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Item ID Number 03970

Not Scanned

Author

Corporate Author

Report/Article Title Reports and Memoranda regarding Suggestion #306-77 - Herbicide Orange Disposal, 1978

Journal/Book Title

Year 0000

Month/Day

Color

Number of Images 6

Description Notes

Major Tremblay/EC/3491/yc/14 Jun 78/#704

file JK
9.

16 JUN 1978

EC

Suggestion - Herbicide Orange Disposal

Commander, US Army Aberdeen Proving Ground
Attn: STEAP-CP-M
Aberdeen Proving Ground MD 21005

Reference is made to suggestion number 306-77, "PRO - Disposal of Herbicide Orange," copy enclosed. This suggestion is no longer valid since all stocks of Herbicide Orange were incinerated under United States Environmental Protection Agency ocean dumping permits during the summer of 1977.

SIGNED

JAMES W. TREMBLAY, Major, USAF, BSC
Deputy Chief, Consultant Services
Division

1 Atch
Suggestion

CV _____
CC *JWT* _____

Red DLAA USAFDEHL 18 MAY 78

SUGGESTION EVALUATION

For use of this form, see AR 672-20; the proponent agency is Office of the Deputy Chief of Staff for Personnel.

TO: (Include ZIP Code) Commander, Kelly Air Force Base ATTN: Dir, Occupation & Environmental Health Laboratory San Antonio, Texas 78141	FROM: (Include ZIP Code) Cdr, US Army Aberdeen Proving Ground ATTN: STEAP-CF-M Aberdeen Proving Ground, MD 21005
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1. SUGGESTION TITLE PKO - Disposal of Herbicide Orange	2. SUGGESTION NUMBER 306-77
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ACTION TAKEN OR RECOMMENDED

<input type="checkbox"/> 4. APPROVED FOR ADOPTION DATE SUGGESTION WAS OR WILL BE PUT INTO EFFECT	<input type="checkbox"/> TOTALLY <input type="checkbox"/> PARTIALLY OR WITH MODIFICATION (Explain in Item 4) <input type="checkbox"/> ALSO RECOMMEND CONSIDERATION FOR WIDER APPLICATION AS INDICATED IN ITEM 4
<input type="checkbox"/> 5. ALREADY IN USE OR UNDER CONSIDERATION (Explain in Item 4 indicating whether this suggestion contributed to the action in any way)	
<input type="checkbox"/> 6. NOT APPROVED FOR ADOPTION FOR REASONS SHOWN IN ITEM 4	
<input type="checkbox"/> a. RECOMMEND ADOPTION, BUT APPROVAL NOT WITHIN JURISDICTION OF THIS OFFICE. REASONS FOR RECOMMENDATION ARE CONTAINED IN ITEM 4.	
<input type="checkbox"/> b. NOT RECOMMENDED FOR ADOPTION FOR REASONS SHOWN IN ITEM 4	
<input checked="" type="checkbox"/> 7. OTHER (Specify in Item 4)	

REASONS FOR ACTION TAKEN OR RECOMMENDED (If more space is needed, continue on reverse)

forwarded with request for evaluation per last portion of DA Form 1045 (Inclosure 1) dated 11 May 77, attached as inclosure 2. If a delay is anticipated beyond 30 days, please furnish information as to when a reply may be expected.

BENEFITS (Complete for all suggestions adopted or recommended for adoption)

<input type="checkbox"/> a. TANGIBLE (Show actual or estimated dollar savings in terms of man-hours or personnel spaces; estimated savings based on increased output, and/or materials, equipment or other resources saved; for the first year subsequent to adoption. Indicate cost of conversion and not first year savings)
<input type="checkbox"/> b. INTANGIBLE (Describe effect on operations, health, safety, welfare, or morale; and number of people and specific organizations affected. Based on criteria in AR 672-20, indicate whether significance is considered moderate potential value, substantial potential value, high potential value, or exceptional potential value and whether application is limited, extended, broad, or general)

DATE 1 May 1978	7. NAME, TITLE, & TELEPHONE EXT OF EVALUATOR J. LEONARD JACKSON AUTOVON 283-4878 Incentive Awards Administrator	8. SIGNATURE & TITLE OF RESPONSIBLE OFFICIAL <i>J. Leonard Jackson</i> J. LEONARD JACKSON Incentive Awards Administrator
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1. PROBLEM - Disposal of Herbicide Orange

2. SUBJECT OF SUGGESTION

15. SUGGESTION NUMBER

3. DESCRIPTION (Describe the Current Situation and your Suggestion for change or improvement. Include where and how it can be used, and identify estimated tangible/intangible benefits which would result from adoption.)

