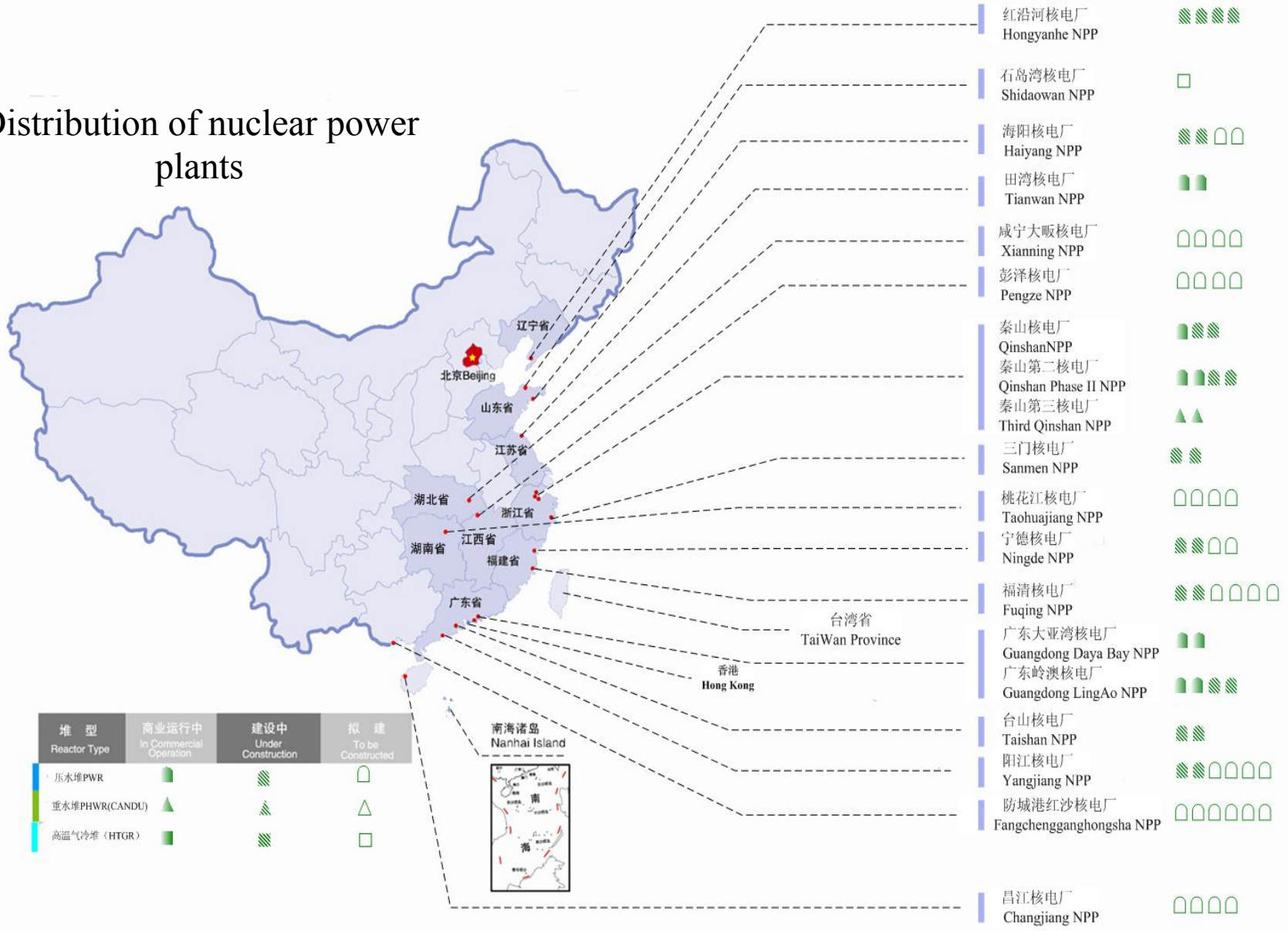
NUCLEAR SAFETY EMERGENCY GOVERNANCE FOR PUBLIC TRUST BUILDING IN MAINLAND CHINA

