Wheel Motel		1			heater	room	victims discovered when they failed to check out of room; authorities thought they were suffering from food poisoning - cause/reason for death not discovered until another fatality in same room two days later - see case #1984-0205CA listed below
80	CA	San Jose	2/5/84	Dave Swafford, 30 (deceased)	Wagon Wheel Motel		1			heater	room	Victim discovered deceased in same room as another guest found two days prior - see case #1984-0203CA above; CO measured at 125ppm in room; another room in hotel also found to have faulty heater
81	AZ	Tucson	2/10/84	Debora Deluca, 26 (deceased), & daughter Jolene Deluca, 4 (injured), Bernard Franklin Winnie, 46 (injured)	Pine Wood Motel		1	2	1 injured	heater	room	friends alerted hotel staff when the three failed to answer door; found mother deceased and her child and boyfriend semi-conscious; gas company found CO leaking from improperly vented gas heater
82	CA	Hollywood	7/12/84		Ramada Inn	Y		34				paramedics responded to hotel for sick person, called back for a second sick person and noticed a gas odor so called for additional units; hotel evacuated; CO dispersed throughout hotel thru air conditioning vents; CO levels at 200ppm
83	NM	Albuquerque	12/22/84	Don T. Wilson, 31 (deceased)	Nob Hill Motel		1			heater		subsequent lawsuit filed on behalf of victim alleged that boiler service owner failed to properly install and provide ventilation for a space heater as well as failed to inform the motel that he was not qualified nor licensed to install the heater

84	NC	Winston-Salem	1/16/85		Ramada Inn	Y		30				motel employees and some guests began losing consciousness in area around the kitchen around 7:30pm, hotel air checked for CO approximately 90 minutes later when doctors discovered high levels of CO in victims; injured included 13 firefighters and police who rushed in to help; guests were evacuated to an emergency shelter; a private engineering firm hired by the hotel "attempted to find a source for the carbon monoxide, which was found in heavy concentrations in some of the 30 people taken to hospitals. They theorized that carbon monoxide produced by the hotel furnace or by traffic on US 52 and nearby businesses became trapped near the ground and in the hotel lobby because of temperature differences between the ground and the layers of air above it. The carbon monoxide could then have been channeled into the hotel's ventilation system."		
85	MA	Boston	2/22/85		Howard Johnson 57 Park Plaza Hotel	Y		55		water heater	6th floor	"malfunction in the boiler allowed fumes to seep into sixth floor conference rooms"; 23-story hotel; hotel evacuated after guests began passing out from fumes; complaints from guests and meeting attendees that there was no evacuation plan and they were not informed of the reason for the evacuation, "switchboard operators were denying to callers seeking information that any problem existed or that an evacuation occurred"; two separate conventions in process - approx 350 people attending a lawyers convention, one of the attorneys said the group had been discussing insurance coverage dealing with toxic materials		
86	NC	Statesville	3/12/85	Emma Mae Lindsay (deceased) & son, James Lindsay III (injured)	US 21 Motel			1	1			heater	victims discovered by motel owner; referenced heater was "last manufactured in December of 1961"	
87	NV	Las Vegas	7/5/85	Booker Anderson, 45 (deceased), Robert Shoemaker (deceased)	Crest Motel			2	18			water heater	1st floor utility room	CO spread to one wing of the hotel; deceased victims were found in adjoining rooms near the water heater around 9:30am; some of the other victims were found unconscious; fire chief said "it appeared that the carbon monoxide had been building up for three or four days"; "City building inspectors said the water heater, which was installed without a permit since the motel was last inspected in April 1984, was larger than the unit it replaced and because of that was not properly vented"; "A couple staying at the the motel said they were moved from room 137, where one of the dead people was found, two days earlier after becoming sick"; "The downtown motel rents rooms by both the day and week and houses some downtown hotel workers. Many of those staying at the motel were elderly tourists."
88	TX	Amarillo	10/5/85	Cornelius Hatten Jr., 24 (deceased), Tommy P. Barker (deceased)	The Sands Motel			2	12			generator	victims discovered by their employer around 8:30am when they failed to show up for work; employees said generator was being used after utility company cut off electricity to the motel due to unpaid bills; CO fumes from generator spread to other rooms; city inspectors condemned and closed motel after deaths	
89	KS	Lenexa	12/6/85					11					hotel evacuated after CO fumes spread to north wing of motel	
90	VA	Troutville	1/14/86	Susette Passionino-5 months pregnant, 21 (deceased) & fiance Anthony Storti, 31 (injured), Arthur B. LeBlanc, 46 (deceased)	Best Western Coachman Inn	Y		2	8			boiler	rescue workers dispatched to motel at 7pm and again at 3am to treat guests complaining of breathing difficulties, did not immediately suspect CO; earlier around 5:30pm a hotel employee called boiler company because boiler was leaking (boiler company reported hotel told them repair could wait till morning); one of the injured guests remembered going to bed around 12:30am not feeling well and then woke up in an ambulance sometime later that morning; bodies of deceased victims were found at 4:30am by a janitor who saw water leaking from ceiling below deceased woman's room-she was found submerged in bathtub with water still running and her fiance was unconscious on hotel room floor; male decedent was found in adjacent room; CO cause determined to be due to high winds backdrafting fumes into hotel rooms due to an "obsolete" heating system that was 26 years old and did not meet current building code, inadequate chimney height and no exhaust fan	
91	NJ	Hackensack	1/19/86	Jesse Davenport, 54 (deceased), Alvon Harrison, 23 (deceased)	Airport Motel			2				heater	victims found deceased in same room, deaths originally ruled as a heart attack and a cocaine overdose, a lawsuit filed two years later charged that their deaths were a result of a faulty heater based on the state medical examiner's toxicology report which showed that both victims "had many times the normal level of carbon monoxide in their blood at the time of death...enough to kill both of them"; after reading the news story about the lawsuit, the hotel's former maintenance man came forward and said the hotel owner had ordered him to repair the gas heater the day after the deaths	
92	NV	Wendover	8/19/86		The Stateline Hotel and Casino			30				boiler	boiler had a bad seal and was directly under air conditioning duct causing CO to leak into air conditioning system; hotel evacuated; CO levels measured at 200ppm; victims reportedly included two pregnant women	
93	TN	Nashville	11/23/86	John, 61 (deceased) & wife Joan, 67 (injured) Spaulding, Earl Shellum, 64 (injured), John, 63 (injured) & wife Frances, 65 (injured) Gleaves	Opryland Ramada Inn	Y		1	5			pool heater	adjacent to victims' rooms	victims discovered in their room around 12noon when man failed to show up at a convention meeting, he was deceased on floor and his wife sprawled on bed sick and disoriented; room to room search found several other disoriented guests who were taken to hospital; hotel not evacuated till 10pm when autopsy showed man died of CO poisoning; illness of other guests originally suspected as food poisoning; hotel was 18 months old and "the 308-room hotel was allowed to open with a temporary use and occupancy permit"; Health Dept Director said, "the design of the ventilation system for the swimming pool and the equipment room created a situation that caused carbon monoxide to build up in the pool equipment room and to filter into other rooms in the hotel...in addition, a gas water heater may have been defective"; this case was the subject of a JAMA article published in 1989, "Fatal Carbon Monoxide Poisoning at a Motel"

94	MS	McComb	12/28/86	Darrell D. Jones, 49 (deceased)	Economy Motel			1			heater	room	victim discovered deceased in room by motel staff; high levels of CO found in room; heater was found to have a defective vent; on autopsy, victim appeared to have died of a heart attack but due to CO found in room toxicology was ordered and 3 1/2 months later confirmed he had died of CO poisoning with a blood CO level of 43%
95	HI	Wilea (Maui)	1/22/88	Constancio Alviedo, 61 (deceased)	Maui Intercontinental Wailea Hotel			1	9		generator	basement	deceased victim was employee of hotel, discovered unconscious near trash compactor in basement - ambulance responded to "an apparent heart attack"; rescuers discovered two additional victims lying near first victim - three other employees collapsed in nearby employee locker room "prompting an evacuation of the area that includes a service tunnel, loading dock and the compactor room"; multiple first responders ill at scene - 4 required treatment at hospital; 20 minutes prior hotel had been testing the emergency generator - exhaust pipe was vented into the trash compactor room; according to police, "generator was run from about 1pm to 1:35pm...Alviedo was found unconscious at 1:52pm...exhaust vent is located near the doorway of the trash compactor room"
96	AR	Mountain View	1/24/88	Mary Umpleby, 36 (injured) & granddaughter Chastity Wilson, 2 (deceased), & son Garrett Long, 14 (deceased) & friend James Robin, 25 (injured)	Mountain View Motel			2		2 deceased	heater		Medical Examiner determined cause of death to be CO poisoning by gas heater in the room; Director of LP Gas Board said an inspector "tested the heater twice...did not find it to be operating improperly"; a state police investigator considered the case closed and was "satisfied there was no foul play...tests by an inspector for the state LP Gas Board don't mean there was nothing wrong with the heater at the time of the deaths"
97	FL	Miami Beach	4/6/88		Fontana Hotel				42		boiler		CO spread thru air conditioning system; rescuers called to hotel for guest who had passed out and found many others complaining of CO symptoms; CO levels measured at "300 times what is considered normal"
98	CA	Hayward	11/6/88	Michael Horvath, 33 (deceased) & fiancée Gloria Burroughs, 34 (deceased)				2			water heater		
99	MT	Saltese	11/23/88	Bruce, 28 & Colleen, 29 MacMaster (both deceased)	4-D's Motel			2			heater	room	heater found to be improperly vented; "heater should have been vented up a chimney instead of horizontally out a wall"; heater had been installed by hotel owners without a permit; investigation found that other people who had stayed in the same room prior to incident had also been ill
##	AZ	Mesa	2/8/89	Family of 4: Al Stjemberg 26, Sandra Magness 25, & daughters Amanda 18 months and Jessica, 8 months (all deceased)	Florian Motel			4		2 deceased	1950's-era gas heater		employee found bodies of family along with their dead German shepherd; fire dept found room's heater not connected to a chimney; motel built in 1933
##	CT	Windsor Locks	10/31/89	Sharon Matos, 33 (injured)	Motel 6	Y		1			dryers	laundry room	hotel opened 9 weeks earlier; victim was employee of motel, began feeling dizzy and collapsed in laundry room; on 10/25 two other workers were taken to the hospital after becoming ill in the same room - hotel owners called gas company after incident but gas company did not detect CO or other gases; one of the two workers went to the hospital again two days later and was found to have elevated CO levels in blood; OSHA inspector responded after employees filed complaint; on 11/1 town building inspector detected CO in laundry room and engineers determined "that a down draft caused by low-flying airplanes was probably forcing exhaust containing the poisonous gas back down the flue into the room"; hotel subsequently installed fans in the exhaust pipes of the two dryers in the laundry room
##	SD	Rapid City	11/18/89	Steven Beach, 38 (deceased)	Dakota Motel			1			furnace		victims discovered deceased in rooms 122 and 120 a day apart, CO not suspected with first victim because according to coroner he "didn't show the classic signs" of CO poisoning and death was ruled as natural; investigation ordered when second man was discovered deceased the following day; a woman in room 121 had complained of nausea and "an odd odor" in her room; investigation showed CO came from a single gas furnace that supplied heat to rooms 121-126; motel was 30 years old and had never been inspected; CO exposure thought to be a result of "back drafting" - motel manager re-lit pilot light when victim Russell complained of being cold but neglected to replace the front panels of the furnace - "exhaust gases could have been pulled from the system back into the cold air return on the bottom of the furnace, poisoning the air in the rooms"
##	SD	Rapid City	11/19/89	Eugene Thomas Russell, 25 (deceased)	Dakota Motel			1			furnace		and death was ruled as natural; investigation ordered when second man was discovered deceased the following day; a woman in room 121 had complained of nausea and "an odd odor" in her room; investigation showed CO came from a single gas furnace that supplied heat to rooms 121-126; motel was 30 years old and had never been inspected; CO exposure thought to be a result of "back drafting" - motel manager re-lit pilot light when victim Russell complained of being cold but neglected to replace the front panels of the furnace - "exhaust gases could have been pulled from the system back into the cold air return on the bottom of the furnace, poisoning the air in the rooms"
##	OH	Fairlawn	1/4/90		Days Inn	Y							firefighters called to motel when fumes set off an alarm - natural gas was shut off and hotel closed until source of CO could be determined
##	IN	Evansville	1/25/90		Radisson Inn	Y			14				group of conventioners began feeling ill; county health officials could find no problem; highest level of co found in patients was 32%; victims all in wing of 16 rooms on 1st floor "where inside windows overlook an enclosed area with a swimming pool"
##	KY	Jefferson County	2/3/90		Brownsboro Inn				34		boiler		two of three wings of hotel evacuated after guests awakened feeling ill around 7am; 34 guests transported to nine hospitals; investigation found broken boiler not properly reassembled by the repair crew that had worked on it earlier in the week - stack was loose as well as a 3/4" crack in the front of the boiler; stack was disassembled by workers who took the boiler apart to repair an unrelated problem
##	CA	Fallbrook	4/7/90		La Estancia Inn			20		3 injured	propane-powered cogeneration unit	basement	firefighters called to hotel around midnight for a "sick hotel guest", arrived and treated 5 guests who thought they had food poisoning; hotel manager called for help at 6am; 7 guests transported to hospital - 2 flown by helicopter to UCSD Medical Center in San Diego for treatment; 8 of the victims treated in hyperbaric chamber; 12 firefighters, 1 police officer and other guests were hospitalized; "the cogenerator's exhaust system failed and carbon monoxide reached the hotel rooms above"
##	MI	Watersmeet	6/16/90	David & Debra Pilipauskas, William Pilipauskas, Sandra & Matthew Rusek (all injured)	Arrow Lodge Resort				5				

# #	MN	Spicer	7/1/90		Cazador Inn				120		pool heater		EMS called around 8am for a guest who was sick, when they arrived discovered multiple people ill, some unconscious; firefighters did "room by room sweep"; fire depts and ambulance crews from five neighboring towns were called in to help, local hospital called in 50-60 additional personnel; hotel employees had been ill with headaches and dizziness in days prior; injured included guests, firefighters and employees; subsequent investigation found swallows' nests clogging pool heater vent
# #	MI	Lansing	9/18/90	Michael Daugherty, 20 (injured), Daniel Crow (injured), Jarrett Pearson, 17 (injured)	Ramada Inn	Y		3	1 injured	pool heater	room next to pool		motel workers found two of the victims unconscious in the pool area; faulty pool heater vent stack leaked carbon monoxide through louvers in a door adjoining the pool
# #	CO	Silverthorne	?/?/1990		Silverthorne Comfort Inn	Y				pool heater			swimming pool boiler vent system failure; hospitalization of hotel guests
# #	CO	Pueblo	?/?/1990										<i>*listed on Dr. Weaver's spreadsheet, source listed as Colorado Springs Gazette - unable to find further information online</i>
# #	CA	San Diego	1/1/91	Cory Korosi (deceased), 21, Henry Kim Wong (injured), 20	Mission Valley Inn			1	1	wall heater	room		victims were discovered about 2:30pm after friends could not get answer at door, contacted hotel security who broke a window to gain entry to room; building inspector said heater in room appeared to be original to the building which was constructed in early 1960s; venting system also clogged with soot so natural gas heater was working poorly; following the incident, the Building Inspection Dept found violations in 83 of the 190 rooms inspected, including malfunctioning heaters in 36 of the rooms; victims were members of the Southern Alberta Institute of Technology's men's volleyball team in town to play four exhibition games; Chairman of the city's Public Services and Safety Committee, "It's tragically been brought to our attention. I'd like to see how the Hotel-Motel Assn. could assure the city and public that there are hotels and motels that are not only beautiful, but safe."; city building inspectors and the San Diego County Hotel & Motel Association reported they would jointly send out letters to all county hotels and motels to remind owners and operators of "the obligation to properly maintain all mechanical equipment"
# #	WI	Stevens Point	11/8/91		Comfort Suites	Y		72		pool heater			victims reported feeling nauseous and dizzy after spending time in the pool area; CO leaked from improperly installed ventilation system, CO levels at 450ppm
# #	FL	West Palm Beach	3/21/92	Todd Girouard, 21, Kimberly Newton, 21, Kirsten Madden, 20 (all injured)	Holiday Inn - Airport	Y		4		boiler	second floor (below victims' room)		victims discovered around 3pm by hotel staff; "It is not clear how long the three were exposed to fumes from the hotel's gas-fired boiler...by the time the housekeeper discovered them and called for help, the gas had spread to three floors"; hotel employee collapsed while inspecting the boiler room; CO levels were measured at 210ppm on the second floor; a state fire investigator "determined that leaks and closed vents in a hotel boiler system produced high levels of carbon monoxide...maintenance workers knew about leaks and tried to seal pipes with duct tape"; "Gas apparently leaked into a third-floor room...through an exhaust duct connected to four boilers on the floor below. Two pipes carrying cold water to air conditioners in the students' room ran through the duct. Leaks around the pipes allowed the gas to seep through"; "Vents allowing air into the boilers were closed, which caused the
# #	TN	Knoxville	5/14/92		Family Inn			10		water heater			CO found in 24 rooms; improperly installed laundry room fan cause CO from water heater to disperse into rooms;
# #	CA	Indian Wells	12/12/92		Stouffer Esmeralda Resort			8		heater			multiple calls to 911 by guests feeling ill beginning at 6:21am; fire dept evacuated hotel and discovered malfunctioning heater
# #	NC	Durham	?/?/1992		Cricket Inn								<i>*listed on Dr. Weaver's spreadsheet, source listed as News & Observer - unable to find further information online</i>
# #	MA	Boston	2/7/93		Back Bay Hilton	Y		6		boiler	basement		problem identified when "hotel maintenance workers were in the basement...trying to correct a water temperature problem after a guest's complaint when they began to complain of nausea and headaches. Fire officials were then called in and discovered the build-up of carbon monoxide"; 25-story hotel evacuated; victims hospitalized included hotel employees who tried to fix leak; "officials said the bitterly cold weather probably caused the boiler to back up with carbon monoxide"
# #	TN	Nashville	3/24/93		Doubletree Hotel	Y		16		boiler			outside air ducts were blocked and employees had propped open doors to boiler room, large ventilation fans had been turned on in the adjoining room which created a vacuum pulling the boiler exhaust back down the pipe and into the hotel; "system is similar to the systems in most large buildings in Nashville, but some have an added safety device. For the last five years, boiler systems have been built with sensors which automatically shut down the system if they detect carbon monoxide. The Doubletree, built in 1979, does not have such a system."
# #	TX	Arlington	3/27/93	Edward Bumer Anderson, 54 (deceased)	Days Inn	Y	1	40	1 injured	water heater	room next to deceased victim's room		Fire Dept called to hotel multiple times beginning at 3:40am by guests ill with severe headaches and stomach upset, eventually discovered high levels of CO throughout hotel and evacuated rooms via door to door notification of guests; Fire Dept spokesman reported CO poisoning was not originally suspected because patient "did not have the rosy complexion that often accompanies the ailment"; CO levels measured at 500ppm; deceased victim unable to evacuate and was discovered deceased on bathroom floor of his room by city health inspector 5 hours later (subsequent formal inquiry/report regarding evacuation procedure was completed by Fire Dept and reviewed by city officials); guests not informed of why they were being told to evacuate; CO leaked from "ruptured" water heater vent pipe that had been patched with duct tape; new water heater installed without city permit