The US Air Force has approximately 2.3 million gals of Herbicide Orange which is considered unserviceable because it contains a toxic teratogen called dioxin or TCDD. They have spent several million dollars investigating various methods of reprocessing the material to remove the TCDD and also studying the destruction of the herbicide in an environmentally acceptable manner. The AF now plans to contract for the incineration of this material on the incineration vessel Vulcanus. This suggestion proposes that the AF incinerate ^{or burn} the herbicide in the ^{distillation plant or} power ~~plant~~ ^{plant} on JI or another similarly remote installation and recover the fuel value of the mat^{erial}. In this manner the cost of destruction can be saved, the mat can be disposed in an environmentally acceptable manner and the fuel value of this resource can be recovered. Herbicide Orange probably has a BTU value or fuel equivalent of 75-80% of fuel oil. Johnston Island probably burns thousands of gallons of fuel oil per day. The herbicide should be miscible with the fuel oil and

SUGGESTION FINISHED? Refer to Instruction Numbers 2 & 3 on reverse side of this set.

NEED MORE SPACE? Reverse entire set. Pull out long carbons. Reverse and reinsert long carbons. Continue under Item 16.

DA FORM 1045 SEP 72

REPLACES EDITION OF 1 AUG 67, WHICH IS OBSOLETE.

Rec'd 22 Apr 77 COPY 1

could be blended into the fuel feed stream with a pump at a rate of 10-20% of the fuel oil. At this rate, probably 1000 to 2000 gals/day could be burned. The flame temperature should destroy at least 99% of the TCDD. An additional 99% dilution can be obtained as the products of combustion are emitted from the stack. The stack height should be extended 30-40 ft to ensure the dilution factor as well as assuring that the residual HCl or TCDD is not deposited on the Island. With the prevailing winds on JI, this should be adequate to reduce the environmental impact & preclude deposition on the Atoll. If the wind speed is too low or in the wrong direction or there is rain or an inversion, the pumping can be stopped. There are no women on JI so that the teratogenic effect should be non-existent. The corrosiveness of the HCl on the boiler system should also be minute because the low humidity-high temperature of the effluent gases. No condensation should take place within the boiler system. This proposal will be cost effective & save over \$1,000,000. The only costs appear as follows: Pump & Tank, etc - \$10,000; Extend Stack - \$10,000; New EIS - \$30,000; Extend Annual Maint of stockpile & Operation Costs - \$300,000. The cost avoidance or savings should be (see attached)

DISPOSAL OF HERBICIDE ORANGE

as follows: Incineration contract - \$1,000,000; Fuel oil @ \$.25/gallon - \$500,000. In conclusion, the suggestion is feasible, will not create an environmental impact on JI atoll ecosystem and is cost effective. The proposal should not be controversial because it utilizes ^{an unserviceable} waste product as a resource in an effective manner rather than creating a disposal problem.

This suggestion should be evaluated by the Occupation and Environmental Health Lab, Kelly AF Base, San Antonio, Texas and the Office of the Deputy Assist Secretary (Logistics), Department of the Air Force, Washington, DC 20330.

ROUTING AND TRANSMITTAL SLIP		ACTION	
1 TO <i>Incentive Awards Adm Civ Pers Div</i>	INITIALS	CIRCULATE	
	DATE	COORDINATION	
2 <i>Bldg 305 Aberdeen Proving Ground, Md. 21005</i>	INITIALS	FILE	
	DATE	INFORMATION	
3	INITIALS	NOTE AND RETURN	
	DATE	RECON- VERSATION	
4	INITIALS	SEE ME	
	DATE	SIGNATURE	

REMARKS

No local activity is qualified to evaluate this suggestion. Suggest forward to Kelly AF Base, Antonio, TX or Ofc of Dep Asst Sec, DA Air Force, Wash, DC 20330.

Do NOT use this form as a RECORD of approvals, concurrences, disapprovals, clearances, and similar actions

FROM <i>Man Prod Engr Br</i>	DATE	<i>5/11/77</i>
	PHONE	<i>2268</i>

OPTIONAL FORM 41

AUGUST 1967

CSA PPMR (43CFR) 100-11.208

5041-101-01

GPO: 1975-588-906

*Munitions Division
ESL, Bldg E-9330
APG, Edgewood Area*