12 JUNE 2014, HKU

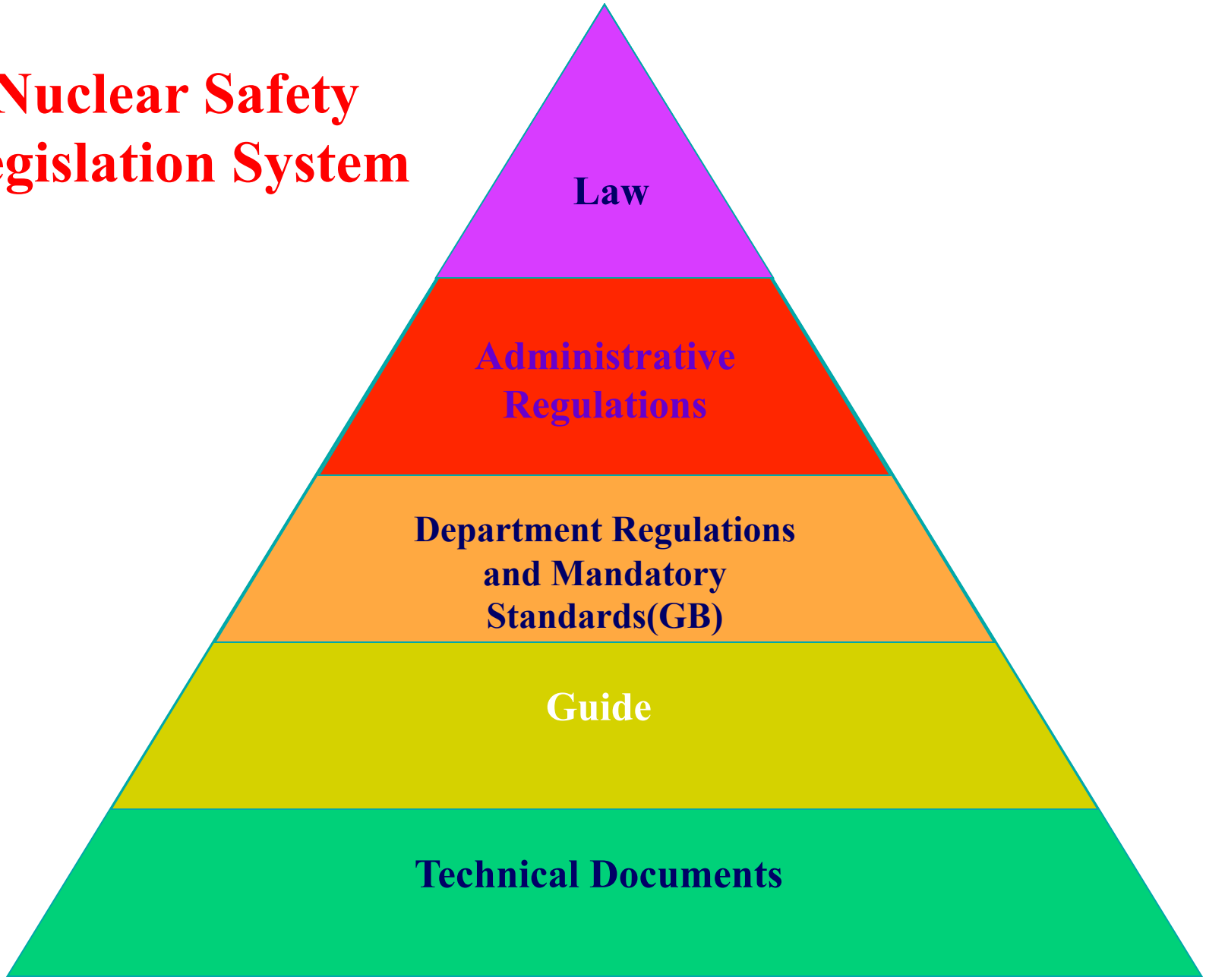
facilities and activities under governance

