Remote Fire Control Water Pressure Monitor Platform

- Solutions
- User case

FireVisual

Tracesoft ,LTD.

Contents

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Necessity

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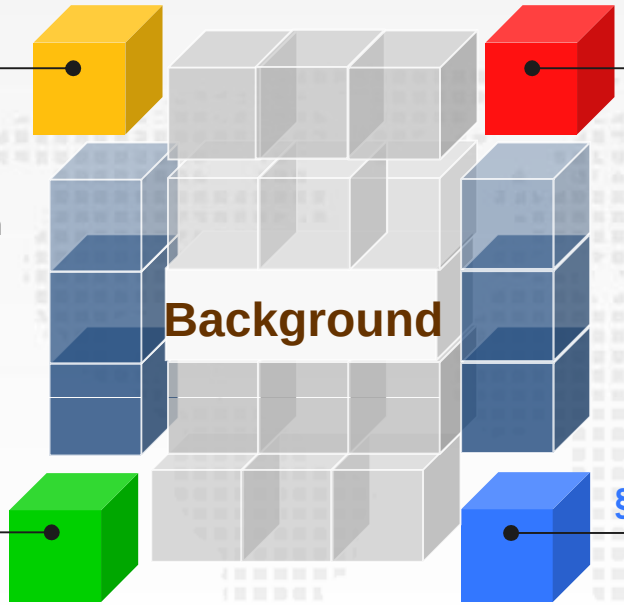
§ Important in Fire

- **Numerous cases and lessons teach us that whether the fire could be put out successfully in the initial stage mainly depends on normal water supply.。**

§ Hard to do

- It's difficult to demand patrollers to inspect water pressure in a comprehensible way



§Labor Cost

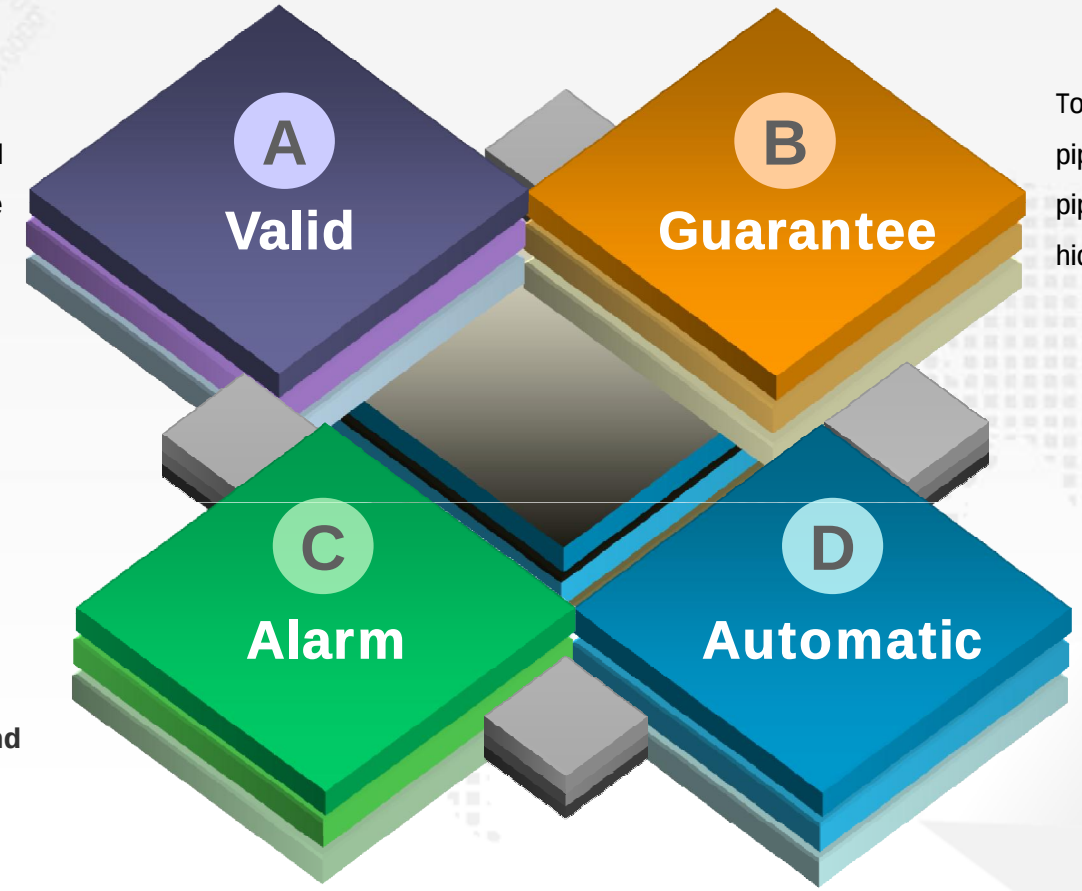
- **High labor cost**
- **Its life expectancy will be greatly influenced by unreasonable checking of water supply facility.**

