

11 May 2011

# Vía Verde Natural Gas Pipeline

## Agenda

1. Project Alignment.
2. Change in Project Purpose.
3. Barges at Costa Sur and Aguirre Power Plants
4. ESA issues.
5. 106 issues.
6. Eco Electrica Site Visit
7. FHWA information requirements
8. Mitigation.


Exemption (b)(6) - UMFS

KATHY KENDALL - FHWA + 3

1. Exemption (b)(6)

INTRO.

2. DANNY P. PRESENTATION from old OPT

- a. INTRO. SCOPE IS TO SUPPLY NAT GAS TO 3 POWER PLANTS.
- b. FINAL ALIGNMENT TO CORPS 23 MAR ~~FWD~~ TO ADDRESS ISSUES  
'FROM SHPO & FWS ~~INT~~ INTERAGENCY MTG 2 MAR. 1 1 1 <MORE>
- c. SHPO - REALIGNED @ VEGA BATA. 15 APR 2011 ALL DATA PROVIDED
- d. EFH - REPORT PROVIDED 15 APR 2011. MINIMAL IMPACT.
- e. FHWA - (1) UTILITY AGREEMENT SHA, DTOP, PRAH 12 APR 11 → PROVIDE TO FHA FOR NEEDED APPROVAL. (2) CONSTR GUIDELINES AMENDED MAY 9<sup>th</sup>, REQUESTED MTG W/ FHA. (3) REPT MTG TO PROVIDE DRAWINGS. ~~F~~
- f. FAA ENDORSED 1 APR 2011 W/ <sup>3</sup> CONDITIONS: 'EXPERT W/ HDD, JD IN ROW, \_\_\_\_\_.
- g. PIPELINE CONSTRUCTION W/ IN KARST ARE REVISED.
- h. FWS. MAR 12<sup>th</sup> STUDY PROVIDED MAR 12<sup>th</sup> IN ADVANCE OF PA FOR VARIOUS SPP <LISTED>
- i. CORPS. ~~IS~~ ADDITIONAL INFO 25 FEB; LTR ON AVAILABILITY OF NATURAL GAS 11 MAR 11;  
\_\_\_\_\_ PRESENTATION from NEW (
- k. ALIGNMENT (1) AT ADJUNTAS - TO AVOID RESERVATION EAS (2) UTUADO ACROSS RIVER FOR PULL-OUT (3) CAMBALANTE METERING, MOVED TO ISLAND; (4) LA ESPERANZA MANATI - HDD FOR HISTORIC SIDE; (5) MANAI KARST AREA - MOVE TO  MISSED MOTOGES. (6) PABO DEL INDIO - MOVED FOR HISTORIC (7) VIA VERDE (8) PR 22 & PRS - DESIGNED NEW INTERCOURSE SO REROUTED UNDER PATH CONSTRUCTION
- l. VIA VERDE AMENDMENT OF 1990 POLICY EDITION (GOING TO) (FHA)
- m. MITIGATION - READY TO DISCUSS. ISLAND MITIGATION 311 PER PERMIT

### 3. PROJECT PURPOSE

a. PURPOSE IS AS STATED IN PERMIT APPLICATION, SPECIFICALLY

§ 1.4 OF JPA, ~~AND~~

b. FWS: PDFS SHOW CONNECTION TO INDUSTRIAL PLANTS? THE PROJECT IS AS DESCRIBED.

c. ~~THE~~ LARRY -

d. <sup>3</sup> ~~3~~ CUMULATIVE; COMMITMENT RESOURCES; GET TOGETHER

### 3. ALIGNMENT

a. HDD AT UNION CARBIDE - HDD NEAR SALT MARSH.

