

INTER-OFFICE MEMORANDUM

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AT

DATE October 3, 1967

FROM O. A. Fincand

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AT *O.A. Fincand*
Hickletown Construction

JOB NO. 7100

SUBJECT Kaiser Engineers' Weekly Field Activity Report

Transmitted herewith is the subject report for the week ending October 3, 1967.

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Distribution

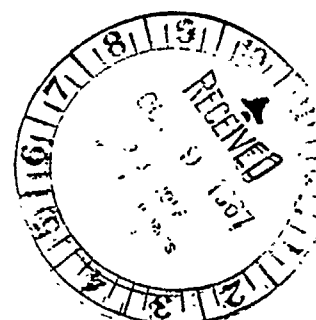
Armco

D. C. Osborne
C. G. Kramer
F. W. Barnes
T. R. Foley
P. R. Smith
D. Cox
J. S. Lotz
J. J. Delaney

Kaiser

R. J. Wolf (Oakland)
W. F. Bort (Oakland)
D. A. Daly
F. I. Kast
J. W. Irwin
V. L. Frankson
A. L. Gordon
H. C. Boucher

cc: Central File
Kaiser Reading File
Armco Reading File



KAISER ENGINEERS
WEEKLY FIELD ACTIVITY REPORT
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WEATHER: Cold and cloudy during the first three days of period with warming trend following.

Client: Armco Steel Corporation

Location: Middletown, Ohio

TEMPERATURE: Maximum - 84 degrees
Minimum - 42 degrees

Job Number: 6471

JOB VISITORS

W. E. Burger, H. F. Sparks, S. Montel
R. J. Wolf, S. Rookun, D. H. Wheeler,
F. W. Starrett, W. Wasson

SUMMARY FORCE REPORT

	Kaiser Engineers <u>Exempt</u>	Kaiser Engineers <u>Non-Exempt</u>	<u>Subcontractors</u>	<u>Foothill Electric</u>	<u>Total</u>
Management	5	3		1	9
General Supervision	16	3	23	6	48
Field Engineering	46	27	14	14	101
Warehs. & Mtl. Control	4	8		1	13
Survey	2	22	4		28
Office Srv. & Repro.	1	6			7
Clerical			16	19	35
Craft *	—	<u>1,723</u>	<u>1,250</u>	<u>722</u>	<u>3,695</u>
TOTAL	74	1,792	1,307	763	3,936

* Average for week of men on payroll.

Average for week of Crafts is as follows:

Kaiser Engineers	1,614
Subcontractors	1,195
Foothill Electric	<u>684</u>
Total Crafts Working	3,493

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GENERAL COMMENTS

Our present electrical manpower of 725 men with an average absentism of 7 percent is sufficient to meet the requirements of Foothill on Project "600". During the past week 500 Foothill electricians were employed in the Hot Strip Mill and we are beginning this week to cut the manpower down in certain areas, and are placing these men on necessary work in the Slab Mill. Due to the increased manpower, we have been able to perform bridge crane wiring simultaneously on four units in the Soaking Pits and Hot Strip Mill. The other electrical subcontractors also have sufficient manpower at this time.

Although we presently have the required number of Pipefitters on KE payroll; we have, until the last few days, been short of Welders. The situation has been alleviated; however, with another compliment of Canadian Welders bringing our total to 115. It is our understanding through a Charleston, West Virginia Pipefitter on this job that the Union Carbide strike is about to be settled and that within a weeks time we will probably lose 100 men. Another week or two of their present manpower would have left very little grease piping to complete. Considerable progress has been made with these people, however, we believe that we can obtain 50 men from the Ford situation by Tuesday, October 10.

Two problems occurred during this week that has delayed progress. The first was a faulty coil in the F3 finishing motor requiring the removal of the rotor and the replacement of the coil. The motor should be back on the line Monday, October 16, and would delay the testing of that unit by little over two weeks. In testing the furnace cooling water system from the pump house, excessive pressure was exerted on the water cooled lintels at the reheat furnaces and caused damage to the lintel box, the brickwork surrounding it, and damage resulted to refractories by water. It appears that at least two weeks will be required to repair the damage.

Considerable progress has been made throughout Project "600" with improvement in some areas of the Hot Strip Mill.

