


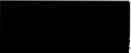
AWRE WORKING GROUP ON THE PEACEFUL
USES OF NUCLEAR EXPLOSIVES

PNE Project Stages

1. In accordance with the directions to the Secretary at the 16th meeting of the WGPNE the matrix showing the stages of a PNE project and illustrating the role of 'contractors' and 'consultants' at each stage (Annex A) is circulated herewith.

2. This matrix may be of assistance in listing the services relating to a PNE project, as discussed in WGPNE(74)58 of 3 May 1974.


Secretary to the WGPNE


6 May 1974

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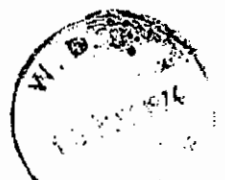
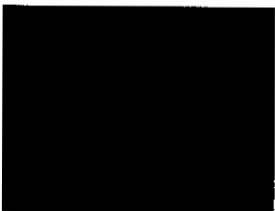
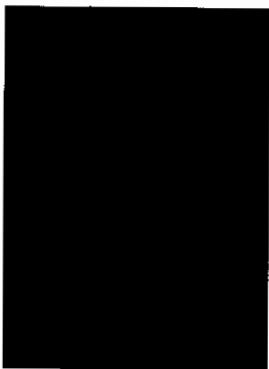
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SSDM
SSDM
SSPD

Others

Director
CMP
SSCD
SSCT
SSNA



AWRE Working Group on the Peaceful Uses of Nuclear Explosives

The sixteenth meeting of the Working Group will be held on Wednesday 2 May at 1030 hrs in the small conference room, Building [REDACTED]

AGENDA

1. Minutes of the fifteenth meeting of the Working Group
(WGPNE(73) M15 refers)
2. Matters arising
3. IAEA meeting in Vienna 22-26 April 1974 - [REDACTED] will report
4. Oil Storage on the Sea Bed
 - a. PAU Report 4/74 "The Market for Off-Shore Nuclear Geostorage of Hydrocarbons" (copy enclosed herewith)
 - b. Discussion with UKAEA on 1 May 1974
5. PNE Reviews
 - a. Additional material requested by UKAEA
 - b. Publication - state of progress
6. Future Work of the WGPNE
7. Any other business
8. Date of next meeting

24 April 1974

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Secretary to the WGPNE

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 25 APR 1974
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AWRE WORKING GROUP ON THE PEACEFUL
USES OF NUCLEAR EXPLOSIVES

Proposed IAEA Register of States able to
supply PNE-related Services

1. The report of the recent (22-26 April 1974) IAEA meeting of experts to consider procedures for the Agency to use in responding to requests for PNE-related services contains the following recommendation:-

"The Working Group noted that a number of States, whether or not able to provide explosive services, might be able to supply other services such as assessment and design capability. Accordingly it recommends that the Agency invite member States to indicate whether, for the purposes outlined in this document, they desire to be registered as PNE consultant States for such services".

2. The UKAEA, for whom AWRE's PNE work is carried out under contract, wishes to compile a list of services which the UK might offer so as to be in a position not only to respond to any IAEA invitation but also to be able to initiate action by the Agency's secretariat.

3. Could you let me have your suggestions (including nil returns), by 21 May please, of what services (a) AWRE (b) other UK organisations, might be able to supply. The only area excluded is that concerned directly with the supply of the explosive itself which will need separate consideration. This being so it may be helpful to think of services which might be supplied if another nation was to supply the explosive.

4. WGPNE(74)57 sets out an analysis of the stages in a PNE project made by the British members of the IAEA's Working Group. This may help in formulating ideas.

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6 May 1974

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POSSIBLE PARTICIPANTS

Stages in any PNE project (not necessarily consecutive)	Customer (effectively will be a nation)	States able to supply nuclear explosive services (supplier states)	Organizations able to supply other services useful in a PNE project (contractors)	Advisers - may be individual experts or organizations (consultants)	IAEA
4. Negotiation of explosive service - likely to begin during stage 3 and overlap with stages 5,6,7	NPT signatories are guaranteed services under Article V Costs are customer responsibility but Article V of NPT places limits on costs.	Suppliers convey terms and conditions including any modifications to detailed assessments deemed necessary to meet supplier state's responsibilities.	May assist	No role?	Advise on credibility of interface between contractor and supplier nation. Resolve any supply difficulty. Negotiate international observation agreements (this applies for bilateral operations also).
5. Invitation of tenders (bids)	Will do this. May seek help from supplier state or consultant.	One or more may be invited to tender for explosive service (see 4 above) or entire project	May be recipient of invitation unless complete project to be undertaken by supplier state.	Consultants may frame.	May help to frame? Will be involved with agreements relating to international observation.
6. Evaluation of tenders (bids)	Ultimate right and responsibility. Consultants and/or supplier state may advise. Tenderers bear their own cost in normal way.	May be asked to confirm tender compatible with explosive service requirements.	-	Consultants may assess.	Undesirable for Agency to be directly involved if, for example, it has arranged for appraisal of safety assessments (see 3).
7. Agreement of contracts	A party to	A party to	May be a party to.	May assist in negotiations.	A party to (international observation etc).
8. Negotiation of international agreements	Discuss with IAEA. A party to.	Discuss with IAEA. A party to.	-	Discuss with IAEA?	Co-ordinate and appoint any necessary experts eg for international observation. <u>Allocation of costs remains to be discussed.</u>
9. Execution of project	Afford appropriate services	Provide, supervise emplacement, choose detonation times, fire PNE.	Perform functions specified in contract.	Watching brief (monitor)?	Carry out international observation.
10. Assessment of results.	Carry out in conjunction with contractor and consultants.	Interested observer.	Assist	Monitor and assess.	Monitor and report.
11. Project termination	Publicly acknowledge completion of project.	Needs latitude to discharge any health and safety responsibility as defined in contract and other agreements.	End of contract	End of contract	Submissions to Director General etc completed.