# #	IN	Evansville	9/7/93		Executive Inn			2		carpet cleaning equipment		hotel evacuated; worker whose office was located in basement was hospitalized; "fumes escaped while a (carpet cleaning crew) operated steam-cleaning equipment in a first-floor ballroom...machinery was powered by a gasoline engine on a truck parked in a hotel loading bay, and exhaust fumes backed up after a hose connecting the cleaning equipment and the truck became obstructed"	
# #	UT	Salt Lake City	12/10/93	Samual Doan, 83, and Madalyn Jereb, 53 (both deceased)	Holiday Motel			2		heater	room	police called to hotel after receiving reports of "an usual odor" and discovered victims, appeared to have been dead for some time, checked in six days prior; man found on floor near bed and woman lying back in chair	
# #	AZ	Mesa	1/9/94	Geraldine Tate, 62 & Cecil Constable, 77 (both injured)	Starlight Motel			2		heater	room	couple woke up with headaches and breathing problems and called 911; fire dept detected "potentially lethal levels of carbon monoxide" in the room	
# #	IA	Mason City	2/26/94	Donald Easton, 68 and Michiko Walton, 53 (both deceased)	Colonial Inn			2		furnace		victims were owners of the motel and lived onsite, found in living quarters adjacent to motel office; man found on bed, woman on floor; no guests staying at motel during evening of incident; authorities found no defects found in gas furnace but theorized high winds and snow may have caused downdraft that trapped CO in room	
# #	IL	North Aurora	10/20/94	Joanne Meister, 42 (injured)	Super 8	Y		10		pool heater		motel guests complained of feeling ill, taken by ambulance to hospital where diagnosed with CO poisoning, hospital alerted fire dept who then evacuated motel; CO levels reached 400 ppm in some areas of hotel; firefighters obtained list of occupied rooms from hotel and evacuated all occupied rooms - list did not include Ms. Meister, she was found unconscious two hours later when firefighters performed room by room search; subsequent investigation determined "hotel maintenance workers walled off the boiler that heated the pool after fire inspectors cited the motel for having papers in the same room as the boiler. That caused the boiler to create carbon monoxide that seeped into the motel's ventilation system and into the bathroom vents on the same level as the boiler"	
# #	MD	Ocean City	11/26/94		Princess Royale Hotel			24		furnace	basement	around 6:30am a family of five at hotel called 911 thinking they had food poisoning, later other callers reported similar symptoms; emergency responders became ill as well; malfunction of one of three furnaces in basement, CO leaked into three rooms on second floor	
# #	TX	Irving	?/?/1994		Red Roof Inn	Y						<i>*listed on Dr. Weaver's spreadsheet, source listed as Fort Worth Star Telegram - unable to find further information online</i>	
# #	FL	Tampa	2/2/95	Ronald Blank, 51 (deceased), James Harold Ream, 37 (injured), Steve Kinder, 51 (injured)	Embassy Suites Hotel	Y	1	2		water heater	two floors below victims' room	Blank's friends asked hotel to check room when he did not show up, maid found him deceased and Ream unconscious in their room (317 - located on first floor of guest rooms); Kinder was in 417 directly above them and was found conscious but ill; fire dept measured CO levels of 250ppm in 317 and levels exceeding 400ppm in the boiler room where the water heater was located; leak was traced to a "small auxiliary water heater"; hotel manager reported they would install CO detectors immediately; several guests reported that they were not notified of the problem until "hours" after men were found and that only nearby rooms were evacuated; Blank and Ream both reportedly thought they were ill with the flu	
# #	CA	Mammoth Lakes	2/10/95	Walt Weber, 42 (deceased) & wife Molly Weber, 36 (injured)	North Village Inn		1	1		heater	room	victims checked in Friday evening, found unresponsive in room at 12:30pm on Sunday; "carbon monoxide was produced by a gravity-vented wall heater...manufactured in the late 1950s...the heater was allowed to operate with the heat exchanger detached from the draft diverter, causing the flue products to spill into the living area"; Molly's siser, Lyrysa Smith, published book about her recovery in 2013 "A Normal Life"	
# #	VA	Virginia Beach	8/7/95	Larry Corbett, 25 (injured)	Murphy's Emerald Isle Motel			44		furnace		"dangerous levels" of CO were found on the motel's top three floors	
# #	CA	Sacramento	12/9/95	Ferrel Bradbury, 79 (deceased)	Forty-Niner Motor Lodge		1	1		heater	room	man found dead in room; coroner investigation showed CO poisoning resulted from a "dirty heater"	
# #	CO	Fort Collins	?/?/1995		Holiday Inn	Y						<i>*listed on Dr. Weaver's spreadsheet, source listed as Rocky Mountain News - unable to find further information online</i>	
# #	IL		?/?/1996		Budgetel Inn							<i>*listed on Dr. Weaver's spreadsheet, source listed as Lexis Nexis Legal - unable to find further information online</i>	
# #	KY	Danville	1/28/97	Julieanne Boise, 30, Charles Baughman, 47, James Filipiak, 46, Chad Cooper, 26, Linda Schultz, 46, & daughter Jennifer Schultz, 17 (all injured)	Holiday Inn Express	Y		6	1 injured	pool heater		CO escaped up thru a broken exhaust pipe for the pool heater and thru a ceiling opening around a pipe, then to exhaust vents of the hotel rooms' bathrooms, discovered when a frequent guest of the hotel did not respond to a wake up call and was found unconscious in room, two other guests came to front desk complaining of feeling faint; CO levels measured at 70ppm in lobby, "additional readings in hotel rooms were as high as 600ppm and above"	
# #	CA	Daly City	2/20/97	Clarence D. Brown, 46, Mildred K. Allen, 41, & daughter Talisha Brown, 2 (all deceased)	Alpine Motel		3		1 deceased	heater	room	victims discovered deceased in room by maid - woman and child on bed, man on floor; investigators reported that vent for room heater was blocked but unable to determine for how long; heater removed for further testing; motel had minor health and safety violations - "inspectors check to see if heaters produce heat, but do not check the internal systems"; guests who stayed in room three days earlier had headaches and "found it difficult to wake up" while staying there	
# #	MT	Somers	3/15/97		Ramada Inn	Y		8		pool heater	room adjacent to hot tub	victims were in hot tub and began having headaches, nausea and weakness, one lost consciousness in hot tub and another went to call 911; CO found leaking from rusted out section of exhaust pipe, "fans designed to ventilate and expel humidity from the pool room then pulled in the deadly gas through the vents in the door separating the hot tub area from the boiler room"	

# #	IA	Ottumwa	8/16/97		Parkview Plaza				4				4 members of family staying on top floor went to hospital complaining of headaches and dizziness; hospital alerted police and fire who found high CO levels on every floor and evacuated hotel	
# #	TX	Arlington	?/?/1997		Arlington Hilton	Y							*listed on Dr. Weaver's spreadsheet, source listed as Fort Worth Star Telegram - unable to find further information online	
# #	IL	Peoria	?/?/1997		Mark Twain								*listed on Dr. Weaver's spreadsheet, source listed as Journal Star - unable to find further information online	
# #	FL	Fort Walton Beach	8/4/98		Marina Bay Resort				20		boiler		family of four went to hospital complaining of headaches and nausea, doctors diagnosed CO poisoning and called fire dept; fire dept found other guests ill and evacuated hotel	
# #	FL	Clearwater	9/9/98	Kenneth Vaughan, 34 (injured) & wife Cheryl Vaughn, 32 (injured)	Quality Inn Beach Resort	Y			3		water heater	first floor	victims awoke feeling ill in the afternoon and called 911 thinking they had food poisoning but were disoriented; responders quickly determined they were suffering from CO poisoning and pulled fire alarm to evacuate hotel; other victim was a paramedic; Fire Chief reported "a clogged vent from a natural gas water heater on the first floor caused the problem. CO from the vent seeped out at the roof level and leaked into the Vaughans' room on the fifth floor....CO was also found in other areas of the hotel but highest level was in the area of the Vaughans' room:" CO levels measured at 180-200ppm	
# #	VA	Virginia Beach	12/16/98		Murphy's Emerald Isle Motel				2		boiler		prior incident at this hotel 8/7/1995 (see case above); authorities were called when "several boxes of carbon monoxide detectors in storage in the boiler room went off due to a faulty flue pipe in the boiler"; "...not clear whether the same furnace caused the problem in 1995"	
# #	IA	Mason City	1/11/99	Bruce & Bobbi Hollowell & their 2 children; Duane & Marjorie Dannen & their 3 children; Echo & Steve Cash; Terry & Jill Black & their 2 children; Debra Lugar & her 2 children (all injured)	Comfort Inn	Y			19	9 injured	pool heater		fire dept notified around 9pm when two children became ill and were diagnosed with CO poisoning at the hospital; multiple families ill with headaches and vomiting; fire dept evacuated hotel, measured CO levels at 668ppm in pool area; victim described event, "it was chaos"; CO found to be leaking from "faulty exhaust system"	
# #	NY	Manhattan	7/3/99		Crowne Plaza Hotel	Y			11	1 injured	sandblasting machine	basement	CO spread to parking garage and lobby; 3 construction workers and an 11 y/o girl taken to hospital, 7 others treated at scene; sandblasting machine was being used to remove paint in basement of hotel	
# #	MA	Yarmouth	10/6/99		West Yarmouth Inn				24	11 injured	clogged heating unit		CO leak discovered after family of 3 went to ER complaining of food poisoning around 8am - doctors diagnosed CO poisoning and alerted fire dept who found 8 other residents in "various states of distress, including an unconscious 3 year old"; injured victims included two pregnant women; CO found in 10 of hotel's 34 rooms; higher levels of poisoning found in those who had turned on heat in their room; incident led to discovery of multiple families (including 44 school-age children) living at that hotel and other hotels in the area because they could not afford to rent apartments	
# #	IN	Merrillville	8/11/00	Injured included: guests Joseph Topor, 48 & wife Amy, 27, hotel employees Roshanda Hinton, Nicola Sinclair, 34, Barbara Grubbs, 58	Holiday Inn Express	Y			24	15 injured	pool heater		children (ages 9-18) at a pool party became ill - two transported to hospital after collapsing about 9pm - but symptoms not connected to CO poisoning until hotel staff also became ill several hours later - front desk employee collapsed while working; first responders arrived and evacuated hotel via the fire alarm at 7:30am; CO readings in pool were over 1000 ppm ; "When asked if the Holiday Inn would be installing carbon monoxide alarms (manager) said he would leave that to the experts, 'Whatever those experts tell us is the absolute right thing to do, this Holiday Inn is committed to doing the right thing...according to Holiday Inn, the state and local municipalities, we have everything required by code. Carbon monoxide detectors are not required"; subsequent lawsuit complaint stated "purpose of our request for punitive damages is to compel this chain, and every other hotel operator in Indiana, to install carbon monoxide detectors in all hotels before deaths or injuries occur"	
# #	NY	Amsterdam	10/11/00	Ursula & Richard Vasiack; Pentz family: Calvin & Marietta and their children Calvin Jr., 6, and Kristina, 10 (all injured)	Amsterdam Best Western	Y			12	2 injured	pool heater		mother of family affected was awakened at 3am by the sound of a passing train and realized she was "violently sick", she woke up family members who were all feeling same effects - called front desk who called 911; firefighters evacuated hotel and found Vasiack couple - she was unconscious and he was semi-conscious; "Health Department investigators concluded that the heater had been improperly maintained, causing the carbon monoxide leak," - hotel fined \$500; CO detection system was installed following incident	
# #	CO	Denver	11/1/00	Eric Potteiger, 30 (injured), Amy Bronn (injured)	La Quinta Inn	Y			6		pool heater	ground floor	housekeepers found unconscious guest on 2nd floor at 11:40am, firefighters responded and while there, housekeepers found another guest found unconscious on 3rd floor; firefighters did room by room search for more victims; around 4:30pm the cause of the CO was determined to be pool heater's exhaust system not operating properly; "A police report attached to the federal lawsuit quotes a hotel manager as saying that, while rescue authorities were responding, La Quinta's legal department told employees to deny any knowledge of any sick or ill people"	
# #	WI	Eau Claire	11/5/00		Days Inn	Y					dryer	laundry room	CO detector activated around 7pm, motel evacuated for approx 30 min; source disconnected	
# #	IA	Davenport	12/15/00		Days Inn	Y			4		furnace	near swimming pool	Fire Dept called to hotel around 8:30pm, detected "high levels" of CO in pool area and "entranceway"; 4 people taken to hospital for treatment	
# #	TX	Georgetown	12/28/00		Holiday Inn	Y			4		water heater		around 11:20 am, a victim called 911 after becoming ill with nausea and dizziness; CO leak detected by first responders who evacuated hotel	
# #	IL	Effingham	2/16/01		Lincoln Lodge Motel				10		furnace		2 guests transported to hospital around 3:30am, doctors diagnosed CO poisoning and notified Fire Dept who returned to hotel at 4:41am and discovered eight additional victims who were taken to hospital; high levels of CO found in 5 rooms	