Distribution of nuclear power plants

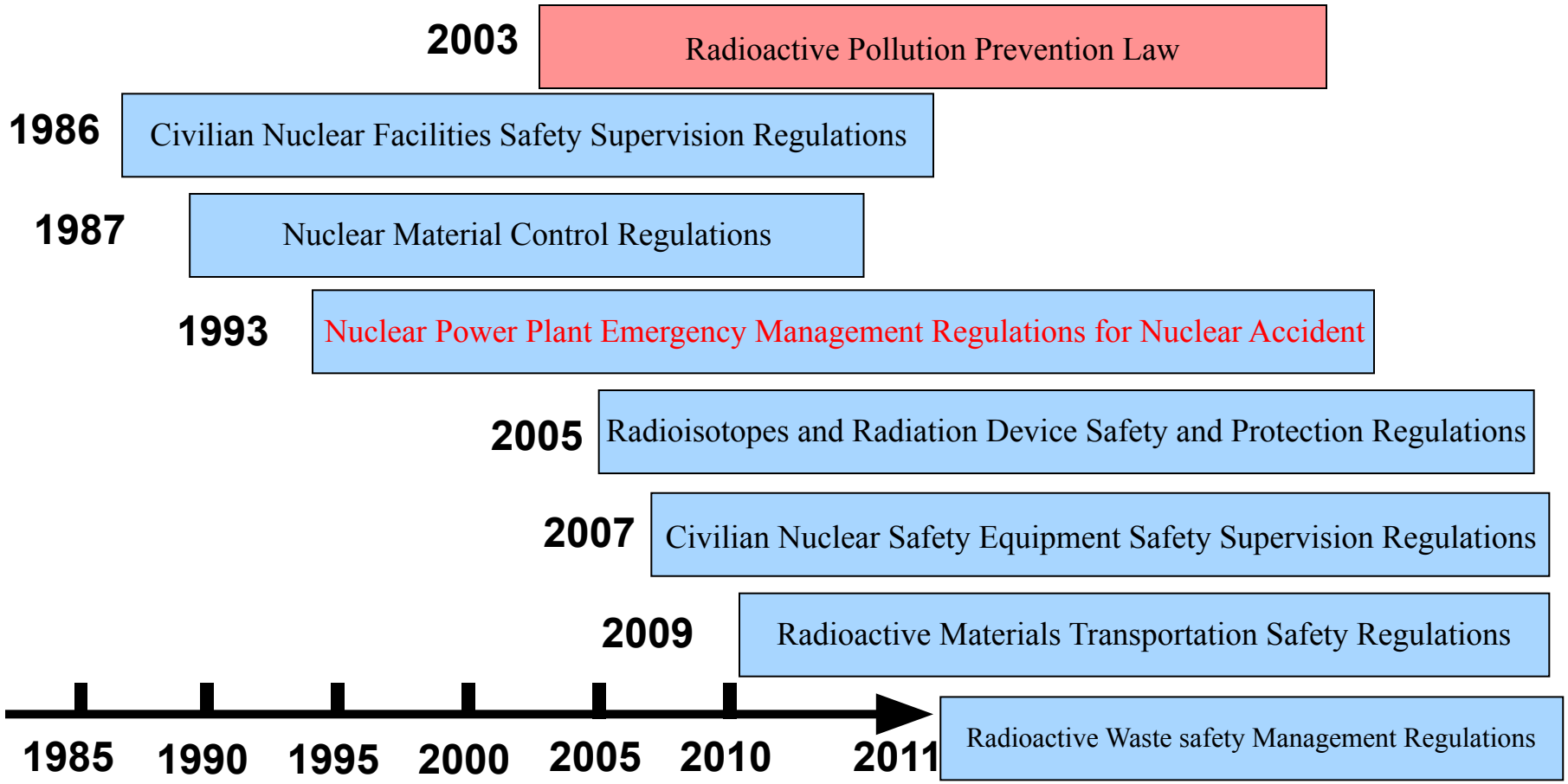


Requirements for Emergency Governance

Nuclear Safety Legislation System



Law and Regulations for Nuclear Safety Regulatory

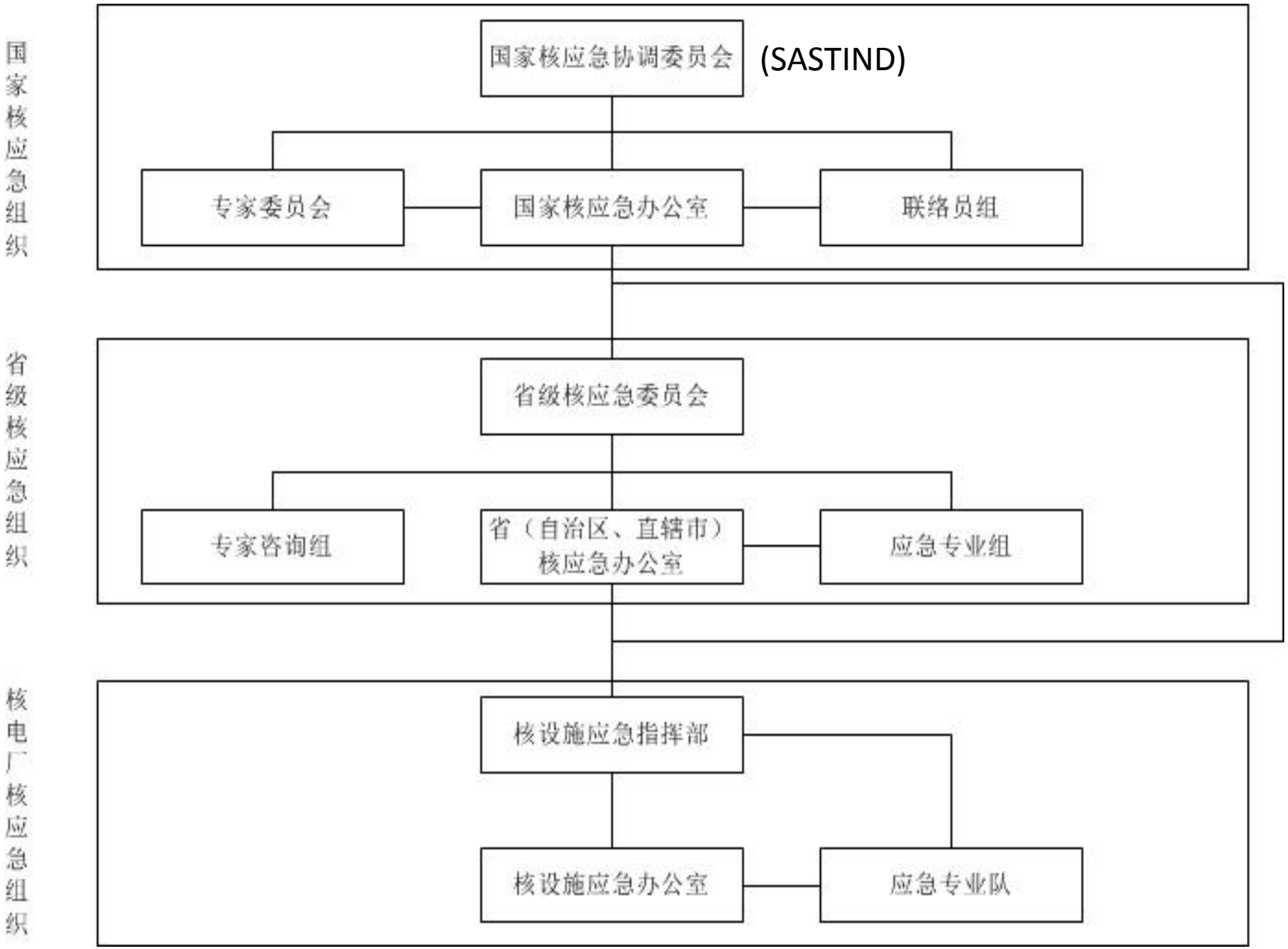


Nuclear accident emergency preparedness

- Establishing emergency organizations
- Preparing emergency response plan
- Emergency response implementing procedures
- Preparing emergency response facilities
- Conducting periodic emergency response training
- Exercises and drill

Emergency Organizational System

- ONE integral;
- TWO systems: army and local government;
- THREE levels: national, provincial (region, city), nuclear facilities


国家核应急组织
国家核应急协调委员会
(SASTIND)
专家委员会
国家核应急办公室
联络员组
省级核应急组织
省级核应急委员会
专家咨询组
省（自治区、直辖市）
核应急办公室
应急专业组
核电厂核应急组织
核设施应急指挥部
核设施应急办公室
应急专业队

Four scales of emergency situations

- Emergency on Standby
- Plant Emergency
- On-site Emergency
- Off-site Emergency

Information Dissemination

Acquaintance for Public with Emergency Preparedness

- With the rapid development of China's nuclear power industry, the attention and participation awareness of the public to nuclear safety is continuously improved.
- Each nuclear-power enterprise and government relevant departments concerned at different levels increase the publicity of nuclear power to the public through different channels.
- Information disclosure system established, and corresponding organization, facilities and resources configured.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全国辐射环境自动监测站空气吸收剂量率（2014年6月8日9:00 －6月9日9:00）