PT 1 → HDD W/IN MARSHES AREA: + PIPE RACK ABOVE? + CAN

YOU RACK VS. BURY

WHY NOT RACK IT FOLLOW EXISTING

b. PT2 LANDFILL MOVED FROM POTENTIAL HAZMAT'S DISPOSAL <sup>UNION</sup> CARBIDE  
DIFF IN PDF & OLDER FOTO. PROJECT.

c. NORTH - EXISTING ROADS, BOTTOM IS CREEKS

? IS PIPE FOLLOWING TOP OF RIDGE OR FOLLOW COUNTER

d. <sup>PT#3</sup> EASEMENT. (~~PT#3~~ ADJUNCTS)

e. ADJUNCTS NORTH - MINOR AS - PIPE ON RIDGE, MINOR CHANGES BY DESIGNER. → LIKE TO HAVE SHAPE FILE

f. UTUADO - FHWA NEEDS HOW IMPACT TRAVELLERS. PROTOCOLS

a. ~~WHY~~ ASKING CARATTERAS for 50' permanent ROW? RECOMMEND HAVE ROW PEOPLE AT MEETINGS. → ]

g. <sup>PT#1</sup> EXPLAIN UTUADO TO AT FOREST - W/IN MITICA

h. ~~Soprano~~

PT#5 Soprano for community - ETH + FWS ... ~~lowest~~ class of community

i. ~~ARECIBO~~ ARECIBO - GOING UNDER RIO SANTIAGO DIVERSION

j. ARECIBO AIRPORT → ARECIBO LANDFILL - PEM

- NOT PR 22? AWAY FROM PR 22

- NOT SO PR 22 BECAUSE HAZMAT

K (CONT.)

? PR 22 IS LIMITED ACCESS - NOT MUCH COMMUNITY ...

DISCARDED: COMMUNITY, INFRASTRUCTURE, UTILITIES - POWER + WATER,

eg. AQUADUCTO

R BARCELONATE

Q. LA ESPERANZA - HDD PULLBACK

RT #11 RIVER MANATÍ - IN RIVER

RT #12 MARTI KARST - OPEN TRENCH, THROUGH MINGOTE ... + ACCESS

PDF 63 ~~of~~ + PIPE ~~ALTERN~~ FOLLOW

#13 MARTI - ALONG FOOTHILLS ... ~~DOING~~ YOU SAID BORING - IS

HABITAT FOR MANY SPP - WE AGREE NO NEED SURVEY SINCE

BORING - NOW NO SURVEY

K ISLA PASARELA → VECIA BASA

- AVOID HISTORIC.

- ALSO MITIGATION AREA FOR HIWAY - LOOKING FOR LOCATION

Q. TOA BASA

M. LEVITTOWN

- DURING CONSTRUCTION

- PADS → CONDUCTED SURVEY OF CORALS IN WATER, ... PADS

SOUTH OF PIPELINE, NOT

#16 - PULLBACK FOR CROSSING IS POSSIBLE MITIG FOR BACARDI -

- LATERAL TO PALO SECO

- FLEX TANK -

- 2

O. SOFT PARALLEL TO SERVICE ROAD

#17 AVOID CONSTRUCTION OF ROAD → ~~BEHIND~~ FHA: PUTTING IN SOUND WALL ALONG ROUTE

THEN PARALLEL TO APERACI:

OR TALKING TO ~~FHA~~ - 17

#18 - UNDERFLOW DAM DUE TO EXPLOSION - IF EXCAVATE OIL

LEAKAGE - TALK TO EPA

~~FOLLOWING~~ CASAS CREEK CHANNEL,

SUBJECT

1 CUCHARILLAS

MAY MOVE PIPE

DEBY

4. 106 -

- CORPS WILL SEND LTR TO SHPO ON 1B. -- NEED ENGLISH -- □
- IN THE "FIND OUT WHAT WE KNOW"
- IA NOT DOCUMENT... (W/ 1B CAN SEE IF ADEQUATELY.
  - WILL LOOK AT PLATEAU AREAS
  - RESOURCES DEEP.
  - PASA INDIO SITE ... WAS DELINEATED FOR SR22, BUT PIPELINE
  - WILL KNOW ~~OUCE~~ FIND OUT. THIS MONTH -- □

