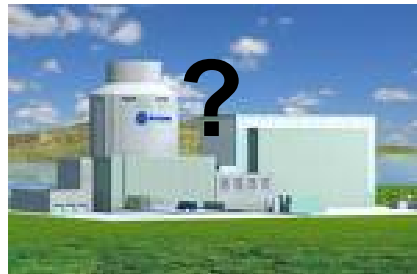


# The Regulator's role in achieving a balanced energy mix, with nuclear included



*Kevin Allars*

Director New Nuclear Build GDA  
Nuclear Installations Inspectorate

# Yes, I'm the Regulator

- ✓ **Independent of Government and the Industry:  
that's KEY**
  - To the process
  - To industry
  - To Government and other stakeholders (inc public)
- ✓ **I'm here to inject robust, independent, technical  
expert scrutiny**
- ✓ **My role – Protecting people and society from the  
hazards of nuclear activities**
- ✓ **I'm here to enable, but it has to be safe and secure!**

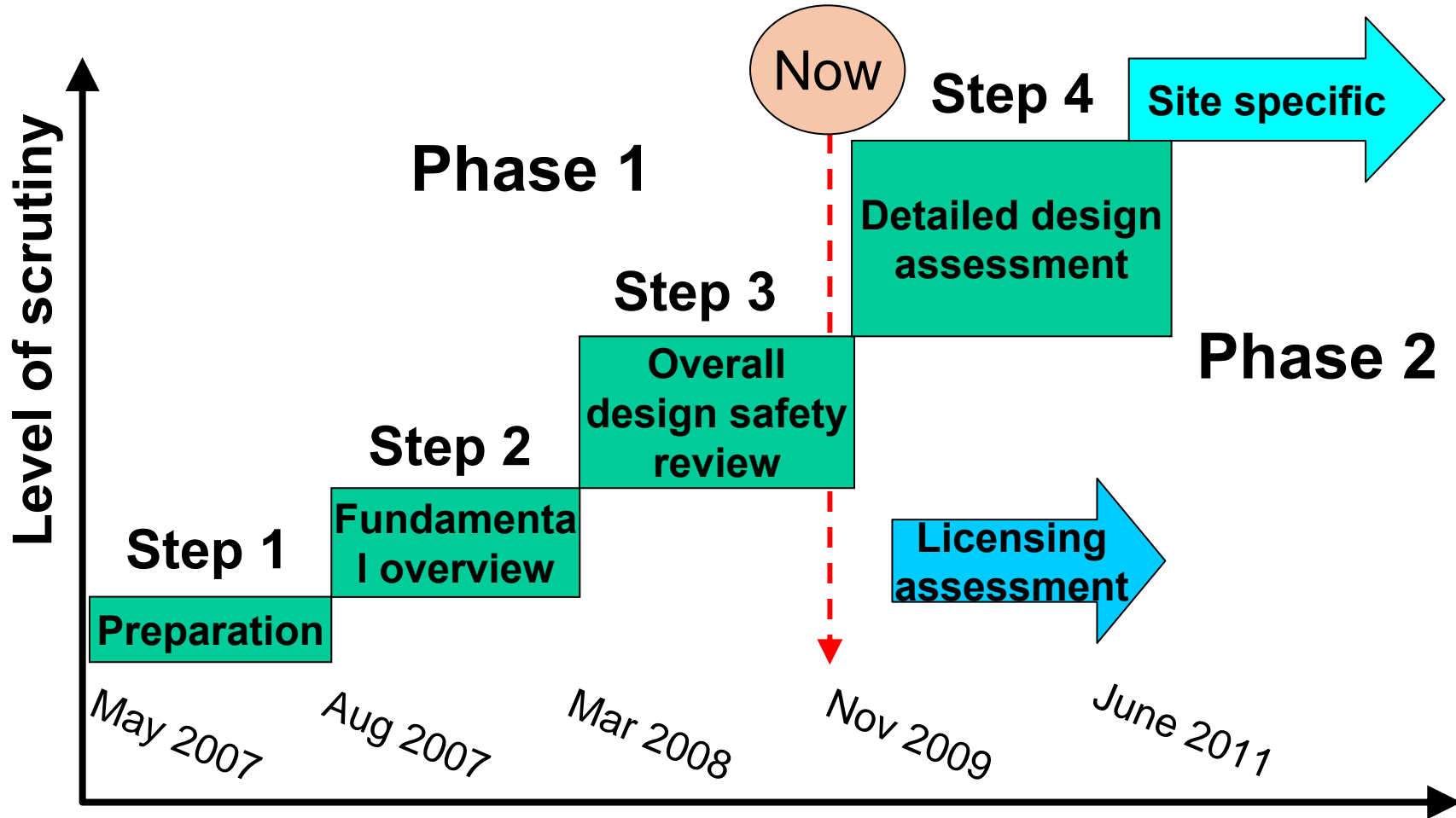
## What are we aiming for via GDA?