# #	TX	Odessa	3/27/01		Best Western Garden Oasis	Y		1				hotel employee ill and went to hospital; hospital diagnosed CO poisoning and notified the fire dept; "fatal levels" of CO found in areas of second floor, biggest accumulation was in a conference room; Asst Fire Chief, "it's unusual to find this much gas and only one person sick"		
# #	WY	Teton Village	8/2/01	David, 51 (deceased) & Joette Williams, 50 (injured)	Snake River Lodge & Spa			1	1		boiler	below victims' room	friends discovered both victims unconscious in their room in the morning, man died later same day at the hospital, woman flown to Pocatello, ID for treatment in hyperbaric chamber; victims had been taken to emergency room from hotel the day before with symptoms including nausea and diarrhea, treated for dehydration and then discharged, returned to hotel room; subsequent investigation found room CO levels at 770 ppm , "gases from the first-floor laundry room, which housed some of the hotel's dryers, water heaters and boiler units, were released through a vent...lint from the laundry room was plastered to air conditioning units in several rooms...room's air conditioning unit, which operated by sucking air in and cooling it, likely pulled in carbon monoxide gas after it was emitted from the laundry room"; a safety switch on a water boiler had been disabled - the switch which was to shut boiler off "if proper combustion did not occur" - switch disabled because it interfered with hot water production at the hotel; reports of both guests and employees	
# #	NM	Moriarty	11/18/01		Lariat Motel			1	1			room	2 guests found in their room, one deceased and one unconscious, by motel workers around 10am when they failed to check out	
# #	MA	Palmer	?/?/2001		Kings Inn								<i>*listed on Dr. Weaver's spreadsheet, source listed as Union-News Springfield - unable to find information online</i>	
# #	CA	Ventura	?/?/2001		Mission Bell Motel								<i>*listed on Dr. Weaver's spreadsheet, source listed as Ventura County Starr - unable to find information online</i>	
# #	NM	Carlsbad	7/6/02		Park View Motel				2				two victims were women found unconscious in room	
# #	WI	Chetek	8/21/02	Frank Hekenberger, 81 & wife Catherine Hekenberger, 85 (both deceased)	Northland Resort			2			furnace		couple had stayed at resort many times previously; owner noticed he had not seen them and went to check on them around 12noon - found body of husband in the kitchen/living area and left to call 911; fire dept reported CO levels at 248 ppm and found corroded furnace vent pipe, clogged chimney	
# #	NY	Albany	?/?/2002		Holiday Inn								<i>*listed on Dr. Weaver's spreadsheet, source listed as Times Union - unable to find further information online</i>	
# #	AZ	Flagstaff	1/8/03	Jack Foster, 31 & Jeanette Laurer, 25 (injured) - she was 8 1/2 months pregnant and delivered stillborn baby after being transported to hospital	Paradise Motel			1	2	1 deceased	wall heater	room	hotel owner knew the heater was broken and gave the couple an electric heater to use - husband thought he fixed the heater so turned it on; stillborn's death determined to be from CO poisoning	
# #	NH	Lincoln	8/6/03		Indian Head Resort				27		water heater		problem identified when guests became ill; investigation discovered crack in the chimney of the hot water heater; high levels of CO spread thru "attic, walls, and ceilings"; owner installed CO alarms following incident	
# #	KS	Salina	9/16/03	Rivers family: Roslyn, 36, Robert 41, Adam, 10 and Alexis, 9 (all injured)	Holiday Inn Express	Y		4	2 injured		pool heater		Family had been in pool for 15 minutes and all began feeling ill - all got out, boy passed out and fell in pool, father collapsed; fire dept responded and found CO levels of 1600ppm in pool room and faulty vent for pool heater; hotel installed CO alarms following incident	
# #	MA	Danvers	9/17/03		Sheraton Ferncroft Hotel & Resort	Y		4			pool heater		4 victims were maintenance employees of hotel - 2 were found unconscious on the floor of the boiler room when they had been out of contact for an unusual amount of time; hotel evacuated, comider outside of boiler room measured CO levels at 900 ppm , failure of pool heater vent system	
# #	MO	St. Louis	12/18/03		Chase Hotel				2		water heater	basement	fire dept called when 2 laundry room workers became ill around 11am; found elevated levels of CO in basement and evacuated guests	
# #	WY	Jackson	1/17/04		49'er Inn and Suites				18		boiler	below victims' rooms	three guests called front desk reporting rapid heart rate, dizziness and lightheadedness - hotel called 911; "Firefighters determined that the gas escaped from a broken connection in two pipes leading from the motel's boiler beneath the rooms where the victims were staying" - theorized that pipe may have been broken due to a 5.0 magnitude earthquake that hit area on January 7; Fire Dept measured CO levels at 300ppm in victims' room who had the most exposure - those victims were flown by helicopter to hospital in Pocatello, ID for treatment in a hyperbaric chamber; hotel installed CO detectors in "all areas of combustion" following incident	
# #	AZ	Kingman	2/14/04	Sharmallee Ann Johnson, 20 (deceased), and boyfriend Frederick Louis Herzer, 23 (injured)	Best Western Kings Inn	Y		1	1		boiler	below victims' room	Couple checked into suite on 2/13; at about 7pm on 2/14 "management found a deceased female in a bathtub and a male who was not responsive on a couch"; CO levels in room measured at 420ppm ; surviving victim was flown to Barrow Neurological Institute in Phoenix in critical condition; "nickel sized holes in the boiler's exhaust pipe" were found; according to subsequent lawsuit filed, the installer of the jacuzzi tub in bathroom "failed to properly caulk or otherwise seal the holes...creating a common airspace between room 240 and the boiler room"	
# #	IN	Indianapolis	6/9/04	Robert Perreault (injured), Raymond Williams (injured)	Amerisuites	Y			2				Westlaw Perreault v. Prime Hospitality Group 2006; Raymond v. Prime Hospitality Group 2006; complaints state that both victims were guests at the hotel and suffered CO poisoning caused by CO seeping into their rooms	

# #	NJ	Newark	7/7/04		Best Western Newark Airport West	Y			15		transformer fire	in a small bldg about 6 ft from main hotel bldg as well as walls between rooms	hotel employees called 911 when guests complained of feeling faint - "shortly before the clatter of in-room carbon monoxide alarms signaled that something was wrong"; high levels of CO in upper floors; firefighters unable to find source, called HazMat team who found "elevated carbon monoxide levels from the vaporizing of PCB-laden insulation on the transformer's wires"; transformer located in a separate building - fumes spread thru hotel ventilation system, "more fumes were created when other electrical wires sizzled inside walls between the rooms"; six story hotel; hotel windows don't open so difficulty clearing building of CO	
# #	NH	Lincoln	8/29/04		Rivergreen Resort Hotel				45				Desk clerk became ill and called 911; EMS responded and "recognized potential CO exposure and notified Fire Dept along with evacuating the building"; CO levels measured at 400ppm; "Prevailing winds coupled with heavy damp air moved CO from the rooftop vent across to the air intake for the building. CO found on all levels. Possible cause due to environmental conditions. CO lingered on the roof and was drawn in by the fresh air intake."	
# #	SD	Yankton	12/23/04	Eleshia Zahrbock, Peyton Gerry, Justin Zahrbock, Jonette Anson (all injured)	Star Brite Inn Motel				4	1 injured	furnace		man, woman and 5 y/o child experiencing headaches and nausea around 3am; emergency crews responded and found unconscious woman in another room; "exposure was caused by a furnace drawing exhaust fumes back into the building. Carbon monoxide levels in parts of the motel were eight times the acceptable level"	
# #	NE	Lincoln	12/30/04		Holiday Inn Express	Y			6		pool heater		10 y/o girls sick at pool party in afternoon, taken to hospital; hotel evacuated; prior incident on 12/25 family of 4 sick in pool area with vomiting and headaches, complained to hotel staff and were told "their sickness likely was caused by going between the hot tub and the swimming pool"; following incident hotel installed CO detectors in the pool area	
# #	LA	Baton Rouge	?/?/2004		TownePlace Suites								<i>listed on Dr. Weaver's spreadsheet, source listed as Advocate - unable to find information online</i>	
# #	OH	Sandusky	?/?/2004		Rodeway Inn	Y							<i>*listed on Dr. Weaver's spreadsheet, source listed as Blade (Toledo) - unable to find information online</i>	
# #	VA	Richmond	?/?/2004		Amerisuites	Y							<i>*listed on Dr. Weaver's spreadsheet, source listed as Richmond Times-Dispatch - unable to find information online</i>	
# #	TX	Waco	?/?/2004		Economy Motel								<i>*listed on Dr. Weaver's spreadsheet, source listed as Waco Tribune-Herald - unable to find information online</i>	
# #	MD	Ocean City	6/21/05		Days Inn	Y			2+		hot water heater		<i>incident is referenced in a subsequent CO fatality at same hotel - see case #2006-0627MD; "...several vacationers were taken to a nearby hospital and treated for exposure to carbon monoxide"; month and day of this incident is unconfirmed - one source lists "on or about June 21, 2005", another lists March 2005</i>	
# #	NM	Ruidoso Downs	7/27/05	Booth family: Blayne & Lori, Alexandra, 5, and Jacob, 18 months (all injured)	AmerHost Inn & Suites				4	2 injured	pool heater		family taken by ambulance to the hospital where they were diagnosed with CO poisoning; CO leaked "from a poorly constructed or repaired exhaust venting system related to the Motel's pool heating equipment"	
# #	MT	Red Lodge	11/12/05	Michael & Jennifer Butler (8 months pregnant) - both injured; Laurie White (injured - 5 months pregnant)	Rock Creek Resort				42		pool and spa heaters	basement	200 guests attending a Marine Corps banquet, sick throughout day, 42 required transport to hospitals - 14 of them had to be flown to Billings for treatment ("at Billings Clinic, three people had to take turns in the state's only hyperbaric chamber"); victim Laurie White who was 5 months pregnant at the time of the incident gave birth prematurely a month later - the baby died two months later, premature birth was attributed to carbon monoxide poisoning; subsequent investigation by state inspectors listed "inoperable vents for the pool heaters, holes in the supply duct and other pieces of the system that did not appear to be working...new spa heater had apparently been installed in August without a mechanical permit"	
# #	NJ	Clinton Town	12/16/05		Holiday Inn	Y			14		generator	lower level	CO alarms went off in 2 guest rooms, 1 of which was occupied; "Members of the Clinton fire and police departments were the first to respond. At about 1am the Clinton Fire Department asked for assistance because of the high carbon monoxide readings. 'They conducted the necessary evacuation and it went great,' said Sacco (hotel manager). 'They helped provide optimal safety for the guests. It was very orderly.' Hotel operations returned to normal about three hours later, Sacco said. Also responding to the scene were the Hunterdon County Office of Emergency Management and 16 area emergency services units. The county Office of Emergency Management sent its mobile command unit and set up a command center in a parking lot near the main lobby of the hotel, said Frank Veneziala, county EMS deputy coordinator. Members of the Clinton and Quakertown fire departments checked each of the hotel's rooms with monitoring equipment...The Quakertown Fire Dept brought a large ventilator system that removed much of the carbon monoxide...by the time the Clinton squad arrived, Clinton Fire Chief Tim Langston was already checking rooms throughout the hotel...members of the Clinton Rescue Squad screened 115 people in one of the hotel's ballrooms...because of the large number of ambulances responding, a staging area was set up for incoming ambulances at the Commerce Bank parking lot. 'We treated everyone from young to old, anyone on the floors of the affected areas,' said Chad Newsome of the Clinton Rescue Squad. 'The evacuation went well, the county got the command center set up quickly. We were very lucky. It could have been a lot worse."	
# #	IA	Des Moines	2/13/06		Sheraton Hotel	Y			5				injured were all employees of hotel	

# #	FL	Daytona Beach	3/12/06		Plaza Ocean Club Hotel			7				two guests taken to the hospital and diagnosed with CO poisoning; firefighters found elevated levels of CO on top two floors of the 11-story building; victims included two hotel employees; source determined to be a "leaky chimney pipe"	
# #	IN	Mishawaka	4/8/06		Country Inn & Suites	Y		22	20 injured			Hotel manager called 911 when two children collapsed in the dining room; Fire Dept responded and found CO levels measuring 450ppm in pool room next to dining area; most of the injured were children ages 4-14 y/o; hotel was evacuated and closed until source of leak could be found	
# #	NV	Yerington	4/16/06	Phillip Doll, 26, Donna Vega-Robles, 30, Juan Pablo Chavez, 27, & wife Veronica Espinoza Chavez, 20 (all deceased)	Casino West Motel			4		pool heater	below victims' room	victims checked into hotel at 5:30am and were discovered about 1:15pm after hotel maintenance worker answered complaint of water leaking into room below - went upstairs and found a female victim in bathtub with water running and male victim against bathroom door; high levels of CO found in surrounding rooms; "a series of problems led to the CO exposure"; "The heater used to warm the motel pool was not burning properly, a roof vent was not the proper height and the cap on the vent had been removed, the vents in the door to the pool equipment room had been covered with cardboard and sealed with duct tape, and the control panel had been altered such that there was no reasonable way to shut the heating unit off without disarming the power."	
# #	MD	Ocean City	6/27/06	Patrick Boughter, 40 (deceased) & wife Yvonne Boughter, 36 (injured) & daughters Kelly Boughter, 10 (deceased) and Morgan Boughter, 7 (injured); Betty Jo Kennell & daughters Jennifer Hagenbuch and Michelle Robertson, & granddaughter Ashley Hagenbuch, 17, and Holly Brelsford, 17 (all injured)	Days Inn	Y	2	7	1 deceased 3 injured	water heater	basement - directly below victims' room	Multiple calls to 911 from victim Yvonne Boughter who reported she and her family were ill and confused, and from additional victims in neighboring two rooms - miscommunication between responders and dispatchers resulted in medics responding to other two rooms and not the Boughter's. In addition, assumption was made that victims were suffering from food poisoning. Medics finally responded to Boughters' room 4 hours later when Yvonne came to and called 911 again, at which time both her husband and her older daughter were deceased; exhaust pipe leading from hot water heater to a vent to the outside became dislodged allowing CO to seep into 1st floor hotel rooms; boiler inspector found run of vent pipe was "way too long...which could have contributed to pipe supports collapsing and the pipe detaching"; water heater listed by manufacturer for residential use only and was not to be used in basements or under floor spaces, and it was listed as "for methane use only" but found to be running on propane; water heater was cause of a previous CO incident at this hotel on June, 21, 2005 where hotel "experienced similar problems with a hot water heater...several vacationers were taken to a nearby hospital and treated for exposure to carbon monoxide"	
# #	WA	Fife	7/23/06		Emerald Queen Hotel & Casino			2				CO detected on third floor of hotel; fire dept contacted when hotel workers smelled a "chemical" odor coming from a storage room; evacuated third and fourth floors	
# #	VA	Falmouth	7/27/06		Wingate Inn			7		boiler	first floor	911 received hang-up call from hotel, when dispatcher called front desk back hotel clerk said guests were complaining of dizziness and lightheadedness; rescue workers evacuated hotel; CO levels at 265 ppm; highest concentrations of CO found in rooms above boiler	
# #	FL	Miami Beach	10/22/06		Hilton	Y		2				fire dept called when 2 guests began feeling ill; several guests tested positive for CO; building shut down for at least 3 days	
# #	FL	Key West	12/21/06	David Smith (injured) & wife Jody Smith (injured) & son Nathan Smith (injured)	Doubletree Grand Key Resort	Y		2		boiler		victims diagnosed with CO poisoning at hospital - see case below #2006-1227FL	
# #	FL	Key West	12/27/06	Thomas Lueders, 26 (deceased) & father Richard Lueders, 53 (injured);	Doubletree Grand Key Resort	Y	1	7		boiler	adjacent to room of decedent	Hotel manager found victims unconscious in their room after a fire alarm went off, son was on bed and father was on bathroom floor - attempted CPR and also fell ill, all three were rushed to hospital; Thomas Lueders was pronounced dead on arrival to hospital, Richard Lueders was flown to Ft Myers for treatment in hyperbaric chamber; six days before this incident, on 12/21, a family from Iowa staying on same floor called for an ambulance - presumed cause was food poisoning so no investigation - hospital diagnosed CO poisoning and later stated they "did notify the Doubletree hotel of the carbon monoxide exposure. Police rescue and fire personnel were also aware of the events."; Fire Chief said that family "rode in a boat and did other activities that could have exposed them to carbon monoxide before they fell ill"; CO leak resulted from "the leaky, fourth-floor boilers and ill-repaired ventilation system on the roof"	
# #	MD	Baltimore	1/11/07		Holiday Inn BWI	Y		2		furnace	damper on rooftop furnace	CO alarm activated around 9am; hotel evacuated; Fire Dept. measured CO levels at 30ppm in lobby; "a damper on a rooftop furnace malfunctioned, drawing the exhaust back into the building, where it was recirculated"; victims hospitalized, both were employees - front office manager and line cook	
# #	PA	State College	8/7/07		Residence Inn by Marriott	Y		6				police and emergency personnel called to hotel for report of "high levels of carbon monoxide in the pool area"; hotel evacuated and six people taken to the hospital	
# #	PA	Upper Merion	9/3/07		MainStay Suites			4	3 injured	heater		3 children - ages 6, 5, and 3 - and a maintenance worker became dizzy in the pool area of the hotel, children were taken to emergency room where they were diagnosed with CO poisoning; diagnosing physician called the hotel to inform them to check for "carbon monoxide issues"; Fire Dept found high levels of CO in hotel and evacuated it; "found the heater was leaking gas" as well as a "faulty chimney"	
# #	CA	San Deigo	11/9/07		Marriott Residence Inn	Y		2		water heater		housekeeper discovered victims unconscious in their beds at 2pm - they were supposed to have checked out that morning; Fire Dept responded and evacuated building; "it appears that a water heater vent pipe had come loose and filled their room with carbon monoxide"	