Stages in a PNE Project

ANNEX A
TO WGPNE(74)57

POSSIBLE PARTICIPANTS

Stages in any PNE project (not necessarily consecutive)	Customer (effectively will be a nation)	States able to supply nuclear explosive services (supplier states)	Organizations able to supply other services useful in a PNE project (contractors)	Advisers - may be individual experts or organizations (consultants)	IAEA
<p>1. Preliminary review (first evaluation aimed to identify any major flaws quickly. Enables objective decision to be taken on whether or not to proceed with pre-feasibility study). Is use of PNE - Practicable? Safe? Economic? Legal?</p>	<p>May perform alone. May seek help from supplier state(s), contractors, consultants, IAEA. Costs are customer responsibility but may be largely borne by supplier states, etc.</p>	<p>May perform if asked. Detailed information on nuclear explosive properties unlikely to be crucial at this stage.</p>	<p>May perform a) at request of customer b) as a speculation</p>	<p>May perform.</p>	<p>May be involved if customer requests. Should be able to assist customer in making a precise formulation of the idea as the initial step in the preliminary review. Costs of any activities involving only a few man days of effort should be met from Agency funds.</p>
<p>2. Pre-feasibility study (full evaluation of all available data to enable an objective decision to be taken on whether or not to proceed with a detailed engineering feasibility study) Is use of PNE - Practicable? Safe? Economic? Legal?</p>	<p>May perform alone but will usually seek help from supplier states, contractors, consultants or IAEA Costs are customer responsibility</p>	<p>May perform if asked. May provide information on relevant external properties of available nuclear explosives</p>	<p>As 1 above but may need advice from potential supplier states.</p>	<p>May perform but will generally need advice from potential supplier states.</p>	<p>May advise especially on legal aspects. Costs of any activities involving only a few man days of effort should be met from Agency funds.</p>
<p>3. Detailed engineering feasibility study (field work and theoretical studies undertaken to increase total information to stage where objective decision can be taken on whether or not to proceed with execution of project). Is use of PNE - Practicable? Safe? Economic? Legal?</p>	<p>As 2 above but cannot be performed alone because information will be required from supplier state(s). Costs are customer responsibility.</p>	<p>Must be involved because properties of available nuclear explosives will enter into study.</p>	<p>As 2 above but <u>will</u> need advice from potential supplier state(s).</p>	<p>As 2 above. Specialized consultants may be engaged by the customer for health and safety studies independent of those made by supplier state(s).</p>	<p>As 2 above. Unless customer has expressed preference for particular supplier state. IAEA should invite each potential supplier state to indicate their interest in project. It is desirable that available safety assessments should be submitted for appraisal by ad hoc group of experts appointed by Agency. Costs of these appraisal activities should be met from Agency funds.</p>

AWRE Working Group on the Peaceful Uses
of Nuclear Explosives

ONE [REDACTED]

1. At the 16th meeting of the WGPNE, provisionally arranged for 28 March 1974 it is proposed to consider the PAU report on undersea oil storage, originally expected by the end of February 1974.

At present it is not clear when the report will be available and the provisional date for the WGPNE meeting is therefore cancelled.

A new date will be arranged as soon as possible.

[REDACTED] [REDACTED]
Secretary, WGPNE

5 March 1974

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7 MAR 1974
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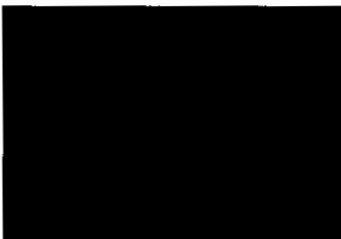
24 April 1974

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Secretary to the WGPNE

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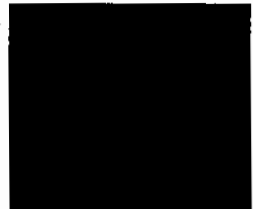
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