§ Saving water and energy

- **A large quantity of water will be consumed even if fire control water is not used.。**

Necessity

To ensure normal water pressure at each fire control end at any time (in key zone like rooftop standpipe and spray installation);



To prevent excessive pressure in pipeline, which may lead to pipeline break and become hidden danger.

To check leakage and alarm timely: To alarm upon abnormal water pressure change could partially save energy and reduce emission;

To be adopted to test booster pump and handle any difficulty as an auxiliary.

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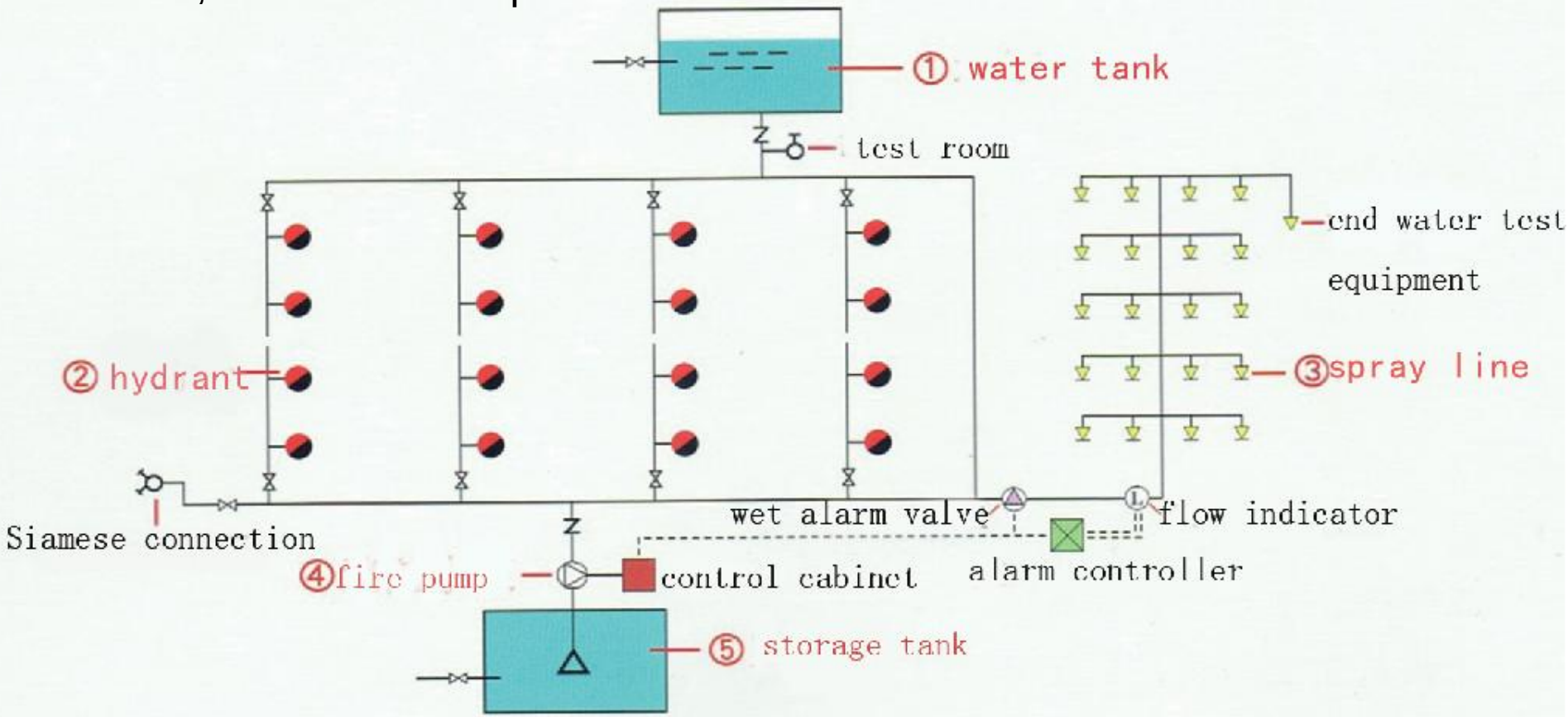
Solutions