2014-06-09

单位：nGy/h

地点	测值范围	平均值	参考本底范围（当地原野）	结论
北京市	76.0-104.0	79.5	60.2 -119.9	正常水平
哈尔滨市	73.2-74.3	73.7	57.6-117.1	正常水平
长春市	72.5-78.1	74.5	70.8-147.4	正常水平
沈阳市	84.5-89.9	86.0	61.6-91.2	正常水平
济南市	83.4-84.7	84.1	65.0-110.4	正常水平
南京市	76.0-77.4	76.7	64.9-102.1	正常水平
上海市	90.4-91.3	90.8	54.9-108.2	正常水平
杭州市	106.7-108.6	107.5	56.8-148.2	正常水平
福州市	111.0-112.5	111.8	59.0-184.8	正常水平
广州市			69.3 -266.9	正常水平

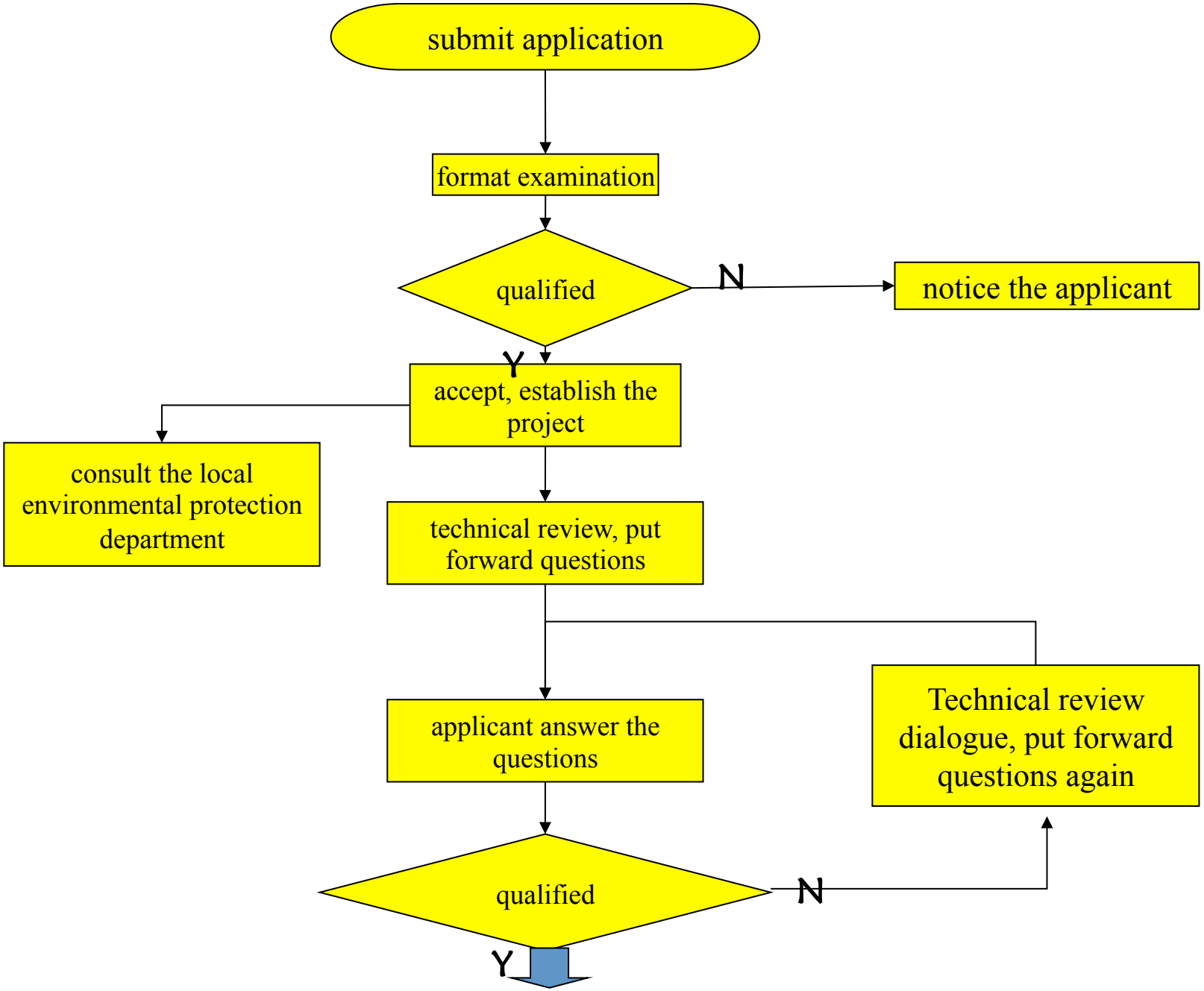
我国运行核电站周围环境空气吸收剂量率（2014年6月7日9:00 －6月8日9:00）

