			lding 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	
					Dec. 4, 1976		Fi re	Fire resistive					
		Kunim	atsu Building	Complex (16) a	Breakout at 00:33 (approx) Detected at 00:36 Notified by emergency call Extinguished by 02:35		3 al gi 6 1	4 stories above ground and 1 below Building area 105 m <sup>2</sup> Total floor		All, Half, <u>Partial</u> , Small 75 m² (15% )	Fatalities 6		
			-7 Kotobashi, la-ku, TOKYO	E			Тс				Injured 3		
					02.35		a	area 513 m <sup>2</sup>				(1)	
1. 9	Summa	ry of Fire In	cident										
(1) Summarv	The fire emerged from the 2nd floor of a small but typical multi-tenant building. The extent of the damage was contained within a certain portion of the 3rd floor, but the only escape route was filled with noxious smoke and the 3rd floor was an enclosed area where all the windows and exits were closed off. As a result, this fire resulted in 6 fatalitie						and the 3rd						
(2) (	Floo r	Total area	Damaged area	Use (Purpose)	No. of No. of persons fatalities			-		Firefighting equipment			
òndi		m <sup>2</sup>	m <sup>2</sup>				Inside stairs,						
tions									1 set from 1st to 4 <sup>th</sup> foors				
(2) Conditions per Floor	4	93		Office, Residences	1				(dedicated stairs for 3rd and 4th		9 sets of fire extinguishers		
	3	105	75	Hostess Bar ("Utamaro")	10		(4 male female		floors)		Aut	omatic fire	
	2	105		Hostess Bar ("Kinshicho London")	6				2nd floors (dedicated stairs for 2nd floor) Outside stairs, 1 set from 1st to		detection system on 2nd and 1st basement floors		
	1	105		Storage							Gui	Guiding lights	
	B1	105		Night club ("Cattin")	2							on 2nd and 1st basement floors	
	Tota I	513	75		19		6						
(3) (	(Floor, Room, Part, Combustibles, Habitable/Non-habitable					(4) Cause of Fire	Unkno	own	bridge				
Driain		rooms, Present/Absent)						There was no obvious fire source in the stairwell or any abnormality in the electrical					
(3) Origin of Fire		From the landing of the 2nd floor in the west stairwell that was exclusively used by businesses on the 3rd and 4th floors.						stanwen of any abnormanty in the electrical system, so the investigators suspected a burning match, a discarded cigarette, or arson. However, due to lack of evidence, the cause of the fire is unknown.					
	<ul> <li>There were no guests inside the building as it was after business hours.</li> </ul>					ire	burnir Howe						
							the fin	e is l	IUKUOM	n.			
	with a non-flame-retardant interior material made of chemical fibers. The floor was covered by carpet.												

(5)		(Propagation to Upper Floors)					
(5) Fire Propagation Path	(Location of Fire Source)(Propagation from Source)Landing of the 2nd floor in the west stairwellIgnited the interior finishing materials in the stairwell wall and spread to the 3rd floor	Ignited the wooden door to the 3rd floor and the combustible walls inside the cabaret					
Path	The fire started in the west stairwell where the walls were finished with chemical fibers without any non-flame-retardant treatment. The stairwell and the hostess bar were partitioned by plywood to a certain extent and the entrance door to the 3rd floor was made of wood. When the fire emerged on the landing of the 2nd floor, these combustibles ignited and the fire spread inside the hostess bar on the 3rd floor.  * The fire did not spread to the 4th floor through the stairwell because there was no combustible material up to the 4th floor and the interior walls were made of concrete.  O Main Reasons for Propagation of the Fire      The fire spread to the upper floors because the stairwell interior walls were combustible.      The fire penetrated into the hostess bar on the 3rd floor because the door was made of wood and the fire compartment was incomplete.  O Smoke Propagation Path The chemical fibers used on the stairwell walls produced heavy smoke. With the stairwell acting like a chimney, the smoke ascended rapidly and filled the 3rd and 4th floors.						
-	Summery of the Duilding						
_	. Summary of the Building						
(1) Built	Construction, Completion, and Major Renovations (Completion) November 1966						
Fir	(2) Vertical Shafts	(3) Fire Prevention					
Fire Prevention Management	Stairwells[X]Duct spaces[]Elevators[]Pipe shafts[]Escalators[]Other ()[]	<ul> <li>The tenants on the 1st basement and 2nd floors had their own fire-prevention manager, but the tenant on the 3rd floor ("Utamaro") had no fire fire-prevention manager or a fire defense plan</li> <li>No fire drills were undertaken.</li> </ul>					
	<ul> <li>Because of the exclusive use of the west stairs by the 3rd and 4th floors, the entrance to the 2nd floor was closed off by the fire doors.</li> </ul>						
	<ul> <li>On the west side of the building, there was an outside set of stairs made of metal, but the entrance to the 3rd floor was unusable because it was boarded up by a sheet of plywood and mirror.</li> <li>The interior finishing of the west stairwell walls was</li> </ul>						
	combustible. (4) Fire Compartments	(5) Firefighting Equipment					
	The door to the 3rd floor was made of wood and had no fire compartment system.	<ul> <li>The 2nd and 1st basement floors had an automatic fire detection system installed.</li> <li>(But) the control panel of the automatic fire detection system was in the office on the 4th floor, and the audio of the main and local alarms were inactive (off).</li> </ul>					