Though main pump room is set up with regard to fire control water supply, there's great difficulty in ensuring normal water supply at the tail end as a result of excessively complicated water network, as is shown in the picture



Solutions

Real-time monitor of fire control water pressure, water level, flowing speed and flow to discover abnormal condition of standpipe(hydrant), spray line, fire pump water pressure and water level in water tank and storage tank is performed to guarantee normal fire control water pressure and water level. (Notes: hydrants include those indoors and outdoors and those outdoors are installed differently)

Green:Normal
Red:Too high or Too Lower
Yellow: Fault

Solutions

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Map View --Fire control water pressure

DeviceName	Current Water	Maximum Press	Minimum Press	Time
-1F Hydrant	PRESS:0.36 Mpa	PRESS:0.7 Mpa	PRESS:0.05 Mpa	2016-07-14 17:05:08
-1F Spray	PRESS:0.66 Mpa	PRESS:0.7 Mpa	PRESS:0.05 Mpa	2016-07-14 17:05:08
1F Hydrant	PRESS:0 Mpa	PRESS:0.7 Mpa	PRESS:0.05 Mpa	2016-07-14 17:05:08
2F Hydrant	PRESS:0.17 Mpa	PRESS:0.7 Mpa	PRESS:0.05 Mpa	2016-07-14 17:05:08

Solutions

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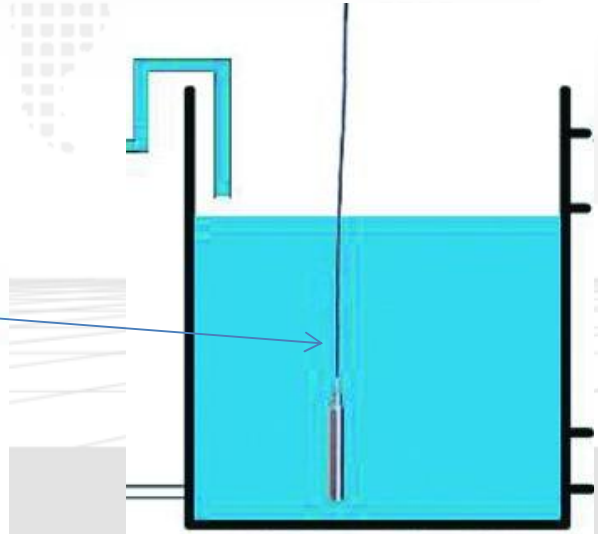
Sensor Installed(Indoor)