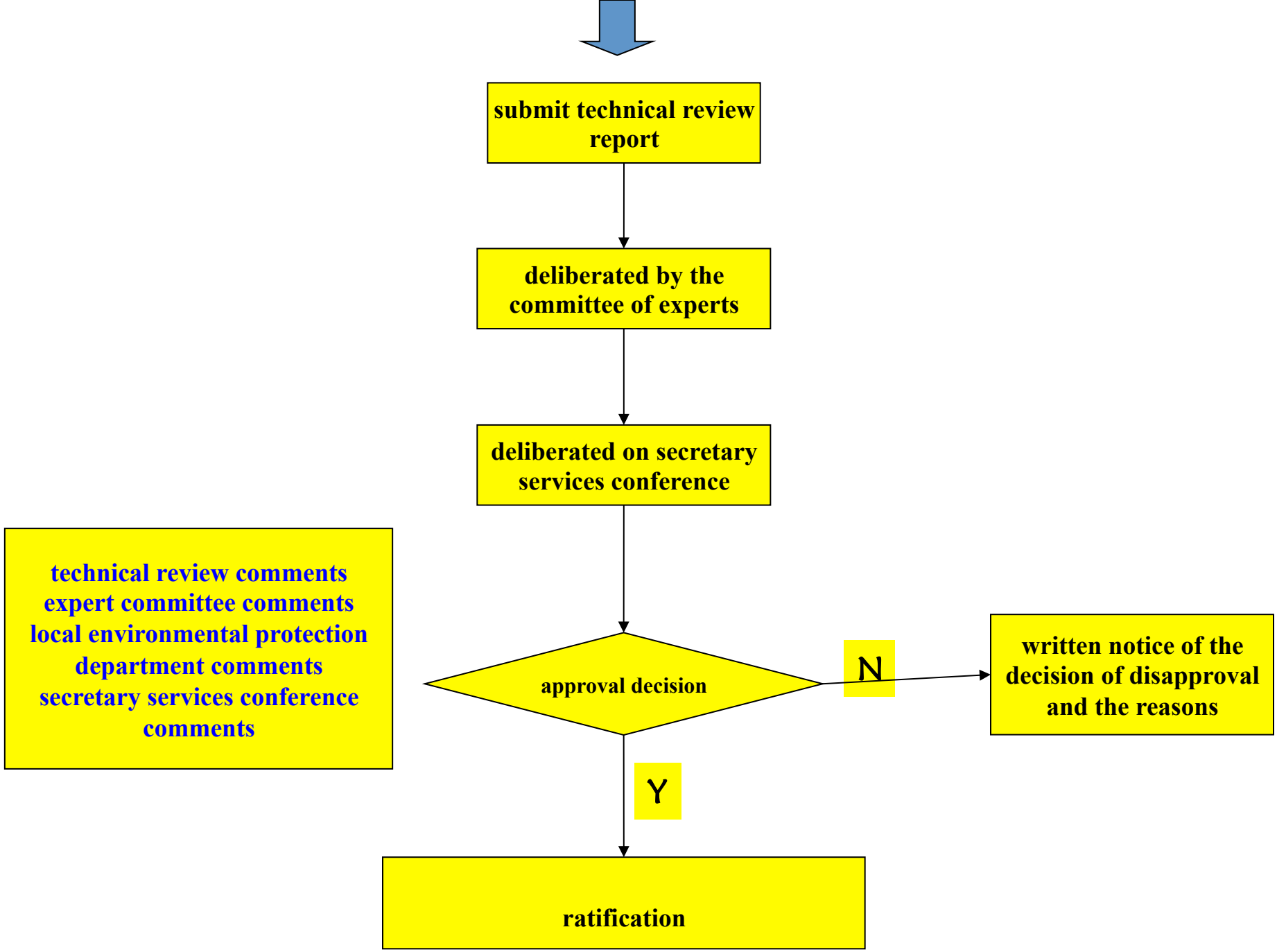
2014-06-08

单位：nGy/h

核电站	点　位	测值范围	平均值	运行前本底范围（当地原野）	结　论
秦山核电基地	秦山山顶	97.3-99.4	98.0	70.4 - 123.8	正常水平
	夏家湾	101.6-103.2	102.3	70.4 - 123.8	正常水平
	秦山镇	105.1-106.8	105.7	70.4 - 123.8	正常水平
	二期码头	90.9-93.9	92.6	70.4 - 123.8	正常水平
	秦联	103.3-105.2	104.0	70.4 - 123.8	正常水平
	杨柳村东	104.4-107.5	105.9	70.4 - 123.8	正常水平
	杨柳村	105.6-107.3	106.1	70.4 - 123.8	正常水平
	鸽山	88.1-92.5	90.3	70.4 - 123.8	正常水平
	武原镇	112.5-113.9	113.2	70.4 - 123.8	正常水平

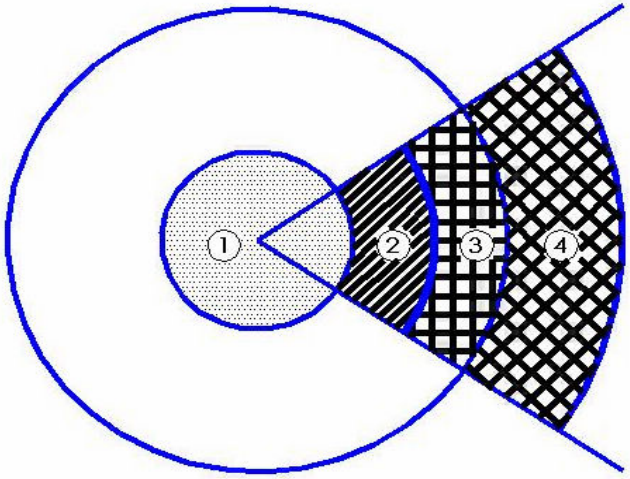
Reviewing Approach for Emergency Plan


submit application
format examination
qualified
N
notice the applicant
Y
accept, establish the project
consult the local environmental protection department
technical review, put forward questions
applicant answer the questions
Technical review dialogue, put forward questions again
qualified
N
Y


submit technical review report
deliberated by the committee of experts
deliberated on secretary services conference
technical review comments
expert committee comments
local environmental protection department comments
secretary services conference comments
approval decision
N
written notice of the decision of disapproval and the reasons
Y
ratification

Emergency Planning Zone		Main Protection Measures	Daya Bay NPPs	Qinshan NPPs
Plume Emergency Planning Zone	Inner zone	Hidden, evacuate, taking iodine	0—5km	0—3km
	Outer zone	Hidden, taking iodine	5—10km	3—7km
Ingestion Emergency Planning Zone		Food and water control	0—50km	0—30km

