		Building Name Address	(as j	Jse ber FSA ed Table 1)	Date and Time of Incident		Structure and Stories Area		Extent of Damage (Damaged Area/ Total Area)		No. of Casualties
-					March 11, <sup>2</sup>	966	Fire resistant Partially		All, <u>Half</u> ,		
		Kikufuji Hotel		•	Breakout 03:40 (app		wooden 3 stories above ground		All, <u>n</u> Partial, 2,640	Small	Fatalities 30
				lotel 5) a	Notified at ( Notified		and 1 b Building		(Sprea adj. bui	id to	
		750 Yuhara	·		subscrib telephor	ed		32 m <sup>2</sup>	1650 auj. bui		Injured
		Minakamimachi Tonegun, GUNM			Extinguishe		Gross F Area		(35%	6)	29 ()
	Summa	ry of Fire Incident					/,46	65 m <sup>2</sup>			·
(1) Summary	This fatal fire occurred during Fire Prevention Week and 33 hotel guests were killed. A security guard accidentally knocked over a heater and the fire quickly spread and engulfed the building. Although the hotel had a complete set of firefighting equipment, none of equipment was effectively used and the evacuation was poorly handled.										
(2) (	FL	Gross Area	Damaged Area	Use (Purpose	No. of persons		No.of atalities		escape pment		refighting quipment
(2) Conditions per Floor	*Embroiled building Hotel H (2-story wooden building, 3-story wooden building, all destroyed (total of 1,650 m <sup>2</sup> )) Old building (1 set of inside stairs (B1 to 3rd floors) 1 set of indoor fire								of fire uishers of indoor fire		
Floor		2-story wooden building, all destroyed 2-story wooden building, partially destroyed 1-story wooden building, all destroyed	4 building 1240 m²		130		0	<ul> <li>1 set of exterior stairs (1st to 3rd floors)</li> <li>Fixed ladders (2nd and 3rd</li> </ul>		hydrants Automatic fire detection system 2 sets of guide lights on the 1st	
	New (fire-resistive) building (Skylight Garden)					floors)		floor			
	3	405		Guestroo Bath hous	se 43		16				
	2	405	1,400	Guest roo Bath hous	se <sup>40</sup>		14				
	1	689		Lobby, Fro desk	(4)						
	B1	239		Banqueth							
	Sub	7.645	0640		87		20				
	Total	7,645	2640		217		30				