# #	AZ	Kingman	12/17/07		El Trovatore Motel							fire dept responded to a call for a "disoriented fall victim" about 8:30am and transported victim to hospital - about two hours later ER doctor contacted fire dept to inform them victim had CO poisoning and husband was still at motel; fire dept responded and evacuated a portion of motel; two other victims transported themselves to ER - article states reporter unable to determine total number of victims as hospital unable to disclose information due to confidentiality concerns; victims were extended-stay guests of motel; owner of motel "had given all tenants electric heaters, however some tried to supplement by turning on gas stoves and ovens overnight without proper ventilation"; CO levels measured at 80-110ppm
# #	PA	Allentown	1/18/08	Phillip Prechtel, 63 (deceased) & wife Katherine Prechtel, 63 (injured), Jason Hannah (injured)	Best Western Allentown Inn & Suites	Y	1	9		water heaters	Basement - propane water heaters vented to outside, construction workers erected tent-like canopy over vent	guest called 911 was suffering "flu-type symptoms" and single ambulance responded; an hour and five minutes later 911 was called for two unconscious guests and "within 15 minutes a Level 1 Multi-Casualty Incident was declared to bring in additional ambulances"; hazmat team measured CO levels at 100ppm ; CO determined to be coming from propane heaters venting to the outside properly, but their exhaust vents had been covered with a clear plastic tent to allow construction workers to repair stucco on the building's exterior; Fire Commissioner press conference: "Two police officers and three ambulance attendants who were first to arrive also were sickened...emergency personnel described a chaotic scene as they entered...while the fire alarm sounded and guests were evacuated, a woman lay on the floor of the lobby. Her skin was blue and she was barely breathing. She was being attended to by other hotel guests. The man she was staying with in Room 115 (her husband) was already dead. High levels of CO infiltrated the basement and first floor of the three-story hotel...there were no carbon monoxide detectors in the building"; the canopy erected by constructions workers "trapped gases emitted by three 80-gallon, gas-powered hot water heaters" - CO levels measured more than 400ppm in the Prechtels' room; following the incident, hotel installed CO alarms in all guest rooms; Martin Plastering was
# #	KY	Jeffersontown	1/20/08		Comfort Suites	Y		17		water heater		guests complained of headaches, shortness of breath, nausea and vomiting; CO readings on second floor of hotel at 440+ ppm ; water heater broken and serviced the day before the incident
# #	MD	Baltimore	2/2/08	Luis Portillo, Sascha Schwieman (both injured)	Pier 5 Hotel Inner Harbor			20		boiler	basement	employees began feeling ill and vomiting, called 911 - Fire Dept. responded and evacuated hotel restaurant and lobby; CO levels measure at 700ppm ; victims were all employees of Ruth's Chris Steak House Restaurant which was housed in the hotel; subsequent investigation found CO leaking from crack in basement boiler and that it had been emitting CO "for a period of weeks"
# #	NC	Raleigh	3/25/08		Super 8	Y		8		water heater	laundry room	five hotel guests in a vehicle flagged down an ambulance at 4:30am complaining of feeling sick; hotel was evacuated and three more guests were taken to hospital; "investigators found a heavy concentration of carbon monoxide in the laundry room"
# #	TX	San Antonio	6/22/08		Hotel Mimosa Riverwalk			2	1 injured			hotel evacuated after a guest complained of nausea and a headache and CO leak was detected; a woman and her toddler were among the injured guests
# #	VA	Virginia Beach	7/6/08		Ocean Sands Hotel			8				Fire Dept responded after receiving calls of about guests suffering from nausea; "Crews discovered an electrical short in a spa motor had caused a ventilation fan to malfunction. The fan didn't push the carbon monoxide out of the equipment area."
# #	NY	Sweden	9/13/08		Holiday Inn Express	Y		2		water heaters		hotel's manager pulled the fire alarm when she began to feel ill and thought she smelled gas; 73 guests evacuated; CO levels measured at 1400 ppm
# #	IA	Fort Dodge	1/31/09		Travel Inn			5	5 injured	fumace		five children became "lethargic and dizzy" in pool and were taken to the hospital; Fire Dept responded and found levels of CO "more than 14 times high than the safe level"
# #	NC	Huntersville	3/23/09		Country Inn & Suites	Y		2				teenagers became ill - one lost consciousness - in pool area while attending a pool party
# #	WI	Green Bay	5/7/09		Days Inn	Y		2		furnace		two guests called for ambulance thinking they had food poisoning; first responders suspected CO; firefighters pulled fire alarm to evacuate building; CO spread throughout ventilation system; officials detected levels of 800ppm on fourth floor where victims were staying, 1000ppm on the top floor - 5-story hotel; hotel windows do not open, difficult to ventilate building, leak traced to a crack in furnace
# #	MD	Ocean City	6/11/09		El Capitan			6	2 injured	pool heater	basement	Fire Dept called when a family became ill - family included mother and father, two children and two grandparents; family was staying on the first floor; investigators detected levels of CO at more than 1000ppm , evacuated building and performed a door-to-door search on each of eight floors; subsequent investigation determined the pool heater was "improperly vented"; hotel had no CO alarms and was subsequently fined \$2000 by the fire marshal's office due to being out of compliance with a 2007 local law that was passed requiring them in all hotels in Ocean City, law was enacted as a result of 2006 case - see case #2006-0627MD

# #	MD	Ocean City	8/11/09		Americana Hotel													police received call about guests being ill in hotel at approximately 8:20am, high levels of CO found throughout building, especially high in top three floors; police closed and evacuated hotel - firefighters conducted door to door search of 94-room seven-story hotel; 91 of 94 rooms were occupied; some parents were separated from their children when evacuation began; guests reported feeling ill the previous evening in their rooms; hotel owner subsequently pled guilty to failure to provide CO detectors, which were required in all hotels by a 2007 law passed following the 2006 deaths of a father and daughter (see case #2006-0627MD); owner also agreed to donate \$10,000 to the Ocean City Fire Dept to help with its CO detector outreach program; cause of CO leak was never determined, fire marshal quoted one year later: "Everyone had their theory, but with several mechanical devices in bad repair at the time, we may never know the real cause."	
# #	MA	Boston	9/16/09		Liberty Hotel									boiler				CO alarms sounded and guests were evacuated; "Investigators tracked the problem to a boiler that had a small hole."	
# #	NJ	Budd Lake	10/22/09		Marriott Residence Inn	Y								boiler				hotel manager called Fire Dept around 7:40am after an alarm activation in the boiler room; Fire Dept detected "elevated levels" of CO; partial evacuation	
# #	WV	Triadelphia	12/6/09	Christopher E. and Judith E. Groff, Ivan and Christine Liggett (injured)	Comfort Inn	Y								portable heaters used by construction workers				"construction workers employed retaining sheets and torpedo heaters to facilitate the work performed in the cold weather...caused buildup and release of carbon monoxide into guest rooms"	
# #	MI	Romulus	12/28/09		Best Western	Y												numerous guests ill - some passed out on hotel room floors, complained to staff; Fire Dept responded and evacuated hotel	
# #	LA	New Orleans	1/18/10		Ritz-Carlton													"buildup of carbon monoxide on some of the guestroom floors, which resulted in the evacuation of hotel guests and the treatment of some guests at nearby hospitals"	
# #	FL	Daytona Beach	2/13/10	Kenneth Shaw & wife Dawn Shaw (both injured)	Boardwalk Inn & Suites									pool heaters	parking garage below room			Victims' room was located on the first floor, directly above an enclosed parking garage; according to expert opinion in subsequent lawsuit, "brick grates originally designed to permit airflow into the garage for ventilation purposes had been blocked...allowed carbon monoxide to concentrate and enter the room through openings where plumbing lines penetrate the ceiling of the garage"	
# #	TN	Chattanooga	2/14/10		Courtyard by Marriott	Y								undetermined - possible delivery truck left running				hotel evacuated after 4 employees fell ill in break room in basement complaining of nausea and dizziness; one of the victims was reportedly pregnant; seven-story hotel, 120 of 128 rooms were occupied; CO may have entered hotel thru dryer vents from a delivery truck that had been left running a short distance away	
# #	NH	Portsmouth	2/15/10		Hilton Garden Inn	Y								boiler	basement			911 called after a worker who was found unresponsive in the basement laundry room; CO detected and hotel was evacuated; CO was measured at 600 ppm , upper floors 100 ppm ; source determined to be "a malfunctioning vent in the building's heating system, located in the basement"; "unsafe levels" of CO found throughout building; injured guests included "a number of children" who were in the pool; Fire Chief "determined there to be a Level 1 mass casualty incident" calling in ambulances from five neighboring areas; Fire Dept's "portable pulse oximeter allowed firefighters to evaluate guests and workers who might have been exposed, an estimated 25-30 people, and to determine whether they needed to be brought to the hospital"; hotel installed plug-in CO detectors immediately following incident but were required to install a hard-wired system in order to comply with a new state law that mandates CO detectors in hotels	
# #	NV	Reno	3/21/10		Keno Motel									boiler	basement			"A metal exhaust flue that runs from the basement boiler and extends through the roof apparently was shaken loose by high winds"; CO measured at 240ppm ; about 25 people live at the motel; fire dept called when several guests began feeling ill	
# #	NY	Melville	6/28/10	Steven Anderson (injured)	Melville Marriott	Y								water heater	below victim's room			two guests ill and went to hospital where they were diagnosed with CO poisoning - hospital alerted hotel who called Fire Dept; Fire Dept found elevated levels of CO in guest rooms above the boiler room; another victim reported feeling nauseous during the previous night, for period of time was unconscious on bathroom floor, awakened around 4:30pm by firefighters evacuating the building, subsequently collapsed in hallway and was taken to the hospital	
# #	IA	Mt. Vernon	11/11/10		Sleep Inn	Y								boiler				Firefighters called to hotel around 11:20pm for sick guests, found "exhaust pipe for a water boiler came loose, causing carbon monoxide to escape into the building"; according to news article, "(hotel general manager) said maintenance fixed the leak, but she said they are unsure what caused the problem."	
# #	WV	Snowshoe	12/26/10		Seneca Lodge - Snowshoe Mountain Resort									water heater	basement			Fire Dept responded to call for person with chest pain and found another person with similar symptoms - determined CO was present and evacuated building; victims were all employees, 2 unresponsive when evacuated; CO levels on ground floor measured 999 ppm as high as monitors would go	
# #	FL	Hialeah	12/27/10	Juchen C Marctial, 19, Peterson Nazon, 17, Jonas Antenor, 18, Jean Pierre Ferdinand, 16, Evans Charles, 19 (all deceased)	Hotel Presidente									car exhaust	parking garage below room			victims parked in the bottom-floor, single car garage and left car running due to low battery - the door to the interior stairway leading the room on the second floor was opened slightly, allowing the CO to seep upstairs; maid discovered the victims and called 911	

# #	CA	San Francisco	1/6/11		San Francisco Marriott Marquis	Y			6		water heater	restaurant next to hotel	victims were 4 guests staying in 4 separate rooms - in evening all complained of flu-like symptoms and contacted hotel doctor who recognized "there was a safety issue," hotel staff called Fire Dept who responded and found high levels of CO; two days before incident 2 separate ambulance calls had been placed for for sick guests in same rooms but connection to CO not made; investigation led to discovery of CO leaking from a water heater in a restaurant next to hotel and drawn into hotel's air intake system
# #	WI	Marshfield	1/25/11		Stardust Motel				1		furnace	basement	Fire Dept called to hotel at 6:46am for man having chest pain and while tending to patient, the alarm sounded on an EMS bag CO detector; hotel evacuated and CO leak discovered in furnace in basement; according to Fire Chief, "The CO level at the hotel was three times higher than the level at which a building is evacuated"
# #	ME	Portland	3/4/11		Residence Inn	Y			7				Fire Dept was notified when 2 guests went to hospital experiencing nausea and headaches, evacuated hotel; high levels of CO found in rooms and hallways, some 500ppm; Fire Chief said "...exhaust fumes from the heating system were sucked into the air intake system on the building's roof. The problem seems to have been caused by a combo temperature inversion and wind currents."
# #	NY	West Seneca-Buffalo	3/12/11		Hampton Inn	Y			9		heater	roof	"Police responded to a call from the front desk manager at about 5:30am yesterday after two guests asked to be moved to a new room. The couple felt dizzy and faint and had told hotel workers they believed fumes in their room were responsible." High levels of CO found on five floors of hotel; police and fire conducted room-by-room evacuation
# #	MN	Milaca	4/12/11	employee/contracted worker	Phoenix Hotel & Banquet Center				1		pressure washer	pool	according to OSHA report, victim was contracted worker engaged in power-washing pool and jacuzzi area; "The ventilation system in the pool area had not been functional for the last two years, and the windows in the pool area could not be opened...about an hour after using the gasoline powered washer (employee) collapsed. He later died from carbon monoxide poisoning."
# #	UT	St. George	4/15/11		Comfort Suites	Y					water heaters	third floor	hotel called gas company for "complaints of what was believed to be carbon monoxide"; gas company found high levels of CO on first, second and third floors - called Fire Dept; hotel evacuated; "some exhaust piping had separated and caused CO2 (sic) to leak onto the floors"
# #	MD	Laurel	4/30/11		Sleep Inn	Y			11	5 injured	pool heater		Fire Dept called to hotel for reports of five children complaining of headaches and nausea; discovered high levels of CO and evacuated hotel
# #	AR	Little Rock	6/9/11		Comfort Inn	Y			10	2 injured	pool heater		family of 4 (2 adults and 2 children) taken to hospital; fire dept found unsafe CO levels on all floors
# #	OR	Agate Beach	6/19/11		Agate Beach Best Western	Y			3	1 injured	dryer	basement laundry room	2 employees ill in laundry room with upset stomach and dizziness, hotel called 911; Fire Dept responded with with 2 fire engines, 1 ladder truck, 1 heavy rescue vehicle and 17 firefighters; hotel evacuated and high levels of CO were detected in basement, upper floors 400-600ppm; 3 y/o girl transported to hospital
# #	OK	Norman	7/25/11		Sooner Legends Inn & Suites				21		boiler		family staying at hotel took their 3 y/o to ER when he began having trouble walking and was acting intoxicated - nurse called alerted the fire dept that child may have inhaled some kind of gas; Fire Dept detected high levels of CO and evacuated building; CO found to be leaking from "a damaged ventilation pipe running from boiler to roof"; hotel owner said incident was a wake-up call and purchased CO detectors for entire building
# #	PA	Allentown	7/25/11		Best Western Allentown Inn & Suites	Y					water heaters		2nd incident of CO at this hotel (prior incident - see case #2008-0118PA); according to hotel, a power surge caused water heaters to malfunction leading to gas leak; CO alarms (installed after 2008 fatality) went off and all guests were evacuated safely w/o illness or injury; hotel was closed for approximately one month before receiving a certificate of occupancy allowing reopening after leak
# #	OH	Columbus	9/3/11		Comfort Inn & Suites	Y					water heater	mechanical room	Guest's portable CO alarm went off in room, registering levels of 20-25ppm; manager let him into an empty room which also displayed a high reading so called fire dept who discovered a malfunctioning water heater
# #	IL	Bourbonnais	11/12/11	Shawn & Jessica Hilborn & their three children; Christopher & Cortney Coombs & their 2 children (all injured)	Holiday Inn Express & Suites	Y			9	5 injured	pool heater		victims experienced nausea, headaches and dizziness while at pool, children lost consciousness; Fire Dept arrived and determined high levels, exceeding 300ppm, of CO in swimming pool area
# #	CT	Danbury	11/25/11		Ethan Allen Hotel				2		boiler		employees smelled what they thought was a gas leak near the kitchen area and contacted authorities who told them to evacuate the building; Fire Dept arrived and found high CO levels; source of leak was an "improperly vented water boiler"
# #	WI	Green Bay	12/30/11		Hilton Garden Inn	Y			16	5 injured	pool heater	mechanical room	911 called for 2 children who were sick in pool area around 9pm; when rescuers arrived, found "four small children and other victims suffering symptoms that included headache, nausea and vomiting"; more guests came forward complaining of similar symptoms; "reports show that ambulances transported a 17-year-old girl"; fire officials found CO levels at 800ppm near pool and 957ppm in adjacent equipment room, along with high levels in a workout room, a stairway and several restrooms; "The fire department also directed hotel employees to check out other guests throughout the 123-room hotel. Two staff members then took a list and proceeded to do a room-by-room search"; WI law required CO detectors at this time -- possible issue of hotel not being in compliance