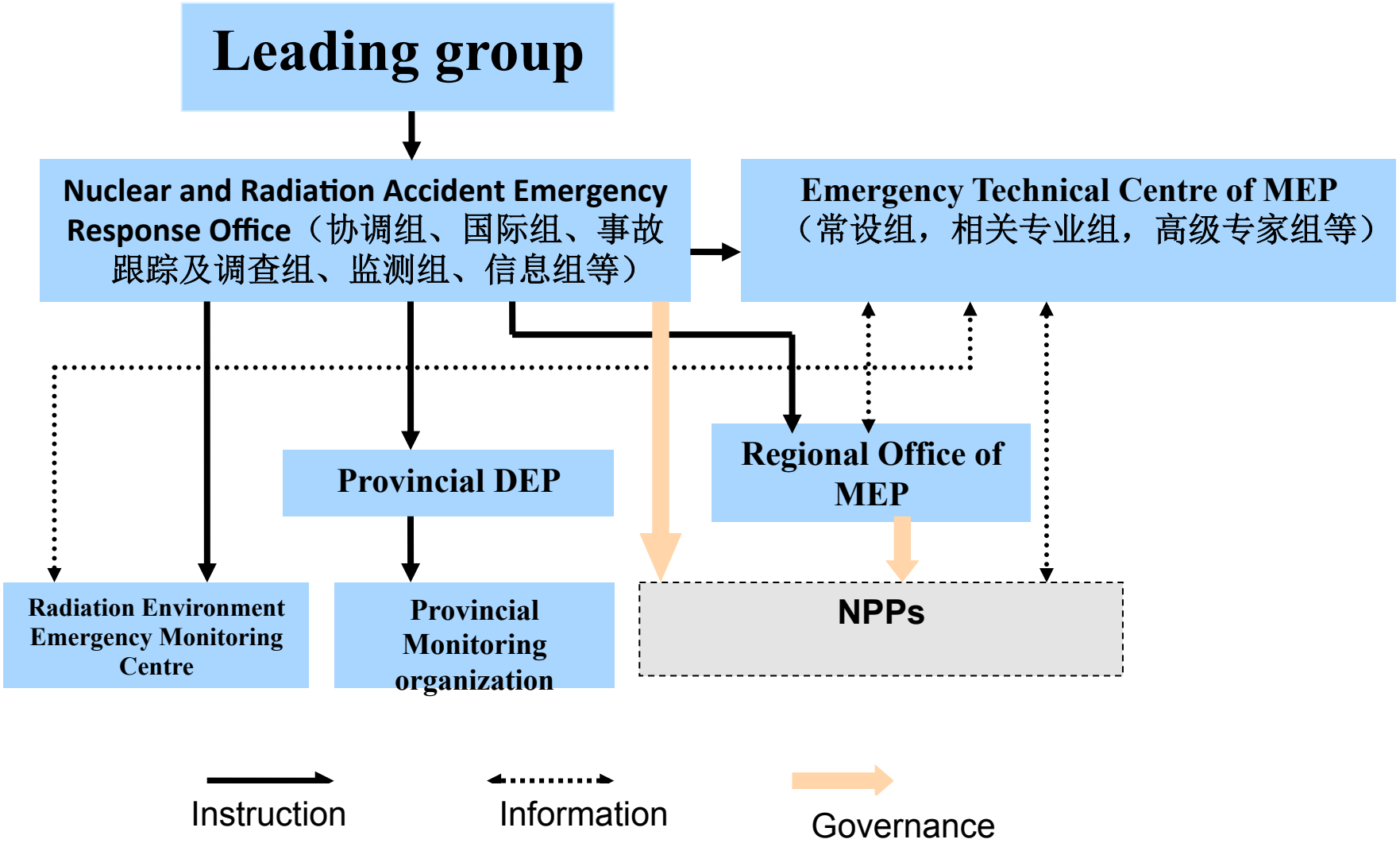
The emergency planning zone is corresponding emergency preparedness for nuclear facilities, the characteristics of accident analysis and the specific local conditions of the region. Once the real accident happened, it should be according to the actual situation, to determine the corresponding response action.



Exercises and Drill for Emergency Preparedness

	Single Exercise	Comprehensive Exercise	Joint Drill
NPP	**Once one year at least.** **The more exercises on communication and information delivering system.**	**Once two years**	●**Once before the first loading** ●**Once five years during operation**

Emergency Response of MEP


Leading group
Nuclear and Radiation Accident Emergency Response Office（协调组、国际组、事故跟踪及调查组、监测组、信息组等）
Emergency Technical Centre of MEP（常设组，相关专业组，高级专家组等）
Provincial DEP
Regional Office of MEP
Radiation Environment Emergency Monitoring Centre
Provincial Monitoring organization
NPPs
Instruction
Information
Governance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Accident Analysis

Accident Impact Asseeement

International Approach for Nuclear Accidents Emergency

- Convention on Early Notification of a Nuclear Accident

- Convention on Assistance in the case of Nuclear Accident or Radiation Emergency

- “Management Rules of Emergency Crossing the Boundary for Radioactive influence due to Nuclear Accidents” was issued by the CAEA in April, 2002
- China shall carry out obligations in accordance with the conventions
- and take corresponding emergency response actions in case of radiological impact of nuclear accidents trans-boundary.

In case of nuclear accidents had resulted in impact trans-boundary, the National Nuclear Accident Emergency Response Office shall collect the accidental information and notify it directly to or via IAEA to those countries or regions which are or may be involved.

The multilateral and the bilateral international cooperation may promote the personnel skill and information exchange, and learn the experience and lessons. Therefore, the governance level of nuclear emergency in China can be enhanced.

News

- **Agreement for Emergency Mutual Rescue Cooperation Framework Between the Nuclear Groups of Nuclear Power.(May 5,2014)**

- NPP Emergency Rescue Teams have been set up by China General Nuclear Power Group (CGN) and China National Nuclear Corporation(CNNC) .

Thanks