

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8007150710 DOC.DATE: 80/07/08 NOTARIZED: NO DOCKET #
 FACIL:50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250
 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
 AUTH.NAME AUTHOR AFFILIATION
 STIEGLITZ,W.O. Interior,Dept.of, Fish & Wildlife Service
 RECIP.NAME RECIPIENT AFFILIATION
 VARGA,S.A. Operating Reactors Branch 1

SUBJECT: Responds to NRC 800619 request re endangered,threatened or
 proposed to be listed species in plant area,Jacksonville
 office will provide list after review.Advises of change in
 consultation procedures..

DISTRIBUTION CODE: C002S COPIES RECEIVED:LTR 1 ENCL 0 SIZE: 2
 TITLE: Environ. Comments.

NOTES:

	RECIPIENT ID CODE/NAME		COPIES		RECIPIENT ID CODE/NAME		COPIES	
			LTTR	ENCL			LTTR	ENCL
ACTION:	A/D OP. REACT		1		VARGA,S.	17	1	
	PARRISH,C.	18	1		GROTENHUIS,M	05	1	
INTERNAL:	ENV ENG BR	09	1		I&E	07	2	
	NRC PDR	02	1		OELD		1	
	<u>REG FILE</u>	01	1		SIT ANAL BR	10	1	
EXTERNAL:	ACRS		1		LPDR	03	1	
	NATL LAB	20	5		NSIC	04	1	

JUL 17 1980

TOTAL NUMBER OF COPIES REQUIRED: LTTR 19 ENCL 0



United States Department of the Interior

FISH AND WILDLIFE SERVICE

75 SPRING STREET, S.W.
ATLANTA, GEORGIA 30303

JUL 8 1980

Mr. Steven A. Varga
Chief, Operating Reactors Branch # 1
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Varga:

This acknowledges your correspondence of June 19, 1980 (received June 27, 1980), requesting information on whether any endangered, threatened, or proposed to be listed species may be present in the area of the Turkey Point Plant Unit Nos. 3 and 4 in Dade County, Florida.

We have assigned log number 4-1-80-A-219 to this project, and we request that you refer to this number in all future correspondence.

We have forwarded the information you provided to our Jacksonville Area Office for its review. Upon completion of this review, a list of species that may be present in the area of the proposed action will be provided. If a biological assessment is required, we will also indicate the information it should contain.

In an effort to streamline the consultation process under Section 7 of the Endangered Species Act, the Fish and Wildlife Service has made a minor change in consultation procedures. Pursuant to our letter of March 19, 1980, your agency should request from the Area Office--not from the Regional Office in Atlanta--a list of threatened or endangered species that may occur in your project areas.

Under former procedures, the request for a list of species was mailed to the Atlanta Office and forwarded to the Area Office. With this new arrangement the request can be sent directly to the Area Office which will respond directly to the Agency. This will save time as well as reduce paperwork in the consultation process.

For those construction projects where listed species may occur, a biological assessment is required. Those assessments which determine a "no effect" to the species should be sent directly to the Area Office with a copy to the Regional Office. Those assessments which determine a "may affect" situation, and therefore request consultation, should be sent to the Regional Office.

COO2
S
1/0

8007150 710

P

1. *Chlorophyll a* (Chl *a*) is the primary photosynthetic pigment in most plants and algae. It is a green pigment that absorbs light energy in the blue and red regions of the visible spectrum.

2. *Chlorophyll b* (Chl *b*) is an accessory pigment that absorbs light energy in the blue and orange-red regions of the visible spectrum. It transfers energy to Chl *a* for photosynthesis.

3. *Carotenoids* are a group of pigments that absorb light energy in the blue and green regions of the visible spectrum. They include carotenes and xanthophylls. Carotenoids transfer energy to Chl *a* and also protect the photosynthetic apparatus from damage by excess light.

4. *Xanthophylls* are a subgroup of carotenoids that absorb light energy in the blue and green regions of the visible spectrum. They include lutein, zeaxanthin, and antheraxanthin. Xanthophylls play a role in photoprotection and energy transfer.

5. *Lutein* is a common xanthophyll pigment that absorbs light energy in the blue and green regions of the visible spectrum. It is found in many plants and algae.

6. *Zeaxanthin* is a xanthophyll pigment that absorbs light energy in the blue and green regions of the visible spectrum. It is involved in the xanthophyll cycle, which helps protect the photosynthetic apparatus from damage by excess light.

7. *Antheraxanthin* is a xanthophyll pigment that absorbs light energy in the blue and green regions of the visible spectrum. It is involved in the xanthophyll cycle and is found in some algae.

8. *Phycocyanin* (Phc) is a blue pigment found in cyanobacteria and some algae. It absorbs light energy in the orange and red regions of the visible spectrum and transfers energy to Chl *a*.

9. *Peridinin* (Per) is an orange pigment found in some algae. It absorbs light energy in the blue and green regions of the visible spectrum and transfers energy to Chl *a*.

10. *Alloxanthin* (Alx) is a yellow pigment found in some algae. It absorbs light energy in the blue and green regions of the visible spectrum and transfers energy to Chl *a*.

• 26 •

Figure 1. The effect of the number of trials on the number of correct responses. The number of correct responses was plotted against the number of trials for each condition. The number of correct responses increased with the number of trials for all conditions. The number of correct responses was highest for the condition with the highest number of trials (10 trials) and lowest for the condition with the lowest number of trials (2 trials).

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The number of transformed cells was determined by the number of colonies obtained on the selective medium. The results are the mean of three independent experiments. Error bars represent the standard deviation.

1. *Chlorophyll a* and *Chlorophyll b* were determined using a spectrophotometer (Shimadzu UV-1601) at 663 nm and 646 nm, respectively. The concentrations were calculated using the following equations: $\text{Chlorophyll } a = 12.7 \times \text{Absorbance at } 663 \text{ nm}$ and $\text{Chlorophyll } b = 22.9 \times \text{Absorbance at } 646 \text{ nm}$.

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

2. Once the problem is identified, the next step is to define the objectives and goals of the project. This helps to clarify what needs to be achieved and provides a clear direction for the work.

3. The third step is to develop a plan or strategy to address the problem. This involves breaking down the problem into smaller, manageable tasks and determining the resources needed to complete them.

4. The fourth step is to implement the plan. This involves putting the strategy into action and monitoring progress to ensure that the objectives are being met.

5. Finally, the fifth step is to evaluate the results of the project. This involves assessing the outcomes against the objectives and identifying any areas for improvement or further action.

[illegible]

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971). The *Chlorophyll a* and *Chlorophyll b* contents were expressed as $\mu\text{g mL}^{-1}$ of the extract.

3

We appreciate your interest and concern in the preservation of listed species.

Sincerely yours,

Walter D. Stigley

Acting

Regional Director

1. The first part of the document is a list of names and addresses of the members of the committee.

2. The second part of the document is a list of names and addresses of the members of the committee.

3. The third part of the document is a list of names and addresses of the members of the committee.

4. The fourth part of the document is a list of names and addresses of the members of the committee.

5. The fifth part of the document is a list of names and addresses of the members of the committee.