# #	ND	Williston	1/29/12		Airport International Inn			12	2+ injured	boiler	pool area	guest collapsed in shower, phoned for help; ambulance arrived and called Fire Dept for assistance with hotel evacuation; many of hotel guests were parents and players of hockey team from Weyburn, Saskatchewan, Canada, who were in town for a tournament; parent whose son required oxygen treatment at hospital described the scene as "unorganized chaos...staff just continued working as if nothing had happened"; CO leak "blamed on an object being blown over a boiler vent in the hotel's pool area"; CO alarms installed following incident
# #	WV	South Charleston	1/31/12	William Moran, 44 (deceased), Isaac Croy, Emmett Williams, Craig Reed, Terry Harvey, Dale & Susan Rosenbrook, Bain Edmondson (all injured)	Holiday Inn Express	Y		1	16	pool heater		Victims Moran and Edmondson were discovered deceased and unconscious/seizing, respectively, in room 511 by two co-workers who had been let into room by hotel manager when they failed to show for a morning meeting - called 911; on arrival, Fire Dept rendered aid and with police questioned co-workers about victims' previous activities, transported surviving victim to hospital and immediately began testing for CO and got reading of 317ppm in room; evacuated and called for additional units to do room-to-room search; found heaviest CO concentration on 3rd-5th floors ranging from 200-750ppm ; Fire Dept Investigation Summary 2/12/2012: "Upon completing interviews and a thorough investigation, it has been concluded that the vent flu pipe was physically manipulated at the top to be connected to the outside vent. This was likely done when the unit was originally installed approximately 11 years ago. The removal and inspection of the old pool heater unit started the process of the vent flu pipe coming loose. The installation of the new pool heater unit further compromised the pipe. There were scratches on the piping indicating that it had been moved along the hole between floors against the concrete. Through vibration of the water filtration system and the pool heater unit, the vent flu pipe became dislodged thus creating a buildup of carbon monoxide in the open shaft area. The heat from the pool heater traveled through the vent pipe forcing the carbon monoxide to travel to rooms on both sides of the shaft and into the elevator shaft. In room 511, the heater ac unit was set to fan only so the movement of air was limited to the room. After installation of the new pool heater, there were no procedures followed as recommended by the manufacturer of that particular unit. The unit was therefore not properly tested and inspected. There were no
# #	TX	Irving	3/19/12	Man, pregnant woman and their three children, ages 1, 8 and 10 (all injured)	Hyatt Place	Y		5	3 injured	boiler		family of five staying at hotel drove themselves to hospital due to headaches and nausea - staff at hospital diagnosed CO poisoning and contacted fire dept who responded and evacuated hotel after finding CO levels at "more than 100ppm "; multiple guests experiencing nausea, headaches and disorientation
# #	MD	Elkridge	8/27/12		Holiday Inn Express	Y				heater		hotel evacuated after high levels of CO detected
# #	VT	Burlington	10/24/12		Courtyard by Marriott	Y						hotel evacuated "after carbon monoxide detectors signaled Burlington fire department at 7:53am"; "highest levels were on the east end of the third and fourth floors, reaching 70ppm "; hotel full with approximately 180 guests - no injuries reported; fire marshal determined "problem was apparently caused by a 'thermal inversion' - a cold, foggy air outside the hotel inhibiting the expulsion of exhaust"
# #	CA	Burlingame	11/7/12	Robert McNamara, 58 (injured)	Embassy Suites Hotel	Y		1		boiler	pool equipment room - below victim's room	victim checked into hotel on 11/6 and when he failed to show up for a meeting on 11/7, co-workers discovered him unconscious in his room with blood and vomit coming from his nose and mouth and called 911; he was taken by ambulance to the hospital around 6:30pm - CO was suspected by ER doctor but test results were "contradictory"; medic who transported victim later returned to the hospital on an unrelated ambulance run and encountered ER physician who relayed suspicion of CO poisoning - medic reported concern to fire dept around 12:10am; fire dept went to hotel and found CO levels ranging from 20-90ppm on all nine floors - victim's room measured 990ppm ; "Workers at the front desk began calling rooms. Of five called, only one responded. Concerned for the safety of the guests, authorities pulled the fire alarm and evacuated hundreds of people."; San Mateo County District Attorney's Office sued hotel alleging that "the hotel installed a boiler in a pool equipment room in 1998 without obtaining a permit from the city as a cost-saving measure. Over the next 14 years, the hotel did not properly maintain the equipment and it became clogged, holes opened in ventilation pipes and the room's configuration was changed, which prevented proper ventilation and caused a significant carbon monoxide leak." According to a news article, "A state law requiring carbon monoxide detectors in most multiunit dwellings in California went into effect Jan 1. It was also supposed to apply to hotels and motels, but California Hotel & Lodging Association obtained a three-year extension." State law requiring alarms in hotels and motels would not go into effect until 3 years later, 2016; according to subsequent lawsuit, victim "spent three months in the hospital with severe brain damage"
# #	KS	Greensburg	12/9/12		Best Western Plus Night Watchman Inn & Suites	Y		34	3+ injured	pool heater	mechanical room	desk clerk called 911 when group of children and adults attending party at hotel reported having severe headaches and nausea; hotel evacuated, high levels of CO found in lobby and pool area related to "a water heater failing to vent properly"
# #	AR	Siloam Springs	1/21/13	James Fick (injured)	Hampton Inn	Y		5		pool heater		ambulance called for 54 y/o man experiencing rapid heart rate and dizziness, 2 hours later another ambulance call for a 54 y/o man experiencing similar symptoms - emt contacted gas company, responded with police and fire who evacuated hotel; found another guest unconscious in room; "portions of the pipes connected to the heater were rusted, eroded, and deteriorating"
# #	VA	Virginia Beach	2/6/13		Homewood Suites	Y				heater	roof	several 911 calls placed reporting an "unusual odor of gas"; hotel was evacuated, firefighters measured levels of carbon monoxide on several floors of the six-story hotel at 50ppm ; "faulty" natural gas heater found on roof that supplied heat to common areas of hotel
# #	KS	Merriam	2/24/13		Drury Inn	Y						hotel evacuated when CO detected

##	FL	Fort Myers	2/25/13		Crestwood Suites				2		boiler	boiler room	2 guests called EMS complaining of flu-like symptoms - firefighters noticed the guest room's proximity to the boiler room and checked CO levels - boiler room was 2000ppm, lobby 300ppm; cause determined to be a broken exhaust fan in boiler room; another guest staying in the room was hospitalized 4 days prior for similar symptoms "but no one made the connection to carbon monoxide exposure, and the guest was not tested."
##	KY	Lexington	3/6/13		Homewood Suites	Y							hotel manager called 911 after a "strange odor" was noted on upper floors; Fire Dept evacuated hotel after CO levels discovered to be "over 200ppm"
##	VA	Norfolk	3/11/13		Tazewell Hotel & Suites						water heater	basement	Fire Dept called for possible gas leak, found high levels of CO in basement and lobby, low levels in alley behind building
##	TN	Chattanooga	3/19/13		Hixson Holiday Inn Express	Y			2				2 housekeeping staff ill with nausea, dizziness and vomiting in basement laundry room, 911 called; Fire Dept found high levels of CO and evacuated building
##	AL	Hoover	3/29/13		Renaissance Ross Bridge Golf and Resort				15	1 injured	pool heater	basement	family called 911 after unable to wake one of their family members - woman conscious when rescue workers arrived but rest of family, including at least one child, were all experiencing "flu-like" symptoms; firefighters found elevated CO levels in all rooms on 5th & 6th floors and ordered evacuation; reports of guests with similar symptoms earlier in the week, including a family who had checked out and returned home to Florida - Fire Dept contacted them so they could seek treatment; cause of leak found to be a "malfunction in a vent system" that vented the hotel's pool heater
##	GA	College Park	3/31/13	Laveda Green, Jamey Green, Courtney Green, Marilyn Burnett (all injured)	Wyndham Garden Hotel	Y			4	2 injured			On second morning of their stay, victims awoke in their room feeling dizzy and nauseous and one collapsed - 911 called; fire dept responded and found "elevated levels" of CO in room; victims transported to hospital; previous occupant of room reportedly had been ill as well and reported symptoms to hotel staff
##	NC	Boone	4/16/13	Daryl Jenkins, 73, (deceased) & wife Shirley Jenkins, 72 (deceased)	Best Western Blue Ridge Plaza	Y			2		pool heater	below victims' room	no media story until after death of another person in same room 5 weeks later (see case #2013-0608NC); victims discovered in their room by maid when they failed to show up to meet traveling companions for breakfast in lobby, man deceased in jacuzzi tub and woman unconscious on floor - declared dead on arrival to emergency room; pool heater broken/"serviced" 4 days prior to deaths (detail listed in subsequent case)
##	NC	Boone	4/19/13		Best Western Blue Ridge Plaza	Y					pool heater	two floors below victims' room	victims included 10 teenaged girls attending a pool party and staying overnight in room 325 (see case #2013-0416NC above, two victims had died of CO poisoning in room 225 but cause of death was not known at the time of this incident...cause of death not determined until death of a third victim in room 225, see case #2013-0608, at which time this incident was then publicized); after spending time in pool and lobby area, victims went to room and began feeling ill, experiencing headaches and nausea; all but one girl went home ill, and remaining occupants of room slept with the window open, notified front desk "several times" that they were all ill
##	MN	International Falls	5/6/13		AmericInn	Y			1		pool heater		victim found unresponsive in room (138), fire chief discovered two ambulance runs were made to the same room in a short time (April 29 and May 6); first thought illnesses were due to exposure from pool chemicals, hazmat team called and determined malfunction of pool boiler - all poolside rooms were evacuated, CO levels tested at 400-500 ppm; investigation discovered recently installed new boiler was not permitted and "size of the boiler was not proper"; other victims discovered who originally attributed symptoms to sickness and/or were moved to other rooms before symptoms advanced; following incident fire chief purchased detectors for the city's paramedics and police officers
##	PA	Lancaster	5/10/13		Heritage Hotel				2		boiler		2 guests went to hospital experiencing "symptoms similar to carbon monoxide poisoning"; hotel was evacuated - firefighters found high levels of carbon monoxide on second and third floors
##	NV	Reno	5/11/13		El Cortez Hotel				12		water heaters		Hotel evacuated after guests began "feeling ill"; businesses on first floor of hotel also evacuated (subsequent incident at this hotel - see #2013-0601NV)
##	WI	Oshkosh	5/13/13		Hilton Garden Inn	Y						mechanical/laundry equipment room	CO detector went off - first responders found high levels of CO and evacuated hotel; 19 firefighters and five ambulances responded to assist with evacuation and checking guests for CO exposure
##	NV	Reno	6/1/13		El Cortez Hotel				8		"appliances"		Fire Dept called after guest ill; discovered elevated CO levels in basement, hotel evacuated - second incident at this hotel (see case #2013-0511NV)
##	NC	Boone	6/8/13	Jeannie Williams, 49 (injured) & son Jeffrey Williams, 11 (deceased)	Best Western Blue Ridge Plaza	Y		1	1	1 deceased	pool heater	below victims' room	victims discovered by hotel staff when husband/father phoned front desk to ask that room be checked after victims failed to show to meet family - boy found deceased on bed, mother unconscious on bathroom floor, 911 called - fire department responded and measured CO at "lethal levels"; two deaths due to CO poisoning in same room (225) five weeks earlier (see case #2013-0416NC) - carbon monoxide suspected as cause immediately following deaths, but investigators opted to wait for results of toxicology testing on victims to confirm - not confirmed until after this incident; guests also reportedly ill on 4/19/2013 in room 325, one floor up from room 225, two floors up from pool heater; subsequent investigation revealed the following: there were no CO alarms installed in the hotel (some staff erroneously thought the combustible gas detectors and/or the smoke alarms in the rooms were CO alarms); the pool heater was housed in same room as corrosive pool chemicals; pool heater had been previously used and then moved from another hotel w/o proper permit and installed by unlicensed hotel maintenance workers and subsequently converted to natural gas against manufacturer's instructions; pool heater reportedly not working in April and had been "serviced" by a repairman who was not commercially licensed; pool heater found to be venting thru a corroded exhaust system that

# #	NJ	Carlstadt	6/13/13		Holiday Inn Express	Y		1		pool heater		Police and Fire responded to report of activated CO alarms at hotel and evacuated building; Carlstadt Office of Emergency Management also responded; CO levels measured at 300ppm ; CO leak traced to pool heater "which recently had been repaired"; hotel staff member hospitalized; "The detectors are battery operated and not hardwired, so the staff at first thought they simply needed battery changes...after the batteries were replaced, the detectors activated again, so authorities were called"	
# #	WI	Lake Delton	6/14/13	Doug Schuenemann, 6 month-old son & family (all injured)	Travelodge	Y		9	1 injured	pool heater		hotel employees ill and noticed CO alarm "flashing"; Fire Dept. evacuated hotel; cause of leak determined to be "blocked heat exchangers" for 2 heaters in the indoor pool area; hotel management purchased "new and additional carbon monoxide detectors" following incident	
# #	CT	Glastonbury	10/29/13		Homewood Suites	Y				heating unit		Fire Dept responded and evacuated hotel when a CO alarm went off, "traced the source to a heating unit and are ventilating it"	
# #	CA	Palm Springs	11/13/13	Mark Walter Ruf, 48 (deceased)	Curve Palm Springs Hotel & Resort		1	1		pool heater	below victim's room	victim discovered deceased on floor of his room by police after family had contacted them because he had not returned from his vacation; reports of guests ill in same room in weeks before victim checked in; CO exposure related to improperly vented pool heater	
# #	TX	San Antonio	12/8/13		LaQuinta Inn and Suites	Y					boiler room - fifth floor	hotel evacuated after "two guests were reportedly exposed to carbon monoxide"; Fire Dept "found carbon monoxide had accumulated from the boiler room to the fifth floor of the building"	
# #	SD	Aberdeen	12/20/13		Ramada Inn	Y				water heater	basement	Fire Dept called - restaurant and bar evacuated	
# #	OH	Cleveland	12/28/13	Amy Brill (7 months pregnant - injured)	Wyndham Hotel	Y		21	2+ injured	boiler		Fire Dept and gas company responded to a call for a CO leak at 9:30am; evacuated hotel and found high levels of CO; those injured ranged in age from 9 months - 66 years, including a woman who was 7 months pregnant; the previous evening a family called front desk to report a "strange smell" in their room and hallway..."to us, it smelled like natural gas, and that's what we told the front desk...later we were told an engineer had analyzed and identified the smell as a sewer odor that was said to not be toxic or hazardous...the next morning we woke up with headaches...a short time after that, the hotel was evacuated"	
# #	ID	Idaho Falls	12/?/2013	Jennifer Bright	Le Ritz Hotel & Suites			1				victim was employee of hotel; while at work she experienced symptoms of CO poisoning, including dizziness, nausea, fatigue and severe headaches for two months but was not told there had been a CO leak into her office until two years later; according to subsequent lawsuit "the mainline from the pool in the hotel traveled above (victim's) office...carried toxic carbon monoxide gas from the pool pump and heater...had a leak over (victim's) office"	
# #	TX	Lubbock	1/16/14	Harold Rutherford, 59 (deceased), Letiesha Renee Ruth, 43 (injured)	Budget Motel		1	1		wall heater	room	fire/police called by hotel when guests did not check out as expected and no answer at door; both victims found unconscious in room; high CO levels in room and elevated CO levels in other rooms and buildings in the complex; no functioning smoke detectors; all rooms inspected had code violations involving the gas fired appliances; according to civil lawsuit, "In the whole time the owners of The Budget Motel owned the property, they didn't have a maintenance person out...the person in charge of maintenance was the son of the hotel's owner (who) testified that he did not know carbon monoxide was dangerous"	
# #	ID	McCall	2/10/14		America's Best Value Inn			10	1 injured	pool heater		guests complained of headaches after being in the pool and spa area, 3-month-old infant taken by ambulance to hospital	
# #	TN	Pigeon Forge	2/14/14		Mountain Vista Inn and Suites			2		pool heater		victims suffered permanent injuries due to a "malfunctioning pool heating and ventilation system that emitted carbon monoxide as they slept"	
# #	MD	Linthicum Heights	2/16/14	Merletha McKisset, 58 (injured)	Westin	Y		9		water heater	laundry room - first floor	Paramedics called to hotel to help employee who felt faint, while on scene their personal CO alarm went off; hotel evacuated - elevated CO levels found throughout bldg 700-800 ppm ; injured included employees and guests; cause of leak found to be damaged flue assembly for water heater	
# #	ME	Ogunquit	2/23/14		InnSeason Resorts - The Falls			21		furnace	basement	911 called for guests experiencing headaches, nausea, dizziness and vomiting; Fire Dept discovered CO levels in building over 300ppm , evacuated hotel and called for additional ambulances; "faulty furnace" released CO into basement, carried by vents throughout the building	
# #	KY	Jeffersontown	3/16/14		Fairfield Inn & Suites	Y						Carbon monoxide alarms went off and caused guests to evacuate; Fire Dept measured high CO levels throughout building, up to 400ppm ; cause attributed to "malfunctioning gas burning appliance"	
# #	NC	Greenville	3/18/14		Home-Towne Suites							Firefighters responded to a CO alarm activation and evacuated hotel; detected elevated levels of CO on both floors of two-story hotel	
# #	MD	Cumberland	4/22/14		Ramada Inn	Y				gas appliances	kitchen	Firefighters responded when "a monitor alerted" to CO in the kitchen; six-story hotel - elevated levels found on ground floor; evacuated first floor and "hotel personnel checked all (rented) rooms to make sure nobody was having a problem"; "An air-intake was blocked, so no fresh air was coming in and a belt on an exhaust fan wasn't working"	
# #	PA	Crescentville	7/4/14		Days Inn	Y		5		generator	basement	hotel lost power and employees turned on a generator in the basement that "filled the building with carbon monoxide"; around midnight guests ill with nausea and dizziness, hotel evacuated; five people taken by ambulance to the hospital and "dozens more made the trip on their own"	

