

Timetable of the training module 4: Regulatory Control of Nuclear Site-Inspection on I&C System and Electrical Systems

	09:00-10:00	10:00-11:00	11:15-12:30	14:00-15:00	15:15-17:00	17:00-17:15
A – Monday	<p>A.1 Introduction to the course – basis and role of inspection in the overall licensing process <i>Phil Metcalf</i></p>	<p>A.2 Organisation and staffing of the regulatory body for inspection of I & C and electrical power systems <i>Peter Hughes</i></p>	<p>A.3 Regulatory review and assessment and the linkage to inspection <i>Phil Metcalf</i></p>	<p>A.4 Regulatory documentation <i>Peter Hughes</i></p>	<p>A.5 I&C Principles for Nuclear Facilities and Current Challenges <i>Mauro Cappelli</i></p>	<p>A.6 Summary</p>
B – Tuesday	<p>B.1 Safety requirements for electrical power systems for NPPs and research reactors <i>Peter Hughes</i></p>	<p>B.2 Analogue I&C Systems <i>Mauro Cappelli</i></p>	<p>B.3 Digital I&C Systems <i>Mauro Cappelli</i></p>	<p>B.4 Identification and classification of SSCs and safety assessment <i>Phil Metcalf</i></p>	<p>B.5 Classification of I & C and electrical power systems <i>Peter Hughes</i></p>	<p>B.6 Summary</p>
C – Wednesday	<p>C.1 Design guidelines for electrical power systems <i>Peter Hughes</i></p>	<p>C.2 Derivation of limits, controls and conditions and establishment of regulatory conditions of authorisation <i>Phil Metcalf</i></p>	<p>C.3 Design, conduct, reporting and follow up of inspection processes associated with electrical power systems and components <i>Peter Hughes</i></p>	<p>C.4 Example inspection programme for electrical power systems <i>Peter Hughes</i></p>	<p>C.5 Group discussion on inspection of electrical power systems <i>Peter Hughes, Mauro Cappelli</i></p>	<p>C.6 Summary</p>
D – Thursday	<p>D.1 . Design and software considerations for I & C systems <i>Peter Hughes</i></p>	<p>D.2 Application of FPGA based technology for I&C systems <i>Mauro Cappelli</i></p>	<p>D.3 Design, conduct, reporting and follow up of inspection processes associated with I & C systems and components <i>Peter Hughes</i></p>	<p>D.4 Example inspection programme for I&C systems <i>Peter Hughes</i></p>	<p>D.5 Exercise</p>	<p>D.6 Summary</p>
E – Friday	<p>E.1 Topical issues with inspection of I & C and electrical power systems <i>Peter Hughes, Mauro Cappelli</i></p>	<p>E.2 Round table discussion <i>Peter Hughes, Mauro Cappelli, Phil Metcalf</i></p>	<p>E.3 Test</p>	<p>E.4 Course evaluation and closure</p>		