- ✓ **A meaningful GDA, useful to Government, vendors, potential operators, regulators and the public**
- ✓ **Efficient use of all available resource and leverage opportunities (inc international harmonisation)**
- ✓ **Improved clarity and transparency of process and outcomes**
- ✓ **Reduced regulatory risk for potential operators**  
(no requirement to revisit some technical areas during specific site licensing assessment process)
- ✓ **Improved confidence for public (in safety, environment and security issues)**

## **GDA Progress and Projection**

- ✓ **Step 1 Completed August 2007**
- ✓ **Step 2 Completed March 2008**
- ✓ **Step 3 complete for two designs**
  - **Westinghouse AP1000**
  - **EDF/AREVA UK-EPR**
- **Step 3 reports to be published 27 November 2009**
- **Step 4 complete June 2011 with a potential Design Confirmation plus, most likely, Exclusions:**
  - **as few Exclusions as possible, but as many as required (and with a defined clearance process)**

# GDA Timeline



# 17 Areas of Technical Assessment

**Internal Hazards**

**Probabilistic Safety Analysis (PSA)**

**Control & Instrumentation**

**Essential Electrical Power Systems**

**Mechanical Engineering**

**Radiation Protection & Level 3 PSA**

**Structural Integrity**

**Management for Safety & Quality Assurance**

**Radioactive Waste & Decommissioning**

**Environment Issues**

**Civil Engineering**

**External Hazards**

**Fault Studies**

**Fuel Design**

**Reactor Chemistry**

**Human Factors**

**Security**

## Benefits of GDA

- **Early engagement between regulator and vendor/operator**
- **Builds certainty for designer (vendor), operator, regulator and the public**
- **Increased openness and transparency**
- **Joined up regulation**
- **Dedicated resources (assists GDA and normal regulatory business)**
- **Public comment process and routine updates**
- **Independent Process Review Board**

## **‘Generic’ GDA Findings/Issues (to date)**

- **NII assessment resource – don’t start ‘till ready**
- **Managing effectively a parallel GDA and Licence Application process**
- ✓ **Improved the Programme and Project Management and delivery/monitoring metrics**
- ✓ **Positive early progress on key technical issues and necessary design changes, eg. C&I architecture**
- ✓ **International collaboration – design harmonisation**
- **Long lead item procurement and qualification**

## **But ND is Changing – Why?**

- **Because Society is changing**
  - So we as leaders need to respond to
    - **Climate and Energy issues**
    - **The thirst for information**
    - **BUT retaining independent scrutiny on safety, security and the environmental issues**
- **Most in Whitehall accept the need for a balanced energy policy with nuclear power playing a part**
- **Nuclear regulators need to**
  - **improve accountability and transparency**
  - **improve regulation (better regulation agenda)**
  - **ensure that appropriate regulatory resource is available**

# What is the Change?

- **A Nuclear Statutory Corporation (NSC)**
- **Single safety/security/safeguards/transport regulator**
  - Technically expert
  - demonstrably independent, open and transparent
  - clear common purpose
  - outcome focused
  - improved impact and leverage, and more influential
  - trusted and with the confidence of all stakeholders
- **Public Sector Body outside civil service**
- **Own independent Board**
- **Chief Inspector role defined in legislation**
- **Increased flexibility – salaries, structures, choices of suppliers**

## So What Will You See Different?

- **Transition and Transformation**
- **Maintenance and continuous improvement in demonstration of a respected regulator**
- **More effective and efficient in process**
- **Dynamic**
- **Open and Transparent (No surprises ....)**
- **Listening**
- **Responsive**
- **Integrated across all regulatory nuclear functions**

## Effects on New Nuclear Build GDA?

- **Already most of our info is on our website**
- **Open and Transparent**
- **Programme and Project working in place**
- **Metrics to measure us by are in place**
- **Now very nearly fully staffed**
- **Working well with Environment Agency**
- **Model for GDA now being looked at as one to replicate across the Nuclear Directorate, and esp into Phase 2 (Licensing and Construction)**

## Next Steps on Nuclear New Build

- **Step 3 GDA summary reports, with 35 technical assessment reports, published on 27 November**
- **Working well with EA through GDA and into Phase 2 (site licensing and construction (if appropriate))**
- **Joint Programme Office to transition to Phase 2**
- **Continued good relationships with**
  - Industry
  - Government
  - Other stakeholders (inc public)
- **Looking to a seamless transition into Phase 2**
- **Our June 2011 GDA is KEY to any CONSTRUCTION:  
→ I'm confident we can deliver that meaningful GDA**

# SO

- **We're here to enable (but I need to be convinced, and I'm solidly independent and robust!!)**

## More info on GDA

- **Detailed information at**

**<http://www.hse.gov.uk/newreactors>**

- **Step 3 Summary Reports and suite of Technical Subject Reports to be published on 27 November**

**Questions?**