# #	PA	Dunmore	8/24/14	Julie & Keith Nutt (both injured)	Best Western Plus Hotel on Tigue Street	Y			30		pool heater		guest called 911 for unconscious wife, both found unconscious in hallway by emergency responders; over 200 guests evacuated; CO found to be leaking from a cracked ventilation pipe for pool heater; multiple code violations discovered and hotel was shut down for 18 months
# #	VA	Chantilly	9/17/14	Max Kipfer, 57 (injured)	Hampton Inn Dulles Airport South	Y			1		boiler		victim was sick in his room the night before, went to front desk and was given food/water then went back to room; a persistent friend kept calling his cell phone when he didn't show up for a breakfast meeting and could tell victim was incoherent - rushed to hotel and with help of manager and two maintenance workers, broke down door which was "triple locked, including with the security bar," found victim unconscious on floor; CO poisoning diagnosed at hospital
# #	WA	SeaTac	11/1/14		Radisson Hotel	Y					pool heater		CO alarm went off and top six floors of seven-story hotel were evacuated; hotel had recently installed a carbon monoxide alarm system; firefighters found levels of CO up to "several hundred parts per million," "no reports of illness"; "the source of the CO was determined to be the swimming pool boiler system, which had recently been worked on"
# #	NC	Charlotte	11/3/14		Sleep Inn	Y					"improper equipment"	4th floor	"Firefighters, responding to an alarm, found that a sprinkler had activated on the fourth floor of the hotel due to high temperatures inside a room. In addition...the carbon monoxide detector showed a high reading"; hotel evacuated; "Investigators said a crew that was fumigating the hotel used equipment that caused carbon monoxide to form"
# #	IL	Naperville	11/10/14		Hotel Arista						HVAC unit	roof	Fire Dept responded to report of a natural gas leak inside 12-story hotel, on arrival found "elevated natural gas and carbon monoxide readings" and evacuated hotel; leak traced to a "malfunctioning heating, ventilation and air conditioning unit on the roof of the building"
# #	AR	Rogers	11/11/14		Candlewood Suites	Y					pool heater		hotel evacuated due to leak in pool heater
# #	ID	Preston	11/15/14		Riverdale Resort				19		portable heater		victims were attendees of a family reunion, went to hospital when all began feeling ill; incident occurred in morning but emergency responders not notified of problem until 6pm, investigation was then initiated
# #	PA	Concordville	11/18/14		Best Western Plus Concordville Hotel	Y					heater		Fire Dept responded to CO alarm - elevated CO levels in laundry area of basement as well as 1st, 2nd and 3rd floors, over 100ppm ; approximately 120 guests were evacuated
# #	FL	Orlando	1/18/15	Zachary Williams	Staybridge Suites				1				victim at hotel with family and began to "feel sick, weakness in his legs, rapid heartbeat, drowsiness and dizziness"; diagnosed with CO poisoning
# #	ND	Bismarck	1/18/15		Holiday Inn Express	Y			8	4 injured	boiler	adjacent to pool	paramedics responded to reports of children feeling ill and dizzy in pool area; victims were 4 children and 2 adults and 2 employees; hotel workers evacuated pool area prior to ambulance arrival; source of CO determined to be a boiler in room next to pool area
# #	ND	Bismarck	1/21/15		Holiday Inn Express	Y			6				second incident at this hotel in 3 days - "Fire Department responded to carbon monoxide alarms going off in the building's pool and boiler rooms"; shut off gas line and reported that hotel maintenance was "working on the problem"
# #	IL	Annawan	2/15/15		Best Western Annawan Inn	Y			4	4 injured	pool heater		4 children ill in pool area; CO levels measured at 999ppm ; CO detector in pool area did not have audible alarm
# #	IA	Council Bluffs	3/22/15	15 y/o boy and 37 y/o woman (injured)	Quality Inn & Suites	Y			4	1 injured	boiler		Fire Dept called to hotel for report of "several people feeling nauseated in the pool area"; firefighters found CO levels of 600ppm in pool room and guest rooms; victims were members of hotel owner's family - swimming in pool when they got sick
# #	GA	Peachtree Corners	4/13/15		Hilton Atlanta Northeast	Y			7		"multiple sources"	boiler room	victims were employees who alerted fire dept they were feeling ill since early in the morning; hotel equipped with CO detectors (unclear whether they alarmed); hotel evacuated and guests relocated to other hotels after leak was determined to be coming from "multiple sources"
# #	WY	Gillette	6/3/15		Hampton Inn	Y							Gas Company notified fire dept who evacuated hotel after detecting "dangerous levels of carbon monoxide" on the third floor
# #	MA	Hyannis	7/9/15		International Inn						boilers	basement	Fire Dept "received a call from an alarm company about an activated carbon monoxide detector sounding in the basement"; on arrival Fire Dept detected high CO levels and pulled fire alarm to evacuate building; high CO levels of "well above 100ppm " throughout building; workman had been onsite in boiler room earlier in day
# #	NY	Holtsville	8/13/15		Ramada Plaza-Long Island								Fire Dept/police called to hotel for report of "high levels" of carbon monoxide; guests and employees were evacuated to parking lot when responders arrived; "A possible source being examined is a heating-air conditioning system"
# #	IA	Sioux City	9/2/15	30 y/o woman, her two children and her parents (injured)	Corey Motel - Extended Stay				5	2 injured			rescuers called to hotel on report of five people with headaches and vomiting; unit's hot water heater had reportedly stopped working earlier in the day; "source of the toxic gas was not immediately known, but an initial investigation showed it may have come from obstructed exhaust from the water heater, stove or furnace"
# #	IN	Evansville	11/13/15		Holiday Inn Express	Y			1		water heater		employees smelled gas and called 911; hotel was fully booked for soccer tournament; Fire Dept reported natural gas leak as well as CO; "vents off water heater weren't working properly"; "The property was yellow-tagged, meaning no guest or employee was allowed inside until the repairs were made and the building commission gave the all clear."

# #	IL	Pontoon Beach	1/30/16		Super 8	Y		4	4 injured			4 children at pool party and became ill - hotel called 911; Fire Dept discovered bird's nest clogging pipe from utility room, also discovered hotel's CO detectors were not plugged in; "Officials say the problem has been fixed and all gas levels are normal. The motel has even put an external cover on the pipe in the utility room which was clogged to make sure this does not happen again. It's been recommended that it also use a hardwired carbon monoxide detector in the future."	
# #	OH	Delaware	2/6/16		Best Western Delaware Inn	Y				pool heater		"CO detectors in pool area and pool heater activated...initial CO reading was 114. Gas line to pool and hot tub heaters turned off in heater room. Windows opened in pool room and area ventilated, CO reading dropped to 74. Hotel rooms above and alongside of pool checked for CO with no readings noted. Hotel clerk advised to to keep pool and hot tub heaters off until they could be serviced."	
# #	IN	Huntington	2/13/16		Quality Inn	Y		20		pool heater		guests at party in pool room ill, some passed out; EMS arrived and evacuated building; investigation discovered "extension pipe between the indoor water heater and outdoor exhaust vent was rusted and had fallen apart" - maintenance worker had reportedly been working on the exhaust system earlier that day	
# #	OH	Austintown	3/11/16		Sleep Inn	Y		18	2+ injured	pool heater		EMS called to hotel for child who had fallen in pool area - responders carry CO alarms on their EMS bags, which began alarming; CO levels at 600ppm; high levels in pool area and upper levels of hotel; Fire Chief reported "the biggest struggle was was getting everyone out...we set the fire alarms off and people just ignored them"	
# #	MO	Sunset Hills	4/8/16		Hampton Inn	Y						gas company, fire and police responded to report of gas leak at hotel in pool area, evacuated hotel	
# #	NY	Queensbury	4/20/16		Six Flags Great Escape Lodge					boiler	basement	hotel evacuated when CO alarm went off; Fire Dept found "slightly elevated" levels of CO in the basement; "an issue with a boiler intake was found and repaired"	
# #	NY	Queensbury	4/21/16		Six Flags Great Escape Lodge							2nd incident of CO at this hotel, 1st on 4/21/2016 - hotel evacuated when CO alarm went off	
# #	ME	Portland	6/6/16		Howard Johnson	Y		1		furnace	below victim's room	EMS called for ill guest; rescue crews found a man "unconscious and vomiting in a stairwell"; CO alarms on EMS bags alerted to high levels of CO; CO levels of 400ppm - highest level was found in room of ill guest, located above the "furnace room"; hotel reportedly equipped with CO detectors but unclear whether they alarmed	
# #	MI	Warren	7/25/16		Hawthorn Suites by Wyndham	Y		2		boiler		A couple and their dog were found unconscious in their room by hotel housekeeper; CO levels of 439 ppm were detected; cause of CO reportedly associated with boiler and "melted pipes and wires"; quote from fire commissioner: victims "reportedly check out at 11:30am and were found when an employee later went to clean the room...the husband went down and checked out...went back up to the room to get his wife. For whatever reason, we don't know if he became disoriented, he decided to lay down also. If he hadn't checked out, and the maid hadn't gone to his room, we would have been looking at a tragedy."	
# #	NC	Morganton	8/17/16		Comfort Inn	Y						"a hot water heater caused a sprinkler to go off in a room that houses the hotel's electrical equipment" - first responders detected "high levels" of CO on every floor and evacuated building	
# #	MA	Andover	8/26/16		LaQuinta Inn and Suites	Y						CO alarm sounded, Fire Dept responded and evacuated hotel; CO levels measured at over 100ppm in laundry room; "Columbia Gas has determined what appliances caused the high levels of CO to be emitted and have subsequently shut them down. The gas inspector is on scene to determine how to best replace the problematic units."	
# #	NJ	Bridgewater	9/8/16		Days Inn	Y		1		water heaters		hotel evacuated after CO alarm sounded; "hotel employees went door-to-door to make sure all of the rooms were cleared"; 1 firefighter hospitalized due to CO; "firefighters discovered that water heaters were to blame for the elevated CO. PSEG was called in to cap the heaters"; hotel was issued a violation	
# #	MA	Springfield	10/18/16		Marriott Hotel	Y				boiler		two floors evacuated after "unsafe" levels of CO related to a malfunctioning boiler; approximately 50 guests evacuated from sixth and seventh floors; CO levels measure at 3000 ppm on both floors	
# #	DE	Dover	11/5/16		Home2 Suites by Hilton	Y						Fire Dept responded to a CO alarm, found elevated CO levels on 4th floor - pulled fire alarm to evacuate hotel; on further investigation found "dangerously high levels in the pool heater room"; another leak found in utility area at opposite end of building	
# #	CO	Durango	12/20/16		Residence Inn	Y		2	2 injured	pool boiler		Fire Dept responded and evacuated hotel; 2 boys who had been playing in pool area were hospitalized for CO poisoning; some hotel staff experiencing headaches; source of CO determined to be pool boiler, "the owners intend to replace the entire boiler unit"; "They did have carbon monoxide detectors throughout the hotel, but unfortunately, the one in the pool area was defective"	
# #	NC	Asheville	12/23/16		Clarion Inn	Y				pressure washers	outside hotel	Fire Dept called to hotel at 2:15am for high levels of CO, evacuated building; CO caused by hotel staff using gas powered pressure washers outside building - the "HVAC system sucked the carbon monoxide into the building"	
# #	WI	Lake Delton	12/28/16		Sunset Bay Resort					water heater	basement	CO alarm went off and guests evacuated without incident; "Fire officials said the incident is a good reminder to businesses and homeowners to install and regularly test CO detectors in any place where there are gas fired appliances."	
# #	NY	Plattsburgh	1/7/17		Comfort Inn & Suites	Y				heating unit	neighboring restaurant kitchen	hotel CO alarm sounded about 4:00am and firefighters responded to hotel; found CO source to be malfunction of a heating unit in restaurant next door; the hotel's five rooms in the area of the restaurant were evacuated to lobby of hotel while firefighters investigated	

# #	TX	Corpus Christi	1/10/17		Omni Hotel			6		pool heater		victims were hotel staff who complained of lightheadedness and nausea, Fire Dept called and victims were transported to hospital; hotel was evacuated; high levels of CO found on lower floors; "Smaller levels of gas were detected on some of the hotel's higher floors, following the path of the elevator shafts"
# #	MD	Clear Spring	3/2/17		Sleep Inn & Suites	Y				pool heater		Ambulance crew called to assist a guest with a medical condition, their personal CO detectors alarmed alerting them to a CO leak that was subsequently traced to a propane pool heater
# #	MA	Mansfield	3/27/17		Holiday Inn	Y				pool heater		hotel evacuated and fire dept called when CO alarms went off around 6pm; CO levels measured at 800ppm on first floor; high CO levels detected in a mechanical room and on the first and second floors near and above the pool heater; "heaters for the pool and whirlpool were shut down and the cause is being investigated"
# #	MI	Niles	4/1/17	Bryan Watts, 13 (deceased)	Quality Inn & Suites	Y	1	13	1 deceased 6 injured	pool heater		a hotel employee discovered 6 children unconscious in pool area, EMS called and hotel was evacuated; 1 child found unconscious in a first floor room; CO levels measured at 800ppm ; additional victims were hotel staff and first responders; cause determined to be "a pool heater ventilation pipe disconnecting from the pool heater. This likely caused carbon monoxide to leak into an enclosed pool maintenance room. An exhaust system in the pool maintenance room vented out of the room and into the enclosed pool area."
# #	MD	Baltimore	4/8/17		Marriott Delta Hotel	Y		2			basement	Fire Dept called after CO leak detected in basement; hotel evacuated; two guests transported to hospital
# #	MI	Novi	4/26/17		Novi Oaks Hotel					pool heater		hotel worker ill and called 911; hotel was evacuated after Fire Dept detected high levels of CO; mechanical inspector determined "a pool heater had improper ventilation"
# #	AR	Bentonville	5/1/17		Holiday Inn Express	Y				"construction related issues"		Fire Dept called after CO alarms went off at hotel around 8am; hotel evacuated; source of CO was listed as "construction related" - hotel is "being renovated and a construction crew was putting a roof on the building"
# #	ND	Fargo	5/29/17		LaQuinta Inn and Suites	Y		11	2+ injured			9 y/o girl transported to hospital after getting sick in pool area, 10 other guests sought medical attention; Fire Dept responded and detected CO levels at 300ppm in pool area and hallways; cause not immediately apparent but pool heater suspected
# #	VA	Warrenton	7/24/17		Holiday Inn	Y						hotel evacuated due to "very high levels" of CO; Fire Dept "said the source of the carbon monoxide has been narrowed down to gasoline powered equipment"
# #	CA	Chico	7/27/17		Marriott Residence Inn	Y		2		water heater	next to victims' room	ambulance called for two guests experiencing headaches, dizziness and nausea - transported to hospital; hospital diagnosed CO poisoning and alerted fire dispatch; Fire Dept responded to hotel and evacuated remaining guests; CO levels in victims' room measured at 150ppm , in adjacent room that housed water heater levels measured 550ppm
# #	TX	Perryton	8/24/17	Patricia, 58, (deceased) & husband David Ivie, 62 (deceased)	Best Western	Y	2	5		pool heater	below victims' room	victims discovered unconscious in their room (217) by housekeeper - woman was on bed, man was on floor - both transported to hospital where they were diagnosed with CO poisoning; hotel evacuated, leading to discovery of additional victims; Fire Dept found "substantial levels" of CO in parts of the hotel; guests in another room located near 217 had taken the battery-powered CO alarm off the wall and placed it on the nightstand with a note stating the alarm went off at 3:30am and 4:30am and said the battery needed replacing; Patricia Ivie died from her injuries two months later, and David Ivie died of his injuries four months later; subsequent investigation showed the pool heater exhaust vented into an exterior wall space which, combined with an inoperable exterior exhaust fan, provided opportunity for CO to migrate up to guest rooms; investigation also showed corroded holes in the galvanized steel vent piping, pool chemicals stored in the pool heater room, and a boarded up fresh air intake for the pool heater room; subsequent air testing in room 217 with pool heater running demonstrated CO levels steadily increasing overnight
# #	NC	Fayetteville	11/7/17	Michael Brown (injured) & wife	Marriott Residence Inn	Y		3		water heater	first floor	Two guests woke up not feeling well and went to the hospital, found to have elevated levels of CO; hospital notified fire dept who evacuated hotel; victim Michael Brown said he began having symptoms the day before at hotel and collapsed, taken to hospital but released later and returned to his hotel room - CO poisoning not diagnosed until he collapsed again the following day, wife found him unconscious and took him back to hospital; they both were transferred to a nearby hospital for treatment in hyperbaric chamber; "Investigators said the hotel has carbon monoxide detectors, but they did not go off. Instead someone had to pull the fire alarm to evacuate guests." Cause of CO leak was determined to be a "malfunctioning water heater in a mechanical room on the first floor."
# #	WI	Madison	11/11/17		Doubletree Hotel	Y		8		pool boiler		Fire Dept responded to call for two guests who passed out in the stairwell by the pool; when they arrived, a CO sensor in their EMS bag began sounding; evacuated area and found CO levels at 150ppm in stairwell, 400ppm in pool room, and 2000-2500ppm inside boiler room for the pool; gas company determined "an exhaust pipe on one of the boilers had fallen off and was discharging exhaust into the room."
# #	TX	Temple	12/14/17		Hilton Garden Inn	Y		2				EMS called for two guests complaining carbon monoxide related symptoms, transported to hospital; firefighters "located and confirmed the source of the carbon monoxide"
# #	MD	Baltimore	2/1/18		Delta Hotel					underground electrical fire	near hotel	underground electrical fire in a manhole near the hotel; Fire Dept reported "high levels" of CO in the sub-basement of the hotel; "firefighters monitored all levels of the hotel with guests to ensure the levels of carbon monoxide were safe"
# #	NY	NYC-Manhattan	2/21/18		The Hotel on Rivington					underground fire		hotel and three neighboring buildings evacuated due to CO created by "manhole fires"; CO levels measured at 1400ppm

