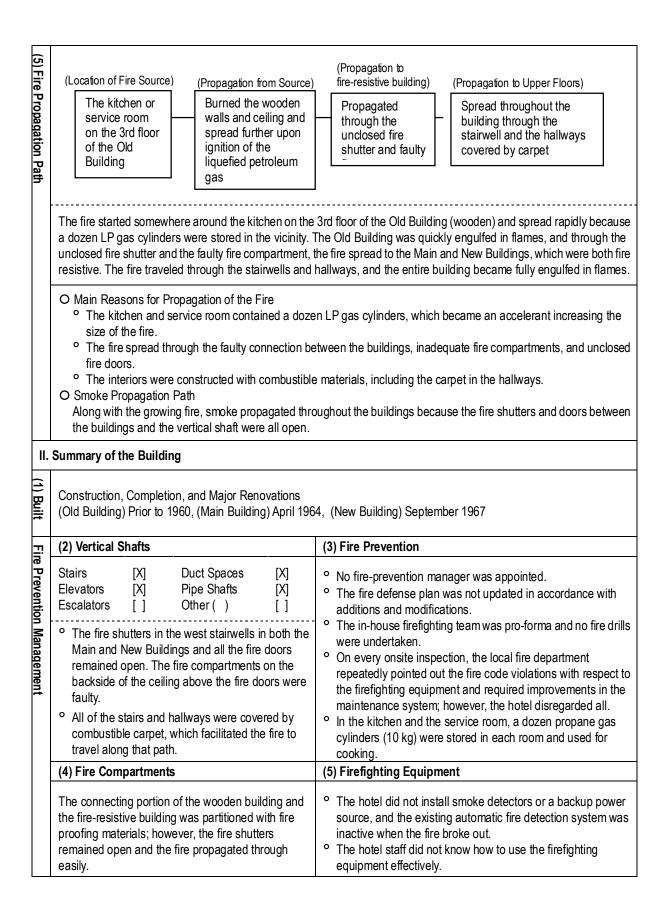
Building Name Address	Use (as per FSA Annexed Table 1)	Date and Time of Incident	Structure and Stories Area	Extent of Damage (Damaged Area/ Total Area)	No. of Casualties
		Feb. 25, 1972	Fire resistive		
Tsubaki Grand Hotel	Hotel (5) a	Breakout at 06:30 (approx)	7 stories above ground and 0 below Partially wooden, 3	[All], Half, Partial, Small	Fatalities 3
1101 Tsubaki, Shirahama-cho, Nishimuro-gun, WAKAYAMA		Notified by emergency call Extinguished by 11:55	stories above ground Building area m² Total floor area 11,120 m²	11,120 m ² (100%)	Injured 6 (1)

I. Summary of Fire Incident

(1) Summary	This fire originated from the kitchen on the 3rd floor of the wooden building and quickly spread to the adjacent fire-resistive building. Lack of fire prevention management caused this fire and resulted in 3 fatalities.							
(2)	Floor	Total area	Damaged area	Use (Purpose)	No. of people	No. of fatalities	Fire escape equipment	Firefighting equipment
(2) Conditions per Floor	7 6 5 4 3 2	m ²	m ²	Guest rooms Guest rooms Guest rooms Guest rooms, Great hall Guest rooms, Medium-sized hall Guest rooms, Grill, Kitchen Guest rooms, Recreation room, Hall Guest rooms, Lobby, Kitchen	364 guests 24 hotel employees	5th floor of the main building 3 fatalities (1 male and 5 females)	Main building 3 sets of inside stairs (2 sets on 1st to 5th & 1 set on 1st to 2nd) 2 sets of metal ladders 3 sets of rope ladders 1 set of fixed ladders New Building 1 sets of inside stairs (1st to 7th) 1 set of outside stairs	Fire extinguishers 48 sets of indoor fire hydrants Automatic fire detection system Emergency alarm system (PA system) Guiding lights Emergency signs Emergency sign Water pipe connections (New Building)
	Total	11,120	11,120	Tatorion	388	3	Old Building 4 sets of inside stairs (2 sets on 1st to 3rd & 2 sets on 1st to 2nd)	