5. FHWA. ?

- ✓ HAVE DRAFT POLICY. CANNOT SIGN DRAFT POLICY UNTIL NEPA COMPLETE.
- ✓ ~~CONFIDENTIAL~~ DRAFT INTERAGENCY AGREEMENT
- LOCAL AUTHORITY + PREPA WORKING DETAILED.
- PREPA WILL SEND DRAFT POLICY
- PRSTA

6. PARGES @ COSTA SUR FSRU'S

- ✓ PREPA CHARTER IS TO GENERATE POWER. ANY PROJECT PREPA CONSIDERS ~~RELATED~~ AND NOT RELATED TO VILA VERDE
- ✓ MARCH 7<sup>TH</sup> SAID SOURCE OF GAS
- ✓ SIMILAR TO WHAT IS IN ALT ANALYSIS? *let's camp*

7. Eco ELECTRICA SITE VISIT

- ✓ 73,000,000 - NOT CLEAR IF EcoELECTRICA CAN SUPPLY
- ✓ PREPA WILL SELECT WHICH PLANT + FUEL TO GENERATE less cost kWh. I HAVE TO RELY ON ENGINEERS THAT WILL WORK. TODAY COSTA DE SUR
- ✓ WE ASK FOR 2<sup>ND</sup> GASIFICATION PLANT VS KEEPING STANDARD - AND THE A FROM 73,000,000 + 71,000,000 (E) (EcoELECTRICA NOT NEED). NO WAY TO COMPLY W/ UPCOMING EPA ROUNDS. - IF NO GAS NOT ABLE COMPLY →

- FWS
- ✓ FERC PERMIT SAY 12 SHIPS - 93,000,000 ... MODIF ADDS
  - 2 GASIFICATION PLANTS + 12 SHIPS ... WHATEVER HAPPENS TO GAS BETWEEN PLANTS IS PREPARED, 100 ~~AS A RESULT~~ UP TO 25 SHIPS.
  - ✓ → Eco ELECTRICA ASKED FOR MTG NEXT WEEK ON BO
  - ✓ CORPS - OUR CONCERN IS WHETHER NEED ~~FOR~~ Δ BO FOR THIS.
  - ✓ 2009 APPLICATION HOLDING SINCE DISPERSION MODEL Δ, AND NEEDS VALIDATION, SO FERC CAN
  - ✓ FOR 2<sup>ND</sup> ~~STEP~~ STORAGE TAX
  - ✓ Eco ELECTRICA, SERVING AS FOLLOWING.
  - ✓ FWS: ~~WANT~~ BUILDING PROJECT FOR JUST PART OF TOTAL.
  - ✓ GIVES FLEXIBILITY.

## 8. ~~HDD/SAFE~~ ESA

- a.
- FWS WAITING FOR INFO ON AQUATIC RESOURCES
  - ~~CORPS~~ FWS PROVIDING TECHNICAL ASSISTANCE
- b. ~~HDD~~
- BENTONITE NON TOXIC - BUT IF SPILLED CAN SUFFOCATE FISH
  - SOMETIMES OTHER ADDITIVES. - MAY HAVE TOXIC — [ ]
  - PULLBACK CAN BE ~~AS~~ AS LONG AS 1/1000 - 100' JUST ROLLERS, BUT ALSO EQUIPMENT TO HANDLE.
  - ~~WHAT~~ WHERE IS WATER COME FROM? — [ ]
  - 'WILL DISPOSE ~~THE~~ SLURRY FROM SUMP? — [ ]
  - IF ON MARSH, NEED WORKPAD FOR PULL-BACK.
  - eg: MPEO, PULLBACK IS 5 ACRES, MOST IS WETLANDS, NEEDS ADDS TO IMPACTS — [ ]
  - ALSO ACCESS ROADS.
- ~~CORPS~~ FERRARI EVANS: ~~THE~~ CONTRACTOR MAY BE ABLE TO DO LESS INTRUSIVE — SO MAY NOT BE FULL
- WANT TO SEE BORINGS.