Standpipe

Spray end

Water pressure

Water level



Water tank

Solutions

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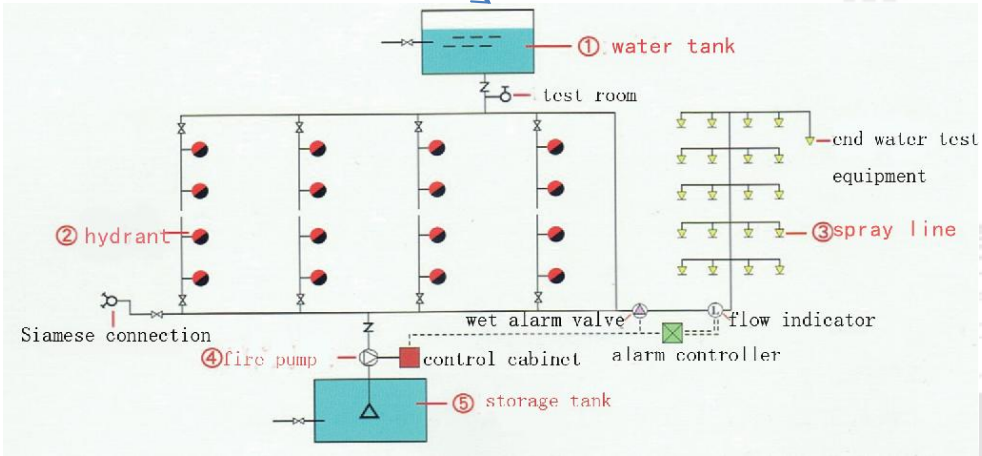
Flexible Design, easily and quickly

One Building or Adjacent Buildings

Indoor Alarm Box

Server



Solutions

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Installed(Outdoor)

- Outdoor Alarm Box

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Application Details

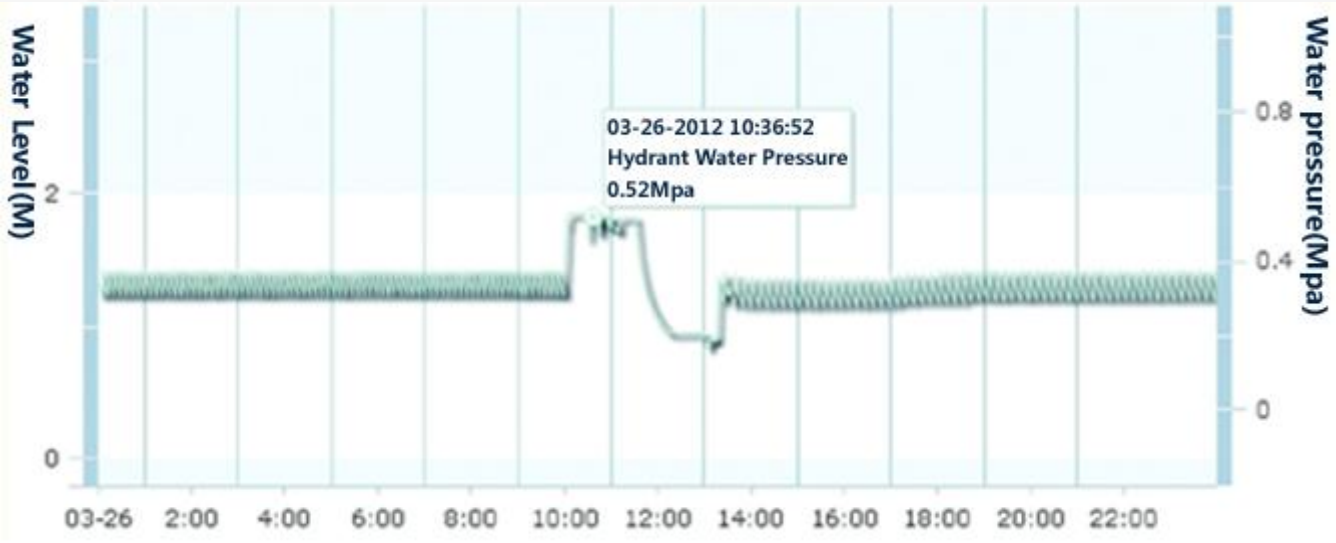
Case 1: To discover incorrect connection of domestic water pipe in Southeast University

Southeast University gives priority to installation in old buildings built during the period of the Republic of China. In these old buildings fire control and domestic water are supplied by municipal water supply, thus not creating large pressure for water protection pipe.