# #	TX	Austin	2/21/18		Fairmont Hotel				2		oven	kitchen	hotel new and set to open in next few weeks; Fire Dept called to hotel for reports of a gas leak; found "high levels" of CO on first seven floors and evacuated workers; CO related to pizza oven in hotel's kitchen, "An exhaust system had failed, forcing the harmful gas to recirculate into the hotel's air conditioning system"; 2 hotel workers hospitalized
# #	MO	Watford City	3/10/18		Little Missouri Inn & Suites				3	3 injured	pool heater		911 called for children in pool area having difficulty breathing; Fire Dept responded and determined CO exposure resulting from "a malfunction in the pool mechanic room ventilation system"
# #	CO	Denver	5/22/18		Aloft Hotel (Marriott)	Y			18				Rescuers called to hotel when a CO alarm went off (news article does not reference if it was hotel alarm but a reader comment states "The hotel did not detect the carbon monoxide, hotel guests did with their own equipment"); hotel evacuated, victims transported to hospital by ambulances and a hotel van
# #	NH	Windham	6/4/18		Manor Motel - extended stay						furnace	mouse nest in exhaust pipe	motel manager quoted, "We had a carbon monoxide detector in the basement, in the laundry area...and the alarm was going off and one of the guests was nice enough to call me and tell me that she could hear..an alarm going off"; motel fully occupied and approximately half were evacuated due to leak; fire dept detected 2000ppm near the exterior of ventilation system and elevated levels inside some rooms; mouse nest discovered in exhaust pipe; "technician cleaned out the system and was working on replacing the piping going out of the building"
# #	VA	Hampton	6/6/18		Quality Inn	Y					water heater		firefighters responded and evacuated building
# #	TX	San Antonio	7/24/18		Comfort Suites	Y			12		water heater		911 call at 1:40am for "a group" reporting they were ill from food poisoning; additional call for a second family with same symptoms prompted firefighters to check air quality; "found an exhaust pipe on a water heater that was disconnected and the exhaust was being sucked up by the room handlers"; "Investigators at the scene told reporter that the hotel did not have carbon monoxide detectors as local rules do not require it in hotels or motels"
# #	IA	Ankeny	7/28/18		Fairfield Inn & Suites by Marriott	Y			3				One of three victims staying in same room was ill with dizziness and nausea, called for ambulance at approx 2am; emergency responders arrived and found all three victims ill, detected CO levels at 500ppm; additional ambulances called, hotel evacuated; gas company response; source of CO "faulty venting from the laundry"
# #	CO	Longmont	10/29/18		Super 8	Y			1		water heater	boiler room	Fire Dept responded to 2am call for guest who was feeling ill, transported to hospital where guest was "eventually" diagnosed with CO poisoning - hospital notified fire dept who then returned to the hotel and evacuated guests; high levels of CO found throughout building
# #	NC	Jacksonville	11/2/18		Holiday Inn Express	Y			16	1 injured			police called to hotel around 3am for a strange odor, discovered high levels of CO and evacuated building; guests included victims of Hurrigan Florence who had been displaced from their homes as well as federal employees in town to help hurricane victims
# #	TN	Nashville	11/7/18		Westin	Y			14		heater		front desk called 911 when multiple guests from gym on third floor complained of feeling ill; firefighters responded and evacuated third and fourth floors of hotel; Fire Dept detected CO levels at 500ppm on the third floor; "A state ordinance, adopted by the city, only requires carbon monoxide detectors on floors where guests sleep. The third floor only housed a pool and the workout room."
# #	CO	Boulder	11/18/18	Raymond & Bettyjune Clark (both injured)	Hyatt Place Boulder	Y			2		boiler		victims checked into hotel on 11/10 and during 8-day stay were ill with bouts of vomiting, nausea and fainting; visited nearby emergency room four times during the week; leak discovered when victims were diagnosed with CO poisoning - hospital contacted Fire Dept. who then evacuated hotel; CO levels measured 50ppm in lobby, 2nd-5th floor rooms had levels "up to 200ppm", 500ppm in boiler room; "maintenance engineer of the hotel initially told firefighters the hotel did not have any gas feeds to the hotel, but firefighters said there was a gas-fed boiler room that was the source of the carbon monoxide"; "fire department also directed the hotel to contact guests who had been staying at the hotel in the three days leading up to the evacuation to determine if any of them had symptoms"
# #	MA	Foxborough	12/17/18		Renaissance Patriot Place Hotel	Y			1		boiler		CO detectors alerted staff to elevated CO levels; 60-70 guests and employees were evacuated from building by fire dept; "airing-out process took a while because the windows at the hotel do not open"
# #	NY	Syracuse	1/1/19		Genesee Grande Hotel				5		boiler		CO alarm on first floor went off, manager "then went to the carbon monoxide reader in the basement and called 911"; Fire Dept. responded and evacuated "19 occupied rooms"; source of CO leak listed as "a faulty heating boiler"
# #	MI	Charlevoix	1/1/19		AmericInn	Y			12		pool boiler		Fire Dept called to hotel for high carbon monoxide levels in the pool area; pool had no CO detector but when guests complained of feeling ill, staff brought one from another area - it alarmed and they called 911; CO levels measured at 90ppm in pool area; users of pool were guests and community members, hotel had opened pool up for community use to celebrate New Year's Day
# #	CO	Aurora	1/29/19		Gaylord Rockies Resort & Convention Center				2			boiler room	Fire Dept responded to report of high levels of CO at convention center; according to hotel spokesperson, "high carbon monoxide levels were determined to be related to work taking place on the property...in the boiler room"

# #	CO	Aurora	1/30/19		Gaylord Rockies Resort & Convention Center						boiler room	Fire Dept responded to reports of high levels of CO in same area as previous day (see previous case); no injuries reported	
# #	TX	Waller	1/?/2019		Holiday Inn Express & Suites	Y		1				U.S. Dept of Labor OSHA "investigated a January 2019 incident in which the employee told the employer their concerns about carbon monoxide exposure in the workplace. The employee also told the employer they felt ill and requested medical attention, but the employer refused to call an ambulance. The employee was terminated after they went to the hospital. The U.S. District Court for the Southern District of Texas signed a consent judgment on Nov. 5 (2021) in which the company and owner will pay \$3750 in back wages and \$3700 in compensatory damages to the former employee..."	
# #	NJ	Carneys Point	2/15/19		Friendship Motel Inn			7				Authorities responded to hotel for a deceased child "who was 7 or 8"; police suspected CO poisoning and evacuated building; a family of 6 had elevated levels of CO in their blood and were taken to the hospital, a 7th guest had elevated levels but declined treatment; medical examiner ruled out CO poisoning as cause of death of child because "the child had been being treated for an infection prior to her death"; "The only source of gas in the motel was its gas hot water heater in the basement...but readings in the basement showed no excess carbon monoxide...it's possible a resident was cooking in a room"	
# #	SD	Pierre	3/15/19		Baymont Inn & Suites					furnace		Fire Dept responded at 3:24am after CO alarm alerted hotel staff; evacuated building; CO levels measured 40-60ppm , "extremely high" levels in fitness room; cause determined to be "a gas burning furnace whose exhaust outlet had been blocked by snow...a drift had covered up the vent"	
# #	MA	Saugus	4/7/19		Holiday Inn Express	Y						Fire Dept responded, hotel evacuated	
# #	VA	Norfolk	4/7/19		Quality Inn Suites	Y		1		pool heater		Fire Dept called at 7:25pm for report of a CO leak, first floor evacuated	
# #	NE	Omaha	5/10/19		Comfort Inn Suites	Y						Fire Dept responded, hotel evacuated	
# #	WY	Gillette	5/12/19		Travelodge by Wyndham	Y				water heater		Fire Dept responded "for a carbon monoxide detector activation...determined there was a malfunction with the water heater for the laundry facility"	
# #	PA	Erie	5/25/19		Days Inn	Y		2				Fire Dept evacuated hotel around 5pm; one victim found unresponsive	
# #	TX	Canyon	6/5/19		Best Western Palo Duro Canyon Inn & Suites	Y					boiler room	approximately 7:20pm hotel guest called Fire Dept "concerned of possible gas leak or carbon monoxide exposure"; CO levels measured at 25-35ppm in hallways; "possibility of the vent fan in the boiler room not working properly causing carbon monoxide to be circulated back into the building"; gas shut off until it could be "green tagged by city officials"; sprinkler and alarm system had not been inspected since 2017	
# #	MT	Butte	7/13/19		Quality Inn Hotel & Suites	Y		23		pool boiler		Ambulances responded to hotel at 7:30am after reports of three people ill with symptoms including "throwing up, red skin, dizziness and headaches"; "(victim) says guests weren't alerted with carbon monoxide alarms"	
# #	NY	Brooklyn	7/17/19		Insignia Hotel					transformer fire	manhole near hotel	hotel guests evacuated by Fire Dept at approx 10pm due to "a smoking manhole outside which caused high carbon monoxide levels inside the hotel" (spokesperson for power company); according to one guest, "We heard fire alarms, we saw the fireman outside. They weren't really doing anything until a few hours later when the carbon monoxide started coming in, and then they started to evacuate us"	
# #	MI	Warren	7/27/19	Leslie Lienemann & son Jeff Lienemann (both injured)	Hawthorn Inn & Suites by Wyndham	Y		2				previous incident of CO poisoning at this hotel (see case #2016-0725WI); victims experienced multiple episodes of headaches, dizziness, nausea and vomiting over two day stay in room; on third day they drove to emergency room and were diagnosed with CO poisoning; ER physician alerted Fire Dept who responded and evacuated hotel	
# #	FL	Estero	7/27/19		Hilton Garden Inn	Y				boiler		Fire Dept responded to a "gas alarm" and evacuated hotel	
# #	SC	Myrtle Beach	8/26/19		Hampton Inn	Y						Fire Dept called to hotel for "reports of a carbon monoxide leak"; elevated levels of CO found on all floors, hotel evacuated; highest reading at 100ppm ; according to Fire Chief, "work was being done on the laundry machines and that may have been the cause of the carbon monoxide leak...maintenance crews would have to find and fix the leak"	
# #	SC	Myrtle Beach	9/10/19		Hampton Inn	Y						(second response to this hotel - see above) Fire Dept responded to hotel at 9:50am and found elevated CO levels at 100ppm ; "(gas company) is taking a closer look at what the root of the issue is...say the hotel did make repairs after the last leak, and it's still unclear if the two events are related"	
# #	OH	Columbus	9/17/19		Home2 Suites by Hilton	Y		2		gas saw		2 victims hospitalized; CO exposure due to "a worker using a gas saw in a confined area"	
# #	IL	Chicago	11/?/2019	Luke Gawne & Erica Fumo (both injured)	Waldorf Astoria			2				victims felt ill a few hours after checking in; at 3:30am CO alarm in their room alarmed - they notified front desk who sent a "building engineer" to room; engineer told them, "It happens every night. I mean it just happens. It's carbon monoxide buildup. So they say just leave your door open" (conversation recorded on victim's phone); victims called fire department, went to emergency room and were treated for CO poisoning	
# #	ND	Mandan	11/29/19	hotel employee, 59 (deceased)	Baymont Inn & Suites	Y		1			pool equipment room	according to OSHA report, "At 8:00am...employee was working in the pool equipment rooms and was found unresponsive on the floor. The medical examiner listed the cause of death as asphyxiation due to carbon monoxide poisoning."	

# #	CA	Hemet	11/29/19		Coach Light Motel		2		heater	room	man and woman discovered deceased in room at approximately 1:00pm by motel employee; "Emergency responders found very high levels of carbon monoxide inside the room...officials found the room's heater still running and may have been tampered with by occupants prior to their deaths"
# #	NY	North Syracuse	12/21/19		Candlewood Suites	Y					guests evacuated when fire dept arrived to hotel around 8:45pm and found "high levels" of CO in the building due to a "mechanical issue"
# #	NH	Keene	1/15/20		Courtyard by Marriott	Y			boiler		hotel staff alerted by CO detector; per Fire Dept, utility company "which supplies about 1300 customers in the city with natural gas, reported a problem with its gas delivery...it was sending out the wrong mixture of gas...mix could lead to carbon monoxide leaking into homes and businesses...appears to have been a mechanical failure with the mixing equipment"
# #	FL	South Beach	1/16/20		Shore Club hotel		17		pool pump		9 of the victims were hotel workers; according to the Fire Dept, "Crews responded to an incident...with a water leak in the pump room. After the water pump was shut off, prior to our arrival, high levels of carbon monoxide were detected in the immediate area"; "pump runs on diesel fuel; 6-8 rooms were evacuated; 6 victims transported to hospital with hyperbaric chamber"
# #	PA	Buckhorn	1/30/20		Comfort Suites	Y			boiler	maintenance room	hotel staff not feeling well and called 911 around 8:00pm; Fire Dept responded and discovered an activated CO alarm in the maintenance room; hotel evacuated; according to Fire Chief, "firefighters found a high level of carbon monoxide in the maintenance room" and "discovered an exhaust pipe for a boiler had separated and released carbon monoxide in the hotel"; "After firefighters found the source of the carbon monoxide, they aired out the building and called in hotel maintenance to make repairs...(guests) were allowed back in around 9:20pm"
# #	MT	Helena	2/6/20		Jorgenson's Inn & Suites		7		pool heater	basement	guest called 911 after their child became ill around 8pm; Fire Dept discovered high levels of CO and evacuated hotel; hotel manager said plug-in detectors had been installed after fire inspection last year but didn't realize until this incident that the detectors had been stolen, said they would now install hard-wired system
# #	VT	Rutland	5/14/20		Quality Inn	Y			power washer	pool	hotel evacuated after high levels of CO produced by gas-powered power washer being used to clean pool; CO levels measure at 500ppm in pool area, 300ppm in multiple guest rooms; 64-room hotel, "most or all of which were occupied by multiple people"; hotel was being used to house COVID-19 essential workers and "vulnerable population"
# #	TX	Lubbock	5/19/20		Comfort Suites	Y					fire dept responded to hotel "after reports of a commercial alarm down but escalated to an emergency after reports of carbon monoxide"; CO levels measured at 130ppm; hotel evacuated and natural gas shut off
# #	KY	Florence	10/12/20		LaQuinta Inn and Suites	Y			pool heater		Fire Dept responded to call for a person ill in the pool area, arrived and were alerted to high levels of CO in the pool area; hotel evacuated and leak traced to the swimming pool heater
# #	OH	Columbus	2/23/21		Days Inn	Y					Fire Dept responded to report of an "incident" at hotel and found "high CO readings"; manual fire alarm pulled to evacuate all occupants
# #	OH	Cuyahoga Falls	5/2/21		Sheraton Suites	Y	4		boiler	flue motor failure	Fire Dept responded to a call at 11am "for a room full of guests that were having a hard time waking up"; elevated levels of CO found on all floors, hotel evacuated; "leak was coming from a boiler, which was pushing the gas through the HVAC system"; hotel manager stated the hotel had "a plug-in carbon monoxide monitor where the malfunctioning boiler was located" but after incident, hotel decided to install hard-wired CO detectors in each of the three boiler rooms which would be connected to the building's fire protection system so that "an audible alert will be sent to a panel at the front desk...this system is already used to notify employees about a smoke detector alarm sounding in any of the rooms"; it was noted that the boiler had passed a recent inspection, "There was just a system failure that caused the issue"
# #	VA	Williamsburg	5/29/21		Embassy Suites by Hilton Williamsburg	Y	6				"Firefighters say there were high levels of carbon monoxide and natural gas in the hotel that required guests to be evacuated"
# #	MS	Gulfport	6/3/21		Comfort Inn & Suites Crystal Inn Sportsplex	Y	5				fire dept responded to report of multiple guests ill around 12:30pm; pulled fire alarms to evacuate hotel; cause determined to be "a customer equipment issue"
# #	NY	Queens	6/11/21		Crowne Plaza Hotel JFK Airport	Y	1				around 9:53am 9-story hotel evacuated; CO levels at 100-200ppm throughout building; power shut off to building at 11:23am; injured victim was member of EMS team
# #	OH	South Point	6/11/21		Country Hearth Motel				water heaters		building ordered evacuated and closed after unvented water heaters "released carbon monoxide into the motel;" motel noted to be used as housing for "a number of families in recent months;" motel officials given 30 days to make repairs
# #	NJ	Morristown	6/22/21		Westin Governor Morris	Y			boiler		fire dept responded; partial evacuation; "officials located readings on all floors and secured issues with the boiler"
# #	IL	Paris	6/25/21		Hampton Inn	Y				laundry room	Fire Dept responded to an activated CO alarm at 4:48pm; "problem was found in the laundry room"

