Ligansons

Construction Frank Start, France To. 50-260

Chapter Lin British

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Reserv Rate:

July 21, 1970

Inspected by:

O. P. Conyoll, First Excilities Laurentor

An emmanaced inspection the made of the IPAT construction site on the dates shown shows. Partitly construction is about 55% or mylete or of July 9. 1970. Complemented progress has slipped an actionted fear months belief the original schedule. The labest dalay was caused by a strike of construct tion compenture which begins on Jude 3 and ended on the first of July.

The impossion was achieved principly to sevice the Quality Asserted fragment and procedures in use at the construction pite and included an impossion town of the facility. Some deficiencies had been noted in the impossion recepts desiry the provious inspection, Quality Seminary, sufficiently received and Quality Control impossion records and Quality Control impossion records and complete at the time of this inspection. The inspection is indicate that the QA/QG program is being applied in conformance with Supplicate that the Design and Ambiguis has a cutiffed "Mildrest Peal Recovery First Quality Systems Formaty."

Construction problems noted during the inspection include Look of corolation of the feel oberage and high level there a percept valle kines welding defects and evidence of ground pater increasing in the less activity whate valle and conyon entry to the fuel storage valle. The licensee's evaluation and perclution of those problem will be followed on future idepositions.

### DISARIES

# A. Daysona Combaried

# Comment Plackets Company (50)

W. H. Mendell, Henogor Plant Engineering and Heintenease S. G. Sapies, Mint Hanager

R. W. Lambert, Managar Englacowing Ken Handsen, Project Englacor (LL)

# print the sublime 7th

rate Dring, Series Construction Insporter

#### o, Come of Temporation

The purpose of the remounced inspection was to review concludation projects and the applied quality Assummed Program. Structural phones of nontraction were observed and quality control records and nachanical conjugants records were checked on a simpling basis.

### O. Prolest Made

in. Comes about the the project the thouse the complete. The effect of the four used compression strike is suit being fult, or a bright parameters of the excitence must be either jobs and the excitence will being being boild the bright of some principles of the court of boild bring boild to be shown as a second of the court of the boild before to be about a second week felly.

Campon thill pours have been completed to the Gl' lavel. This is above the top of the interior campon will. The control were floor ped and one 24' section of the south well was being poured on the dates of the inspection. The Thering Building and Service Building are 92% complete and would have been released to 6% on a conditional acceptance basis in June 15 it had not been for the strike. Turnover to 6% for beneficial acceptance is not president.

## D. Oprovinskied

The site organization counted as described in Supplement 3, Easign and Assignis Hadard. Jim Anderson, Where Quality Counted Engineer, has note and to the Floor main edited in Los Angeles. The Chief Quality Control Engineer conics is now Mr. Ends Endag. Not. Anderson is cuill the temperature cariner for Ectioning the quality control of this project and is expected to return to the site on or about August 1, 1970.

unile not a formal change in the organization, inspection findings indicate that Mr. Mendall, -1700 and Mr. Handson, GR -1880 are working together on a quality assertance casts team of the site. One apparent result has been a notable decrease in time between the ideasification of a problem and initiation of corrective action.

#### the Construction

Comercha piceconnt and Quality Control mecounts were mariners. The boots code in ACN 318-63 but recent pours have hed to mack ACN 605-59 because the more six because her expected and .

It was observed that concrete batch plant operation and concrete placement was help musitomed by both a Halius Lakeratory reprocurative and a 1980 engineer.

The Inspector reviewed the slady, temperature with 5% by sufficient.

The 23 day empressive attempth tests for ecupes well pours varied from 3500 to 4500 pet. The minimum requirement is 3,000 pet observed. 

Stan 3500 to 4500 pet. The minimum requirement is 3,000 pet observed. 

In mas noted that has in boing added to the classical at except in a characteristically 

plant and the min value becomenture is being held at except in 50%. 

Concrete temperature after discharge from the miner and immediately 

all the yards for pure base construction immediately after placement bud 

all the yards for pure base construction immediately after placement bud 

all the yards for pure base construction immediately after placement bud 

all the call GC.

Comercia curing procedures aus es falleus:

- L. Bonny water over concrete on coth as it is not hard enough to provent eresion from the vator. The concrete is kept not for at least 72 hours.
- 2. Icasen force after 24 hours and allew under to get to walle.
- Tourlay is used on all out-empound arous and the barlay is hope wat.