After the installation is finished, fire control water pressure is always unstable for quite a long time. And as the above picture shows the curve immediately falls the moment the domestic water is used. It's later discovered that domestic water pipe is misconnected to fire control water pipe.

Application Details

Case 2:Hangzhou Dianzi University



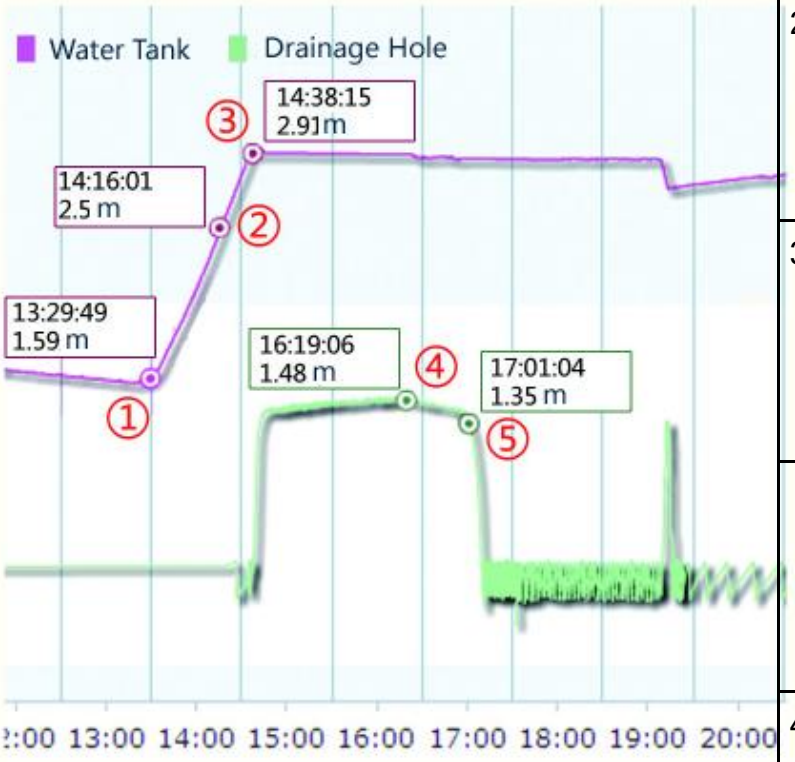
There's something wrong with mechanical watch in stabilized pressure pump in the library, leading to pressure increasing all the time with no way to stop. The platform sounds abnormal alarm and monitoring staff immediately dispatch workers to deal with it.

Alarm for 1 m; it takes 10 m to find out the reason and 10 m to solve the problem.

In the end the problem is solved, successfully avoiding damage that may be brought by pipe bursting.