# #	ME	Freeport	6/29/21		Comfort Suites	Y		4	1 injured	water heaters	utility room 1st floor	CO leak discovered by hotel maintenance worker on 6/28/2021 when a CO alarm went off in a room next to the water heaters, however worker did not call 911 but instead left a message on fire dept's voicemail resulting in an overnight delay in emergency response to the hotel; CO levels measured at 675ppm in hallway, 175ppm in lobby; hotel evacuated by pulling fire alarm; victims included two adults and a child who were staying in a room next to the water heaters; "Choice Hotels International released a statement....'We take these situations seriously and require all franchisees to comply with local, state and federal laws;' hotel remained evacuated while water heaters were repaired; "Some rooms in hotel do not have carbon monoxide detectors, (fire chief) said, but he also noted the building is under renovation and additional detectors are being installed"
# #	MI	South Haven	8/10/21							water heater	detached exhaust pipe	fire personnel responded to activation of a CO alarm, on arrival detected 10ppm in hallway and initiated evacuation; room with highest level of CO at 150ppm led to discovery of detached exhaust pipe for water heater; "This incident is a very good example of the importance of fire code inspections,' (emergency services director) said. 'Smoke alarms, CO alarms, exit signs are all on a long list of items to be inspected in a commercial building...(hotel) was inspected in early June 2021. If CO alarms were not present or not operating properly this incident could have surely proven fatal.'; "(emergency services) withheld the name and address of the hotel to preserve anonymity"
# #	NJ	Budd Lake	1/2/22		Days Inn	Y		1				at around 12:13am police responded to "a caller's contention that multiple fire/carbon monoxide alarms had gone off inside the building over several hours...but residents were advised by management that the alarm batteries were being changed and there was no issue within the building"; fire dept responded and "discovered elevated carbon monoxide levels coming from the third floor"; hotel manager was arrested and charged with reckless endangerment for placing guests in "imminent danger and failing to contact the police and fire department when the alarms were activated"
# #	OH	Marysville	1/29/22		Hampton Inn	Y		14	6 injured	pool heater	pool heater malfunction due to plastic bag blocking fresh air intake	At around 5:30pm fire dept called to hotel for report of unconscious 2 y/o in pool area; subsequent calls to 911 for other unconscious victims in pool area; victims also reported symptoms of burning throat and dizziness; hotel evacuated and closed x2 days; CO levels in pool area and first floor measured at 1300ppm, second floor 600ppm, third floor 500ppm; followup investigation "found a plastic bag blocking the fresh-air intake in the pool heater room may have caused the heater to malfunction...the carbon monoxide detector in the room was not working;" hotel was cited for an expired building permit; pool had been closed by the health department in mid-December and "repair work on the pool heater had been done as recently as Thursday (two days prior to incident);" child victims included members of a youth wrestling team in town for a league championship
# #	KY	LaGrange	2/4/22	Stacey Barta, 40, & John Paul Needy, 39 (both deceased)	Quality Suites	Y	2	1				At approx 5pm, EMS called to hotel for report of two individuals found unconscious; on arrival victims found to be deceased; CO suspected, hotel evacuated; "For hours, police and firefighters...weren't able to go inside because carbon monoxide levels were too high;" hotel reopened around 9pm same day
# #	FL	Deerfield Beach	2/17/22		Fairfield Inn & Suites	Y		1				50-75 guests evacuated from hotel; one person transported to hospital
# #	FL	Lakeland	3/13/22		Sleep Inn & Suites	Y		8	4 injured	water heaters	vent pipe disconnected	At approx 11am Fire Dept responded to hotel for report of a "hazardous condition...multiple people affected" who had told hotel manager they were feeling ill and there was a "strange odor" in their room; "Firefighters say the source of the CO was found in a room containing the commercial water heaters. The venting pipe system was disconnected and the reported CO level there was 550ppm...hotel rooms belonging to guests on the second floor produced CO readings of 160ppm"; hotel reportedly not required to have CO detectors because of its age; "Sleep Inn and Suites declined to comment, but on Wednesday, plumbers hired by the company say they were replacing water heaters."
# #	OK	Catoosa	3/16/22		Hampton Inn	Y		3		water heaters	bird's nest plugging outside vents	victim (room #205) discovered by coworker and hotel staff on floor of guest room unconscious when he failed to show for a business meeting; initial dispatch was for "possible heart attack" but fire/paramedics noted they had subsequently responded to the same room two times prior for similar reports so arrived with a CO monitor which displayed a reading of 764ppm on entry to the room; hotel evacuated; investigation in a "downstairs" utility room containing hot water heaters found CO levels at 1500ppm, "two flue pipes that were off and a safety switch bypass on the hot water heaters...also found the two outside vents were plugged up on the outside from birds' nest"; "fresh air vents and exhaust vents had been hooked up backward by a plumber that wasn't licensed or insured and didn't have a permit"; victim "says he woke up in the middle of the night not feeling well and went down to the lobby and told the hotel staff something was wrong with his room, but, he says they told him everything was fine"
# #	NH	Bow	7/12/22		Hampton Inn	Y				furnace		around 8:30pm fire dept responded and hotel evacuated after "elevated levels of carbon monoxide triggered alarms"; "Guests spent a couple hours outside while fire department personnel went through building. 'We had to evaluate five or six individuals, but nobody was transported to the hospital,' the chief said. 'Everybody was fine.'"

# #	AR	Eureka Springs	7/15/22		Stonegate Lodge			14	4 injured	boiler	faulty vent	Fire Dept responded to hotel around 7am when guests became ill; according to the Fire Chief, "10 of those people went to hospitals...four were in critical condition and were transported by helicopter to hospitals (in) Fayetteville, Rogers, and Springfield, MO"; Fire Marshal said "it is believed the carbon monoxide came from a faulty vent on the boiler system for hot water"; Emergency Room Director reported "some of the patients were walk-ins, and the rest were brought to the hospital by (EMS)...to treat all the patients, two respiratory therapists and four nurses were called in for additional help"; hotel was closed until repairs could be made; owner stated hotel was purchased one month ago
# #	CO	Denver	8/30/22		Cherry Creek Double Tree by Hilton	Y				boiler		Fire Dept responded; both towers of hotel evacuated for "issue with the boiler"
# #	GA	Helen	10/21/22		Holiday Inn Express	Y						Fire Dept responded around midnight to report of activation of a CO alarm and found "a significant reading of carbon monoxide on the first floor"; building evacuated; source of leak identified and "after about 30 minutes, firefighters rechecked the hotel with a gas monitor and noted that levels had dropped to a safe level. Hotel guests were then allowed to return to their rooms"; according to the fire chief, "no guests or employees were injured and no one reported feeling sick as a result of the incident."
# #	ID	Sandpoint	10/?/2022		White Pine Lodge at Schweitzer			4		boiler		Two of the victims were employees; a new boiler system had recently been installed, which first responders determined to be the source of the leak
# #	MI	Ann Arbor	11/28/22	Charles Suire, 49 (employee)	Victory Inn			1		boiler	roof vent blocked	<p>victim was maintenance worker at hotel, discovered deceased in boiler room where CO levels measured in excess of 1000ppm; "ventilation to the boiler room was blocked by a fallen sheet of steel on the roof"; surveillance video showed victim entering the boiler room at 3pm on 11/27 but was not discovered until after 12:30pm the following day when family reported him missing</p> <p>8/22/2023 - Michigan Occupational Safety and Health Administration (MIOSHA) "issued the maximum penalty allowed under law...totaling \$155,600 in penalties against US 23 Lodge LLC, which operates the Victory Inn and Suites";</p> <p>Willful-Serious Violations:</p> <ul style="list-style-type: none"> - "...maintenance employee working in the establishment's 3rd floor boiler room was exposed to an airborne concentration of carbon monoxide in excess of the 8-hour time-weighted average (TWA) limit of 35 parts per million (ppm) and in excess of the ceiling limit of 200 ppm" - "An employee (the deceased) tasked with the operation and maintenance of the establishment's third-floor boiler system was not given employer-provided training regarding the operation, hazards or safeguards associated with boiler heating systems and their operation." <p>Serious Violations included:</p> <ul style="list-style-type: none"> - "...the roof-top exhaust discharge location of the third-floor boiler system was obstructed with a metal sheet, a condition that permitted combustion exhaust gases containing carbon
# #	CO	Aurora	12/20/22	employees	Gaylord Rockies Resort & Convention Center			7		cooking equipment		victims were all hotel employees; fire dept responded around 5pm to complaints of "several people who were feeling sick"
# #	TX	San Antonio	1/11/23	guests and employees	Hotel Emma			15		fireplace		victims included both guests and employees; ambulance called to hotel around 11am "in response to a person complaining of nausea and a headache. When medics arrived, several other people started complaining of the same symptoms"; hotel evacuated and shut down overnight; the cause of the high CO levels was not determined "but it could have been a perfect storm of a smoldering fire, high humidity and low air flow. The problem could not be duplicated." "Further investigation revealed that an update to the carbon monoxide alarm code requirements in March 2012 were missed during the permitting process for Hotel Emma later that year. Those same requirements were missed again in 2018...the requirement was not caught during the plan review...alarms were then immediately installed by the hotel and were inspected before people were allowed back into the building."

# #	KS	Lawrence	2/13/23	employees	Oread Hotel			4		laundry room	fire dept responded to hotel around 2:30pm for a "carbon monoxide emergency with illness" and a CO alarm sounding in the laundry room; hotel evacuated; "problem was fixed by a technician who was already on site"
# #	TX	San Antonio	2/24/23		Hampton Inn & Suites San Antonio Riverwalk	Y		5	pool heater	gym/exercise room	fire dept responded around noon "for reports of a person down...(on arrival) found several people with medical issues consistent with carbon monoxide poisoning"; high levels of CO detected, hotel evacuated; victims were all in the gym when they reported symptoms of CO poisoning; "CO alarms were present in some areas of the hotel"
# #	NY	Shelter Island Heights	5/26/23		The Chequit						Fire Dept responded to a call of "leaking gas" around 9:30pm; staff had evacuated guests; "...high readings of CO on second and third floors of the hotel and an extensive search was made to locate the source of the gas"; "All guest room windows were opened. 'We cleared the CO out and everyone got back in,' the chief said, with the suggestion given to guests that they leave their windows open a crack."
# #	NY	Shelter Island Heights	5/28/23		The Chequit						"...at 9:10am according to police reports, the CO alarm activation went off again and the hotel guests were evacuated. The Fire Department confirmed the presence of CO throughout the building. Shelter Island Building Inspector responded and delivered a Notice of Violations and Order of Remedy (which) shut down all mechanical equipment, including hot water and gas stoves...department is awaiting an engineer's report on the source of the problem before further action is taken."
# #	IA	Cedar Rapids	7/8/23		Motel 6	Y			dryer	clogged lint trap	Fire Dept responded at 10:14am to reports of a "possible gas leak" in the building and were told by utility crews the source had been identified and fixed; Fire Dept called back to the building at 1:44pm for reports of guests feeling ill, building then evacuated; room by room search to ensure everyone evacuated safely; "A clogged lint trap was discovered in a dryer in the building's laundry room, which was blocking carbon monoxide produced by the machine from leaving through the exhaust pipe and instead was leaking into the laundry room."; two-story motel, built in 1977, 100 guest rooms
# #	MA	Boston	7/25/23		DoubleTree by Hilton	Y			utility room		Fire Dept responded around 10pm to report of a CO alarm going off; "high levels" of CO detected throughout the building, full evacuation of over 500 guests from all 267 guest rooms; utility room identified as the source of the CO and power was shut off to that room; guests allowed to return to their rooms shortly after midnight; "(Fire Dept spokesperson) said he did not know whether the underlying cause of the leak was fixed permanently"
# #	CA	Santa Cruz	9/9/23		Aqua Pacific Inn			2	water heaters	faulty ventilation system	Fire Dept responded to hotel around 11:15pm for a medical emergency and found two people suffering from similar symptoms, immediately taken to the hospital and treated for CO poisoning; CO detected in several areas of the hotel; hotel evacuated, 14 rooms/25 people; "firefighters discovered carbon monoxide had been leaking into an unoccupied hotel mechanical room and spreading to the building's east wing"; "...source was traced to a faulty ventilation system attached to a bank of hot water heaters. Firefighters ventilated the affected areas before returning the building over to its owner."
		Total # of incidents	404			Total # deaths (includes children)	166		Total# injured (includes children)	2508	
								Total # child deaths	26	Total # children injured	229

Please help protect others by sharing this information

CO exposure limits
(over an 8-hour time-weighted average)

Be informed

To date, there is no federal requirement for the installation of carbon monoxide alarms in hotels. Only 14 states require installation of CO alarms in hotels under statute [Carbon Monoxide Detector Requirements, Laws and Regulations \(ncsl.org\)](#). There currently are no federal requirements for carbon monoxide education and/or training of hotel owners and staff. No federal agency tracks CO incidents in U.S. hotels.

Be aware and be safe when traveling

Know the symptoms of carbon monoxide poisoning (you can't see it, smell it or taste it) and always carry your own carbon monoxide alarm when you travel. Alarms are sold online and in most home improvement stores. Look for UL 2034 mark on the packaging to ensure the alarm you are purchasing meets U.S. safety standards for protection from high levels of carbon monoxide. *To safeguard against exposure to lower levels of carbon monoxide, look for CO monitors that display all levels of CO in the environment and can be adjusted to alert at any level* ([Comparison of four low-level carbon monoxide alarms suitable for home use or when traveling](#))

About this database

This is not an all inclusive list of hotel/motel CO incidents, these are only the cases that had an associated media story or were otherwise noted in a publicly accessible document online. Those marked with * are courtesy of Dr. Lindell Weaver, author of [Carbon Monoxide Poisoning at Motels, Hotels, and Resorts - ScienceDirect](#) (2007, American Journal of Preventive Medicine). Cases, both old and new, are added as they are discovered.

Additional resources

[Carbon monoxide poisonings in hotels and motels: The problem silently continues - ScienceDirect](#) (2019, Preventive Medicine Reports) - collective published data on U.S. hotel CO incidents, 1989-2018.

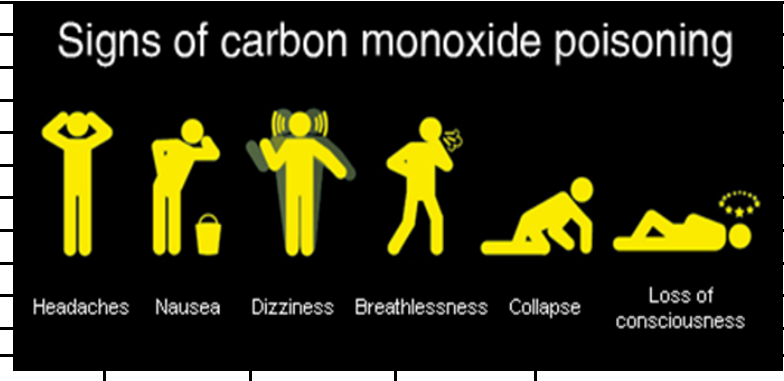
[Analyzing the National Fire Incident Reporting System to Identify Carbon Monoxide Incidents in the U.S. Lodging Industry](#) (2021, Preventive Medicine Reports) - a comparison between this data and U.S. fire department data which documents 3400+ hotel CO incidents 1999-2018

[Carbon Monoxide Detection and Alarm Requirements: Literature Review \(nfpa.org\)](#) (2021, NFPA Fire Protection Research Foundation)

[Carbon Monoxide Incidents: A Review of the Data Landscape \(nfpa.org\)](#) (2022, NFPA Fire Protection Research Foundation)

For more information on hotel CO incidents visit [Hotel Incident Data – The Jenkins Foundation](#)

Daryl & Shirley Jenkins Foundation | www.thejenkinsfoundation.com



OSHA: 50ppm
Occupational Safety and Health Administration

NIOSH: 35ppm
National Institute for Occupational Safety and Health

ACGIH: 25ppm
American Conference of Govt Industrial Hygienists

WHO: 9ppm
World Health Organization