




RFP 30809-VG	Q&A's - Development of E-learning modules on Spent Fuel Management (SFM) version 1																								
Question 1	Would it be possible for you to share one of the storyboards mentioned in it with our team?																								
Response	<table><tr><th>Slide number and title</th><th>Educational text</th><th>Commentary/narration</th><th>Illustrations</th><th>Notes</th></tr><tr><td colspan="5">Module 1 SFM Overview and Strategy</td></tr><tr><td colspan="5">Lecture SFM 1.1 General overview – options</td></tr><tr><td>Slide II-2 Nuclear fuel components</td><td><ul style="list-style-type: none">Nuclear fuel is composed of:<ul style="list-style-type: none">Ceramic pellets of UO₂ enriched in U²³⁵ about 10 mm in diameter and 10-15 mm height.The pellets are stacked in fuel rods made from Zircaloy that are about 4 m long.The fuel rods are assembled together in a fuel assembly can be handled as an entity.A 1000 MWe PWR core typically contains between 200 and 250 fuel assembliesApproximately 40 SF assemblies containing about 20 tonnes of uranium are discharged as SF every year.</td><td><p>The fuel material in a PWR is uranium dioxide, which has been compressed and sintered into small pellets. These ceramic fuel pellets are very stable. Before making pellets the uranium has been enriched in the fissile isotope uranium-235 to 3-5 %. The radioactivity of the pellets is so low that they can be handled by hand. Normally gloves are used to avoid making the pellets dirty prior to their insertion into fuel rods.</p><p>About 400 pellets are filled in 4 m long thin tubes of Zircaloy to make a fuel rod. Zircaloy is a very corrosion resistant and durable alloy that can be used in an operational nuclear reactor environment. The zircaloy tubes have an outer diameter of about 12 mm and are backfilled with inert gas, welded tight and slightly pressurized. The pellets are held in place by a spring.</p></td><td><p>Example of image to illustrate</p></td><td></td></tr></table>					Slide number and title	Educational text	Commentary/narration	Illustrations	Notes	Module 1 SFM Overview and Strategy					Lecture SFM 1.1 General overview – options					Slide II-2 Nuclear fuel components	<ul style="list-style-type: none">Nuclear fuel is composed of:<ul style="list-style-type: none">Ceramic pellets of UO₂ enriched in U²³⁵ about 10 mm in diameter and 10-15 mm height.The pellets are stacked in fuel rods made from Zircaloy that are about 4 m long.The fuel rods are assembled together in a fuel assembly can be handled as an entity.A 1000 MWe PWR core typically contains between 200 and 250 fuel assembliesApproximately 40 SF assemblies containing about 20 tonnes of uranium are discharged as SF every year.	<p>The fuel material in a PWR is uranium dioxide, which has been compressed and sintered into small pellets. These ceramic fuel pellets are very stable. Before making pellets the uranium has been enriched in the fissile isotope uranium-235 to 3-5 %. The radioactivity of the pellets is so low that they can be handled by hand. Normally gloves are used to avoid making the pellets dirty prior to their insertion into fuel rods.</p> <p>About 400 pellets are filled in 4 m long thin tubes of Zircaloy to make a fuel rod. Zircaloy is a very corrosion resistant and durable alloy that can be used in an operational nuclear reactor environment. The zircaloy tubes have an outer diameter of about 12 mm and are backfilled with inert gas, welded tight and slightly pressurized. The pellets are held in place by a spring.</p>	<p>Example of image to illustrate</p> 	
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During irradiation, processes such as neutron capture and β- and α- decay produce various concentrations of fission products and transuranic nuclides.</p><p>In general, the components in SF include fission products with half-life from a few days to millions of years; uranium, isotopes of the actinide elements (Np, Pu, Am and Cm), and activation products (C, Co, Ni).</p><p>The specific amounts of fission products and transuranic nuclides produced in a reactor depend on the mode of operation</p><p>Used fuel from light water reactors contains approximately (at average burnup 45MWd/kgU):</p><p>96% uranium (about 1% of which is U-235)</p><p>3% mostly stable fission products</p><p>0.9% plutonium</p><p>0.1% other long-lived fission products</p><p>0.1% minor actinides (americium, curium, neptunium).</p></td><td><p>Narration</p><p>During its stay in the operating reactor core, the nuclear fuel assembly changes its properties, in particular its chemical composition, its radionuclide inventory, its pellet structure, the mechanical properties (ex. ductility/brittleness) of the cladding and metallic structures of the Fuel Assembly itself.</p><p>Initially the fuel consists of UO₂ or UO₂+PuO₂. 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Question 2	Is it acceptable to submit a proposal with two profiles of Project Managers (a team), one of																								

	<p>them deputy of the other one as detailed below?</p> <ol style="list-style-type: none"> 1. A Project Manager of the Contractor with three (3) or more years of experience in leading comparable e-Learning development projects; and 2. A deputy Project Manager with technical knowledge on nuclear energy, sufficiently competent to develop and deliver the required e-Learning modules. <p>Will it be considered that the contractor meets the requirements:</p> <ul style="list-style-type: none"> • Provide evidence that the Project Manager and the key team have technical knowledge on nuclear energy and are sufficiently competent to develop and deliver the required e-Learning modules; and • The Project Manager of the Contractor shall have three (3) or more years of experience in leading comparable e-Learning development projects; “ <p>Mentioned in the RFP No 30809-VG chapter 6.5. Requirements for Contractor Capability from the Related Project Dossier Statement_of_work_E-learning_AGE_2017-08-21 VG.pdf? “</p>
Response	Yes, it is acceptable.
Question 3	<p>To clarify some questions we have regarding the requirement, would it be possible to arrange a telephone call with you and the stakeholders or SME/Project Manager or Technical Officer for the learning?</p> <p>Particularly for projects of this scale and importance, we have found it is extremely useful to speak directly with the client project team in advance of our proposal.</p>
Response	No, this will not be possible. It is not anticipated to arrange phone calls with the bidders. All questions need to be sent in writing to the responsible Procurement Officer at the latest 1 week before the closing date.
Question 4	<p>Lecture Storyboard: Would you be able to provide us one Lecture storyboard as sample during the bidding process - either the full content or a sample size? This will allow us to evaluate better the actual content to be designed and developed in terms of its structure, complexity, details and scope which in turn will help us provide a high-level design approach and strategies as part of our proposal.</p> <ul style="list-style-type: none"> • Project timelines: I would like to understand if the project schedule/timelines provided are open to negotiation; especially the timeline for Phase I.
Response	<p>Lecture storyboards examples are provided under question 1 above.</p> <p>The timeline schedule to receive the first draft of Phase I is two months after the contract signature. Then there will be a time for the IAEA to assess the product and to provide comments to the bidder to finalize the material (the final timeline is subject to negotiation). Then the final material will go through the internal IAEA approval process before proceeding with the subsequent phases of the project.</p>

Question 5	<ul style="list-style-type: none"> Being a custom solution provider, we continue to work with clients provided content, and work with Subject Matter Experts (SMEs) on a variety of content, including technical content in the area of Energy and Utilities. However, we have not worked on content specific to Nuclear Energy, although we would be able to work with SMEs and content provided by you to build effective eLearning. Please can you confirm that we would still be eligible to submit our bid/quote for this requirement, based on the above experience?
Response	Yes, it is enough knowledge to submit a quotation.
Question 6	<ul style="list-style-type: none"> Telephone Discussion: Lastly, I wanted to check if there is a possibility for a telephone discuss for queries and assumptions with your team during the bidding process if needed?
Response	No, it will not possible. Also see response to question 3 above.