(3) Origin of Fire	<ul> <li>(Floor, Room, Part, Combustibles, Habitable/Non-habitable Rooms, Present/Absent</li> <li>The fire started in the security guard office.</li> <li>The security guard office (5.5 m<sup>2</sup> approx.) consisted of a tile floor with one tatami mat on two sides, plywood walls and ceiling. There was a pile of combustibles including a cardboard box and newspapers present.</li> <li>A security guard was resting in the room.</li> </ul>	(4) Cause of Fire	The security guard fell asleep while a kerosene heater was on, and he accidently knocked it over, which caused the kerosene to ignite.
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(5) Fire Propagation Path	Source)Source)AFrom the security guard office on the 1st floor of the new buildingFrom the kerosene of the stove to a cardboard box and old newspapers, and then to the walls and ceilingFrom the cardboard box and op ob box and box an	Propagation to dijacent Zones)(Propagation to Upper Floors)(Propagation to Adjacent Buildings)om the door, ndow and enings on the iling to the oby and the ck pathway for nployeesAscended the stairwell from the lobby ceiling and then to the 2nd and 3rd floorsSpread to the other buildings of the Kikufuji Hotel because the fire shutters in between were left open another hotel				
	The flames from the guard office spread in three directions: (1) via the window that was facing the front desk, (2) we small openings on the backside of the ceiling that was facing the main stairwell and (3) via the opening of the guar room to the back pathway for employees that was facing a stone wall. Via paths (1) and (2), the flames spread to the plywood ceiling in the lobby and ascended along the main stairwell where the fire shutters were all open on the 2r and 3rd floors. Via path (3), the flames spread to the kitchen (wooden) from the pathway and merged with the flam from the lobby to consume the president's office and the banquet hall, and eventually hotel H next door that was located next to the north-side of the stonewall.					
	of combustible material inside the room, including the floor which highly combustible). he fire shutters remained open, but also from the openings in the unsealed after construction. the growing fire in the lobby area, and quickly ascended along through hallways that remained open.					
II.	Summary of the Building					
(1) Built	Construction, Completion and Major Renovations (Business Opened) , (Completion) July 1964					
Fire	(2) Vertical Shafts	(3) Fire Prevention				
re Prevention Management	Stairs       [X]       Duct Spaces       [X]         Elevators       []       Other(vaulted       [X]         Escalators       []       Other(vaulted       [X]         • All fire shutters on the inside stairs remained open.       •       •         • The contractors never sealed the holes on the pipe shaft after construction.       •       •         • The outside stairs and fire doors for the fixed       •       •	<ul> <li>The hotel appointed and submitted an unqualified person as the fire-prevention manager.</li> <li>The hotel failed to create a fire defense plan or carry out a fire drill.</li> <li>There was only one night guard, 2 cooks and the owner present during off-business hours.</li> </ul>				
	<ul> <li>The outside stairs and fire doors for the fixed ladders were locked.</li> </ul>					
	(4) Fire Compartments	(5) Firefighting Equipment				
	The contractors failed to seal the drilled holes in the floors and on the walls after water pipe construction.	Despite having a full set of firefighting equipment, the only maintenance work carried out was the fire-prevention manager's patrol.				

III.	III. Actions Taken after the Fire was Detected							
(1) First Detected	<ul> <li>Detected by</li> <li>How and wh</li> <li>Action taken</li> </ul>	y (Flames spread instantly	(Security guard on duty) (Flames spread instantly) (Attempt to extinguish the fire and to notify someone)					
ected	When the security guard (age 39) awoke, the room was already in flames. He tried to extinguish the fire with his jacket, but this action had adverse effects and spread the fire further. His attempt to extinguish the fire failed due to the inadequately maintained fire extinguisher. After he activated the fire alarm (from the receiver on the front desk's back office) to alert those inside the building, he called the town hall, but no-one answered. Therefore, he rushed to the employee dormitory to wake other hotel staff members and alerted other hotels in the vicinity.							
(2) Emergency Call	Emergency       Yes [X] (a fishing park employee who was alerted by one of the hotel employees made a call )       Time elapsed since the discovery (18) minutes         No []       No []							
icy Call	The hotel employee who was alerted by the night guard could not get to the phone inside building because the entrance was already in flames, so he asked an employee of the fish park next door to make a call. The fish park employee K confirmed the fire and called the town hall.							
(3)		Successful [ ] Failed [ X ]	(Reasons or Conditions)					
) Initial Firefighting Activities	<u>Initiated</u>	<ul> <li>Extinguished time []</li> <li>Firefighting difficulties [X]</li> <li>Firefighting method []</li> </ul>	Although security guard M used a fire extinguisher, the fire had already spread beyond control.					
ing Activities	Not Initiated	<ul> <li>Extinguished time [ ]</li> <li>Firefighting difficulties [ ]</li> <li>Firefighting method [ ]</li> <li>Other [ ]</li> </ul>						
(4)	(Obstacles or I	Difficulties in Fire Control)	·					
(4) Summary of Firefighting Activities		due to lack of information						