### C. STREAM CROSSINGS

- please label the stream crossings
- MAYBE NOT ALL STREAMS IDENTIFIED - USGS HYDRO LAYER NOT  
SHOW SAME DETAIL AS USDA'S SOIL.
- PREPA 29 JAN SAYS PERMANENT STREAM BANK PROTECTION  
"MAY BE REQUIRED"
- e.g. Rio PELLEJAS - HOW WILL BE DONE? ANSWER? ~~MAY BE~~ CORPS  
MAY ALLOW CONTRACTOR TO DO LEAST INTRUSIVE  
- EROSION? E.G., TRENCH BREAKERS TO  
PREVENT <sup>WATER FOLLOWING</sup> ~~USE~~ OF PIPE

d. ROW. w PERMANENT 50' ~~ROW~~ ... ROW MAINTENANCE, E.G. VEGETATIVE MAINTENANCE. HOW DONE IN SENSITIVE AREAS.

e. ~~PIPE WILL FOLLOW~~ THROUGH KARST ~~SE?~~ (1) PIPE FOLLOWING SURFACE (2) WHAT DO WHEN HIT A VOID, WHAT IS VOID SPACE PROTOCOL? ANSWER - IS IN EIS CHAPTER 8. (3) VEGETATION NOT GROW BACK

### f. WHAT IS LEFT -

- a. CONSTRUCTION SHEETS SHOW ALL STREAMS, + SENSITIVE
- b. CONSTRUCTION METHODS + HDD IN

### g. EESA REVIEW -

- (1) - WE WILL PROVIDE TECHNICAL ASSISTANCE COMMENTS TO CORPS.
- (2) - PLANTS: \* PDF, <sup>SHOULD</sup> IN NORTHERN KARST SHOWS TRENCHING VS. BORE IN MOGOTES.  
\* PARA LA ROSA - BA SAYS NO EFFECT, ATTACHED REPORT SAYS IN ACCESS ROAD, ALSO IF TRENCH MOGOTES.  
\* NOT ACCESS W/ MANLAA'S - MANLAA IS "INSIGNIFICANT OR DISCOUNTABLE ..." YOUR EVALUATION SAYS NOT ~~PRESENT~~ THAT UNDER INDIRECT SAYS POSSIBLE LOSS OF HABITAT, SO AVOIDER EFFECT. ; ~~SAME~~ CANNOT USE 1 SIZE FIT ALL NOT FIT ALL PLANT SPP.

(3) HAWK. ~~(1)~~ WE DID NOT ASK FOR NESTING SURVEY AND IS INTENSE STUDY, ~~ALSO~~ STUDY SAYING NO NESTING HABITAT NOT SUPPORTED, BUT IS HOME RANGE

(b) LOSS OF HABITAT IS NOT TEMPORARY,

(c) PLANTING 3 TREES NOT APPROPRIATE,

Q: HOW ADDRESS? AVOID - e.g. PLACES WHERE YOU MOVED OFF OF PRIO. IN NORTHEAST KARST AVOID THE KARST. WE TALKING ABOUT / HOME RANGES FRAGMENTED.

WE WOULD USE BO FOR PRIO

WHERE ~~IS~~ FHA. WE ARE LOOKING AT MAY EFFECT

DO NOT SEE JEOPARDY.

(4) PARROTT. STUDY <sup>METHOD</sup> WAS FOR RAPTORS, SO CANNOT RELY ON THAT REPORT. WE WILL DO OUR OWN ANALYSIS, YOU ARE IN PRIO. WE DO NOT ANTICIPATE A MAY ~~ADVERSE~~ ADVERSE, BUT ~~NOT USE~~ WILL LOOK AT DATA WE HAVE. (~~AND~~ NOT ASK YOU TO SURVEY) SO THE DEVIATIONS FROM PRIO A CONCERN.