III.	III. Actions Taken after the Fire was Detected							
(1) First Detected	<ul> <li>Detected by</li> <li>How and wh</li> <li>Action taker</li> </ul>	(Hostess of the cabaret on the 3rd floor) (Smoke coming from the clearance of the entrance door) (Alerted the manager)						
ected	On the way back to her table, after the hostess of the <i>Utamaro</i> hostess bar on the 3rd floor made a personal phone call at the front counter, she saw smoke coming from the clearance of the entrance door. She notified the manager of the smoke. When the manager opened the door to the stairs, black smoke poured in rapidly.							
(2) Emergency Call	Emergency       Yes [X] (the night club manager on the 1st basement floor and the hostess bar manager on the 2nd floor (at the same time) )         Call       No []							
v Call								
(3) Initial Firefighting Activities	<u>Initiated</u>	Successful [] Failed [X]       (Reasons or Conditions)         • Extinguished timing []       • On the 3rd floor, as soon as the bar manager of Utamaro became aware of the fire, he loudly shouted "Fire! Run, go to the 4th floor" and he picked up the dry-chemical extinguishers near the bathroom. From the door that he opened initially, he ran down the stairs to get closer to the						
	Not Initiated	<ul> <li>origin of the fire, but he gave up trying to extinguish the fire because the smoke was too dense. When they exited the building, the nightclub manager and the bar</li> <li>origin of the fire, but he gave up trying to extinguish the fire because the smoke was too dense. When they exited the building, the nightclub manager and the bar</li> <li>origin of the fire, but he gave up trying to extinguish the fire because the smoke was too dense. When they exited the building, the nightclub manager and the bar</li> <li>origin of the fire because the smoke was too dense. When they exited the building, the nightclub manager and the bar</li> <li>origin of the fire because the smoke was too dense. When they exited the building, the nightclub manager and the bar</li> <li>origin of the fire because the smoke was too dense. When they exited the building, the nightclub manager and the bar</li> <li>origin of the fire because the smoke was too dense. When they exited the building, the nightclub manager and the bar</li> <li>origin of the fire because the smoke was too dense. When they exited the building, the nightclub manager and the bar</li> <li>origin of the fire because the smoke was too dense. When they exited the building, the nightclub manager and the bar</li> <li>origin of the fire because the smoke was too dense. When they exited the building, the nightclub manager and the bar</li> <li>origin of the fire because the smoke was too dense. When they exited the building, the nightclub manager and the bar</li> <li>origin of the fire building, the nightclub manager and the bar</li> <li>origin of the fire building, the nightclub manager and the bar</li> <li>origin of the fire building, the nightclub manager and the bar</li> <li>origin of the fire building, the nightclub manager and the bar</li> <li>origin of the fire building, the nightclub manager and the bar</li> <li>origin of the fire building, the nightclub manager and the bar</li> <li>origin of the fire building, the nightclub manager and the bar</li> </ul>						
(4) Summary of Firefighting Activities	Firefighters had	Difficulties in Fire Control) I a hard time entering the building because the fire floor was windowless as all the windows and exits y mirrors, plywood, or furniture from inside.						

(5)	Means of Escape (No. of Persons)	(	Obstacles to Evacuation				
(5) Evacuation	<ul> <li>Stairs [X] (12)</li> <li>Elevators/Escalators [] ()</li> <li>Escape equipment [] ()</li> <li>Directly to ground from windows or op (1)</li> <li>Rescued []()</li> <li>Other ()[]()</li> </ul>	penings [ X ]	<ul> <li>No window [X]</li> <li>Barred openings [ ]</li> <li>Locked emergency doors (Exits) [X]</li> <li>Alarm system [X] (Poorly controlled, Malfunctioned, Not installed)</li> <li>Power outage [ ]</li> <li>Other [X]</li> </ul>				
	<ul> <li>Some people were able to evacuate by themselves from the east-side exclusive stairs (2 male employees from the 1st basement floor, and 2 male employees and 4 hostesses from the 2nd floor).</li> </ul>						
	On the 3rd floor, there were 10 persons in total (6 male employees, 1 male tax-accountant, and 3 hostesses). Because of the smoke, everybody at once gathered around the "exit door to the stairs". As soon as they opened the door, black smoke poured in, but they ran down the stairs through the black smoke to the ground all together. (4 males and 2 females were left behind and died)						
	On the 4th floor, 1 male was on night duty and he woke up because of the smoke. He could not go down the stairs because the stairwell was already filled with black smoke. When he opened the window on the east side, he was able to receive instructions from the firefighters who told him to go to the rooftop of the adjacent building, which he did.						
(6)	Healthy individuals 6	Obstacles to E	Evacuation				
(6) Causalities	(Drunk persons )	• No window					
salit	Individuals in need of assistance       • Barred openings [ ]         Infants       • Locked emergency doors (Exits) [X]						
ies	Elderly • Alarm system [X] ( <u>Poorly controlled</u> , Malfunctioned, <u>Not installed</u> )						
	Handicapped   Power outage [ ]						
	Patients/ill persons	° Other [X]					
	The 6 fatalities (4 male employees and 2 hostesses) were those who did not escape from <i>Utamaro</i> on the 3rd floor. They had all gathered around the exit door to the stairs with other people, but they were hesitant to escape through the heavy smoke, so they stayed behind and became unconscious around the table and kitchen. (They were rescued by firefighters, but died in hospital)						
IV.	Issues and Lessons Learned						
1.	The 3rd floor was windowless because all the windows on the 3rd floor were covered by mirrors, plywood, and wallpaper, including the exit to the outside stairs. Therefore, the only way to evacuate was via the stairs that were filled with flames and smoke and 6 people died.						
2.	The chemical fibers used on the stairwell walls were not flame retardant and caused the fire to propagate inside the stairwell.						
3.	The wooden door to the 3rd floor was not protected by an adequate fire compartment system and therefore it became the spread path to the 3rd floor.						
4.	Fire detection was delayed because there was no automatic fire detection system in the west stairwell.						
5.	<i>Utamaro</i> (hostess bar) on the 3rd floor failed to comply with the requirements for a fire-prevention manager, fire defense plan. and fire drill.						