(5)	Means of Escape (No. of Persons)	Obstacles to Evacuation				
(5) Evacuation	<ul> <li>Stairs []()</li> <li>Elevators/Escalators []()</li> <li>Escape equipment []()</li> <li>Directly to ground from windows or ope</li> <li>Rescued []()</li> <li>Other ()[X]()</li> </ul>	<ul> <li>No windows []</li> <li>Barred openings []</li> <li>Locked emergency doors (Exits) [X]</li> <li>Alarm system [] (Poorly controlled, Malfunctioned, Not installed)</li> <li>Power outage []</li> <li>Other () []</li> </ul>				
	Refer to the attachment					
(6)	Healthy individuals 26	Obstacles to Evacuation				
(6) Casualties	(Drunken persons ) Individuals in need of assistance 4	• No Windows [ ]				
alties	Infants	<ul> <li>Barred openings [ ]</li> <li>Locked emergency doors (Exits) [X]</li> <li>Alarm System [ ] (Poorly controlled, Malfunctioned, Not installed)</li> <li>Power outage [ ]</li> </ul>				
	Elderly Handicapped					
	Patients/ill persons • Other ( ) [ ]					
	Refer to the attachment					
	Issues and Lessons Learned					
	Although the hotel had adequate firefighting	• • • •				
2.	<ol><li>The night guard started the fire and failed to extinguish it, which caused the fire to spread. He also failed to help hotel guests to evacuate.</li></ol>					
3.	3. Hotel guests were not familiar with the location of the emergency exits or how to unlock emergency doors. The hotel failed to provide emergency procedures to the guests. The guard activated the fire alarm; however, most of the guests had no idea what the alarm was for.					
4.	4. The hotel was less aware of fire prevention and failed to maintain fire-prevention measures. No fire drill was carried out. Only one security guard was on duty during off-business hours.					
5.	<ol><li>Although there were fire shutters on the stairwell and in between the wooden buildings, all remained open. Most of the drilled holes in the firewall and ceilings were never sealed after water pipe construction.</li></ol>					

## [Attachment] Evacuation and Causality

When the fire broke out, 213 guests (a large group of 208 and 5 individuals) were staying at the Kikufuji Hotel. A group of 83 guests was in the new building (the building on fire). After enjoying dinner and a hot spring bath, most were asleep by 1am. Only a few guests noticed the sound of the fire alarms that were located on each floor and most guests woke up because of the smoke that entered their rooms and the unusual sound outside their rooms.

## 1. Evacuation and causalities from the 2nd floor

People who were staying in Rooms 205 to 208 called for help from the balcony (5m width) as soon as they found out about the fire. The hotel employees helped some of them to escape to the top of the stone wall near Hotel H and the rest jumped down onto futon mattresses. From this balcony, 24 people, including 2 with minor injuries, evacuated safely. On the other hand, guests who were staying in Rooms 201 to 203, which were above the stage, on the side of the street and 3 stories above the ground, were trapped by the flames emerging from a large window in the lobby. The hallway was already filled with flames and smoke; 10 guests from Rooms 202 to 203 were all found dead inside the rooms. As for 5 guests from Room 201, all reached the emergency exit: however, as no-one knew how to unlock the cylinder lock, 1 person was found dead near the exit and 2 people were found dead near the stairs. Of the 2 remaining persons, 1 was found dead inside the room and 1 called for help from the street-side window but fell into the flower garden. This person was badly injured but survived (in total, 14 people were killed).

2. Evacuation and causalities from the 3rd floor

Similar to the 2nd floor, 28 guests in Rooms 305 to 307 could not enter the hallway, but they opened the windows and threw futon mattresses to the 2nd floor to jump down. During the evacuation, 1 guest died and the majority of guests sustained minor or serious injuries. Fifteen guests from Rooms 301 to 303, which is 4 stories above the ground, were trapped by the flames in the hallway and all were found dead in their rooms, except for 3 guests who were found dead in the bathroom. Most of the guests did not sustain burns to their body or clothing and some of them were still in bed (futon).

## 3. Other evacuees

The hotel guests who were staying in Buildings K and S were awoken by the fire alarms sounding throughout the buildings, and firefighters and hotel employees helped them to evacuate safely via emergency exits.