Application Details

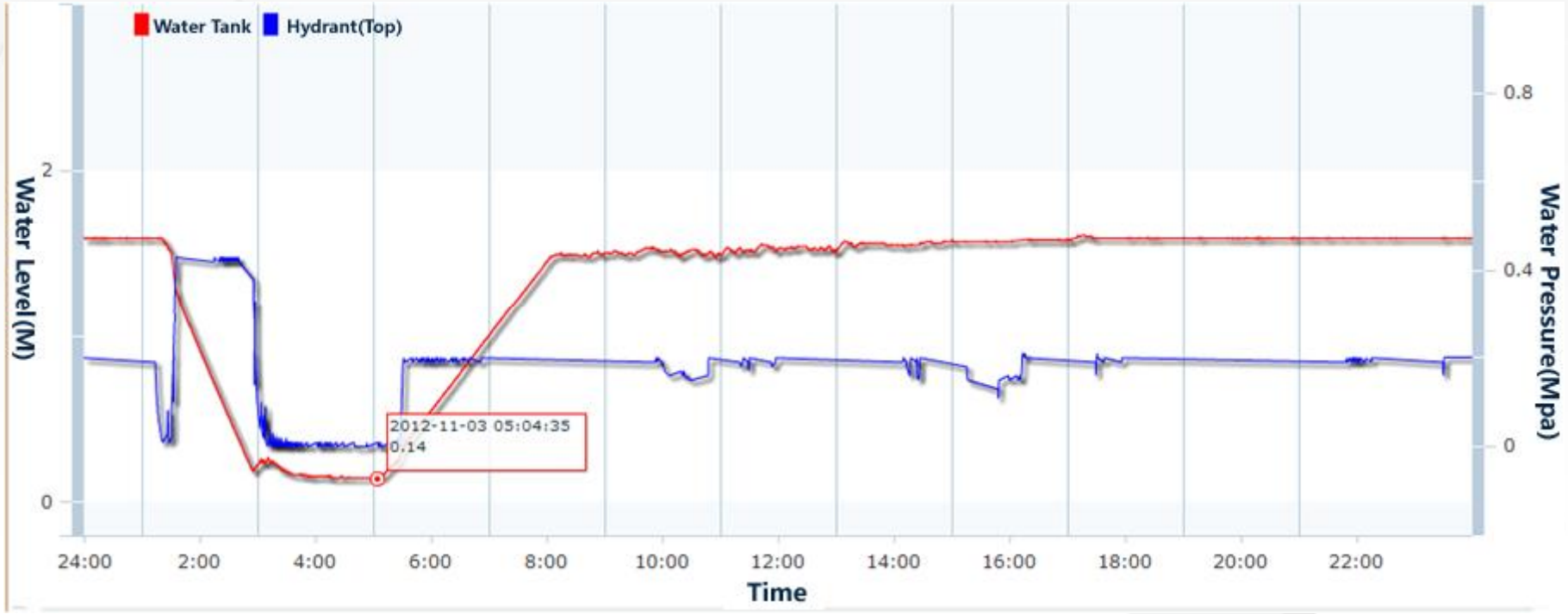
Case 3:Ningbo University of Technology



No.	Time	Event	remark
1	1:29 p.m.	Fault starting point	
2	2:16 p.m.	Start alarming when water level reaches 2.5 m	Man on duty: the system alarms automatically No man on duty: the system sends text message to alarm
3	2:38 p.m.	Water tank leakage	There had been sufficient time for operators to handle the problem. Thus they have to account for their dereliction of duty.
		Ponding is formed on the ground when the drainage hole fails to drain water after about 10 s.	
4	4:19 p.m.	The drainage hole is 1.48 m deep and water on the ground is 18 cm deep	danger
5	5:01 p.m.	Rush to repair and drain off all water on the ground	Danger removed, for the reason of control valve fault

Application Details

Case 4: Nanjing Agricultural University



As is shown in the above picture, at 1:14 a.m. the main pipe pump is switched off owing to dormitory standpipe adopting main pipe water and rooftop tank to supply water. Then the dormitory standpipe water is supplied by rooftop tank, causing tank water exhausted.

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Benefits and User case

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Automatic

Visual

Cost saving

see
something

say
something

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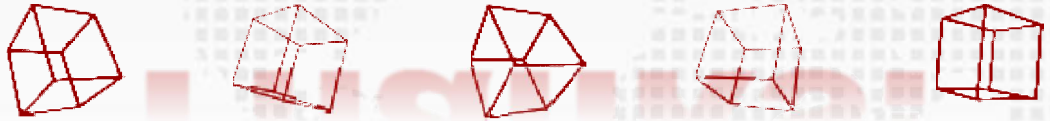
Thanks!



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