# 2. Construction Problem

The extent of the size water faturates problem because evident during the strike shutdown. Ground and sub-surface water has collected in the Law, cladifing, and fuel receiving storage vaults up to a depth of 30°.

GI has retained the consulting geologist firm of Dames & House to ovaluate the problem and make recommunications for corrections. The geologists' opinion is that the extensive blasting that encurred during

cate proposetion has council the entited and to tocome a local sub-surface water sink. They have recommended a b-disor products growing in arous where known locals occur through the base plant as a corrective measure, and the drilling of walls so that they can be angled to lease the local mater level as a presentive measure. The first wall will be contrast with a local wall drilling organization and the first wall will be charted must wook. The licenses a evaluation and and corrective action velating to this problem will be coviously on feature impactions.

## d. Velding and Dinley

Unleing and siping quality control soccode were reviewed and shop and field welding operations were observed. Welder confidential accorde are no-to-date and the basts QC meand entitled "Machinery and liquipment installation Check Mat" (saidabe that weld procedures and paper installation procedures are followed and are suddend.

The Sh-OB column piping was solected for a spot chack sucht for metallication, welder, welder qualification, walding procedures, and LDE toulatedou in addition to a series of the QS records. Its developing in their performance and record keeping requirements the accord.

of field sudit records show that one problem area was decepted in the last two conthe. Field wolds on 1/5" discours sample limes were found to have exceptive weld penetration resulting in partial blackage. All 1/3" value were reinspected and repaired per a Fluor repair procedure approved by CH - REND.

The acceptability of the fact vanit and high-lavel weste storage visit eladding is still a point of contention between Fluor and GE. Fluor impretors accepted the repaired walds on May 9. ON valued to accept the cladding and retained J. Dland, Manager, GE Matala Joining Operation as Consultant. PROO is to obtain an independent walding consultant and is acting as negotiator in the dispute.

Employering findings indicate that compon call liner imptallation to boing performed in compliance with the revised chadding specifications and is closely sudiced by Fluor and ON inspectors. For emaple, all subscattractor valdors are qualified by Fluor with test coupons being enhanced to Hapteller for engalaction.

mild record cotals as of May 21, 1970, should the Collowing:

Shop wilds - 2615 | Repaired - 161 | Profited - 161 | Repaired - 161 | Repaired - 6 | Redictorphis - 137

Procest undiagraph vectors indicate that Fluor is compling emil disaster piping on a more representative basis in meeting the 10% undiagraph requirements.

# H. Promising and Stemand

Matericia receiving order true checked and aborage areas inspected.
Deviation requests granabed in the last two month paried ware found to involve above specification corrected for the first of the suries of six derivation tests or the absence of existed wold detail drawlings.

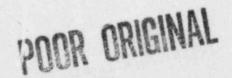
A loca of inext atmosphere on a primery and secondary cold trap was noted during the provious imagestion. Of novious imagestion requires and evaluated the selecty significance of the apparent loss of facts atmosphere. Of informed the inspector that they do not have an inext atmosphere requirement for the cold traps and shot the cold traps increased that introjet on a convenience restar than a requirement.

# I. Sh Provin Audite

Analysis and inspection records available for review include Flace and GS inspection log books, quality control records, machinary and equipment installation checklists, Making laboratory concrete test records, FMFD trip reserve, and deviation requisits. Social modits were ende by trip reserve, and deviation requisits, Social modits were ende by R. S. Hoody, R. Habbal, RECO Auditor and Consultant, in May and by E. S. Hoody, Consult Manager, RERD, on July 7.

The licenses's inspection and passety such records indicate compliance with the program described in Supplement 3 of the Midwest Fuel Resovery Plant Resign and Analysis Report.

Placer Construction Site Management and Quality Control Inspectors attended 63 training sections during the states period. Mr. Smaller coated that Place personnal indicated an increased understanding of the most for states quality control procedures on the MANA project.



### Markette to Minute tina

Inspection findings used discussed with the Section and Mr. Mandall of the benchuster of the inspection. The prince of the inspection and the the untor interesting problem and this plane for evaluation and convection. This will be followed on Subura inspections. The covernt grains of vault cladier, regains and acceptance emitted and discussed as soled in Section 5 of this report.

The improved quality and ovailability of Comitty Communical and Comitty