(Floor, Room, Part, Combustibles, Habitable/Non-habitable rooms, Present/Absent) The origin of the fire is believed to be the kitchen or the service room on the 3rd floor of the Old Building (3-story wooden structure). A dozen propane gas cylinders (10 kg) stored near an open flame.	(4) Cause of Fire	Unknown
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III.	. Actions Taken a	after the Fire was Detected					
(1) First Detected	Detected byHow and whAction taker	y (Unusual soun	(Female Employee N) (Unusual sound) (Alerted others loudly)				
tected	Hotel Employee N heard an unusual sound and went to the 3rd floor of the Old Building. She saw swirling flames and fire in the hallway and loudly alerted others by calling out "Fire!" as she ran through the hallway.						
(2) Eme	Emergency Call	Yes [X] () No []		Time elapsed since detection () minutes			
2) Emergency Call	Initial detection was significantly delayed because the origin of the fire, which was in the center of the 3rd floor, had less people passing through and the automatic fire detection system was inactive. The hotel had never held a fire drill, so when the hotel employee noticed the fire, she panicked and failed to respond systematically. One of the hotel staff members finally made a 119 call 15 minutes after the fire was detected.						
(3) Initial Firefighting Activities	<u>Initiated</u>	Successful [] Failed [X] Comparison of the c	[] [X] []	(Reasons or Conditions) A male staff member tried to extinguish the fire with a hose that extended from the indoor fire hydrant of the souvenir shop on the 2nd floor; however, the fire was out of control and the power was out.			
ing Activities	Not Initiated	Extinguished timeFirefighting difficultiesFirefighting methodOther	[]				
(4)	(Obstacles or Difficulties in Fire Control)						
Summar	This ocean front hotel had limited space for firefighters to maneuver and all the units had to gather on one side of the hotel.						
(4) Summary of Firefighting Activities	Objective the strength of the entire building was engulfed in flames because of the delayed detection, delayed emergency call, and quick propagation of fire.						

(5)	Means of Escape (No. of Persons)	Obstacles to Evacuation		
Evacuation	 Stairs [X] (353) Elevators/Escalators [] () Escape equipment [] () Directly to ground from windows or openings [X] (2) Rescued [X] (9) Other () [] () 	 No windows [] Barred openings [] Locked emergency doors (Exits) [] Alarm system [X] (<u>Poorly controlled</u>, Malfunctioned, Not installed) Power outage [] Other [X] 		

- o In the New Building, approximately 200 guests were staying on the different floors (dispersed evenly). They heard the shouts of "Fire!" and other disturbing sounds and ran out to the hallway. Without any sign of smoke, all of them evacuated relatively smoothly using the outside stairs on the east side of the building.
- o In the Main Building, approximately 150 guests were staying there and heard the shouts of "Fire!" Most of them rushed to the stairs in the center of the building and evacuated. However, 11 guests were trapped and called for help from the balconies of the 4th and 5th floors. They were rescued by firefighters, except for 2 guests who impatiently jumped and broke their legs, but survived.

Healthy individuals 3 (Drunk persons) Individuals in need of assistance Infants Elderly Handicapped Patients/ill persons Obstacles to Evacuation No windows [] Barred openings [] Locked emergency doors (Exits) [] Alarm system [X] (Poorly controlled, Malfunctioned, Not installed) Power outage [] Other []

On the 5th floor of the New Building, of the 8 guests staying in the rooms there, 5 were rescued from the balcony. However, 3 burned bodies were found: 1 guest in the hallway in front of Room 510, and 2 guests inside Room 515.

IV. Issues and Lessons Learned

- 1. Despite the recommendations and repeated warnings issued by the local fire department, the hotel disregarded all and fire safety measures throughout the hotel were severely lacking. (The automatic fire detection system did not work because of poor maintenance.)
- 2. There was no routine fire prevention system and therefore the employees were unconcerned with fire safety. This resulted in the employee's poor response in communication, evacuation guidance, and firefighting activities.
- 3. When new fire-resistive additions were added to the old wooden building, the connecting portions and internal piping connections were inadequately constructed, which resulted in the rapid spread of fire vertically and horizontally.
- 4. The fire traveled easily through hallways and stairwells because of incomplete fire compartments, ineffective fire doors and shutters as well as the carpet throughout the building.
- 5. The hotel stored a large amount of LP gas cylinders in the kitchen, indicating that both the hotel and the distributor lacked concern about safety and responsibility.