(5) NIGHT JAR. CONSTRUCTION DURING BREEDING SEASON. REGROWTH OF VEGETATION TOUGH IN KARST. ~~(MORE COMMENTS)~~ TWO ALIGNMENTS COULD BE CONSIDERED; ~~(SHOWED)~~. FISHLE IS DIVIDING / FRAGMENTING HABITAT. ~~DOUBT IT IS~~ IS ALTERNATIVE THAT MAY AVOID MAY AFFECT.

(6) ROAD - WE CAN COORDINATE SITE VISITS FOR NEW ALIGNMENT.

(7) PR BOA - DO NOT UNDERSTAND ANALYSIS, WE BELIEVE QTY OF HABITAT UNDERESTIMATE.

(8) SEA TURTLES - EVALUATE LEVITTOWN BEACH, YOU SAY DNR HAVE SOME DNR ISSUES. ~~NEST IN~~ HOW WORK AT NIGHT. BUT SAW WORK THAT TO UNDERSTAND MANLAA.

▷ (9) NORTHEAST KARST ... CAN MOVE TO PR-22? WOULD REMOVE HAWKS, BOA, ETC. ISSUES?

▷ (10) PRIO - IF COULD MOVE, AVOID ~~2~~ HAWKS - BOA.



◇ (11) PR-10 MITIGATION AREA.

Q - IF CAN MOVE ALIGNMENT, ~~MAAAAAA?~~ NO, BUT REALLY REDUCED

# OF SPP. Q IF NOT? WILL ~~BE DONE AT~~ DO IT RIGHT BUT WILL

DEDICATE RESOURCES TO IT BUT CANNOT GIVE DATE. BUT CORPS NEEDS COMPLETE INITIATION PAGE

• WANT TO ~~MEET~~ MEET ON DETAILS.

MAY 26<sup>TH</sup> 1 PM

NMFS

1) PA DOES NOT ALLOW US TO <sup>JOSE + ERH</sup> EPH

YOUR MEETING W/ PRD <sup>NOT SECTION 7</sup> NOT HABITAT EVALUATION SECTION - NEED TO

LOOK @ POTENTIAL IMPACTS ON TURTLES IN WATER. WE HAVE

CORALS AT MOUTH OF RIVERS. SEDIMENT EROSION PLAN SUBMITTED

TO CORPS NOT SUFFICIENT. PLEASE CONTACT ME, YOU ARE

CLOSE ENOUGH TO WATER TO CONCERN ME. WHEREVER YOU

DOING CROSSINGS: PANUELAS & LEWITOWN.

9. MITIGATION.

- WORKING ON CONCEPT

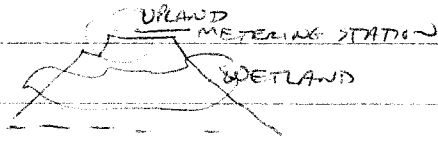
ADJUNTAS



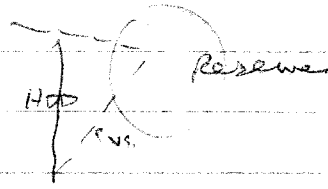
ADJUNTAS

PERMANENT COND EASEMENT

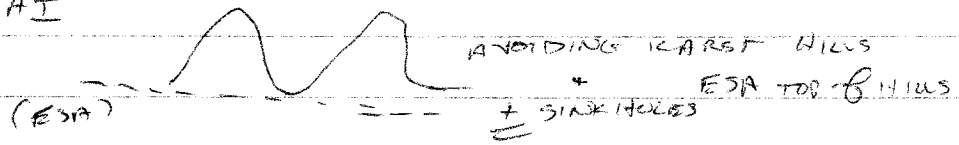
CAMBACI



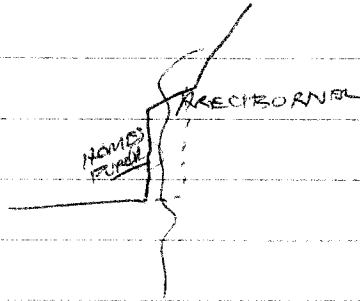
MAATI EXPERANZA



MANAI



UTUADO



VEGA BAJA