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PROJECT PROGRESS

1. HOT STRIP MILL

- 1.1 Excavation and Backfill: 380 cubic yards of excavation was completed during the period for a total to date of 1,106,922 cubic yards.
- 1.2 Concrete: 135 cubic yards of concrete was placed during the period for a total to date of 209,599 cubic yards. Concrete pours consisted of the skip hoist car puller foundations and electrical duct encasement at the Green Coil conveyor facility. Remaining concrete is estimated at 447 cubic yards at the Hot Strip Mill.
- 1.3 Structural and Miscellaneous Steel: Good progress was maintained during the period on miscellaneous steel in the Hot Strip Mill Area. During the period, progress was continued on the 8" handrail near column line 1. This work is scheduled to complete next period. Framing for all of the power operated roll up doors is now complete. Erection of the three slab transfer cars in the slab yard was completed during the period and electrical progress on these cars is now underway. Erection was also continued on the two roll transfer cars. These cars are near completion except for remaining electrical work. Installation of floor grating in the pusher area continued during the period. 5 tons are remaining to be installed. Leveling plates were installed for the slab reject car and the rails have been set in place. Grating and plate installation in the downcoiler area was continued throughout the period. This installation is proceeding satisfactorily in support of mechanical installation. Progress also continued during the period in the roll shop on plate and grating installation at the work roll lay down area and the roll assembly area. These areas are now 90% complete. An average force of 80 men is presently engaged in miscellaneous steel installation work and with continuation of this force during the next six weeks will almost complete the remaining 350 tons to be installed.
- 1.4 Roofing and Siding: The temporary end wall in the boiler area south of boiler #3 is now 50% complete. Installation of this end wall is scheduled to complete in two weeks.
- 1.5 Heating and Ventilating: During the period, sheetmetal work was continued on bag houses #10 through 13. Sheetmetal work on bag house 5 and 15 is now complete. All bag house sheetmetal work is scheduled to complete next period. Electrical progress continued during the period on bag houses #1, 2, 5, 14 and 15. Completion of remaining bag houses is dependent on the amount of electrical progress maintained in these areas. Bag houses #1, 3, 4, 8, 9 and 14 are complete electrically.

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Bag houses #8, 9 and 3 are operational and #4 bag house was tested during the period and punch list items are being completed. Foothill Electric estimate completion of electrical work pertaining to bag houses by November 15. Steam piping to the heater coils was in progress during the period at bag houses #8, 9 and 4. Steam was turned on and tested through the heater coil at bag house #8 during this period. At the Clarifier Plant, installation of heating and ventilating duct work was in progress during the period. Three gas fired heating units were set in place at the clarifier building. At the slab yard scheduling office, insulation of the overhead duct system continued during the period. This work is now 60% complete. In the main mill aisle, all diffusers have been installed for the extractor director room, the R2 director room and the finishing mill director room. At the downcoiler director room, installation of the piping and electrical work for the air conditioning unit was initiated during the period. The coil conveyor director room air ducts are now complete and insulated. Completion of this unit is expected in the near future. During the period, Kaiser forces worked on completion of the downcoiler and furnace extractor pulpit air conditioners, thus completing all pulpit units along E-line.

- 1.6 Mechanical: Richleay continued throughout the period with an average work force of 75 men in the Hot Strip Mill. In the furnace area, installation of the #3 pusher unit was continued with completion scheduled for next period. Alignment of the remaining four motors at tables #9 through 12 was in progress. Clean up of bearing seals, covers and side guides at tables #3 through 7 is almost finished and introduction of lube oil #4 to the bearings was started during the period. In the rougher area, remedial work was continued on the edger drive adjustment mechanisms for E2, E3 and E4 edgers. During the testing of these mechanisms, it was noted that the drive motors draw excessive amperage. The mechanisms are being dismantled and the brass bearings and thrust washers cleaned and scraped to improve clearance and friction conditions. The extent of this rework is unknown at this time; however, project engineering is investigating this problem with United. In the downcoiler area, direction of all downcoilers and associated equipment is almost complete. Progress is continuing on auxiliary motors and magnetic brakes. In the coil conveyor area, bolt up continued on structural bents and stringers for conveyors #7 through 10. Installation of chains was continued throughout the period at conveyors #3, 4, 5, 6, 8 and 10. In the finishing mill area, coupled tests were in progress and continuing as required. Rework of finisher #6 and 7 screwdowns was completed. During the run-in tests for the finishing mill 5 drive end pinion stand, the drive end-bearing for the drive motor failed. Further testing of finishing mill #5 will be delayed until the bearing can be re-babbitted at the factory and re-installed. The finishing mill #3 drive motor is also being dismantled and repaired because of a faulty stator winding. In the roll shop, the chock and coupling extractor cars

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were erected and are awaiting electrical hook-up. The check tilter has also been set in place and ready for grouting. At Scale Pit #3, progress was continued on the installation of the wet scale removal system. During the past week, emphasis was placed on installation of idler sprockets and chain installation in the bottom of the pit. The "A" frame structure at the north end of the pit is near completion. The following uncoupled tests were accomplished during the period: rougher #1, rougher #2 and rougher #3 inching drives and the furnace cooling water pumps. Coupled tests were accomplished on the rougher #1 side guide and the reheat furnace #1 extractor. Check out of the P50 and P550 computers for operation of the rougher #5 and rougher #6 screwdown, the rougher #6 entry table and the rougher #6 automatic roll change sequence was accomplished. Westinghouse continued throughout the period with area sequence checks in the R6 area.

- 1.7 Piping: During the period, 6,035 linear feet of pipe was installed for a total of 275,400 linear feet. The remaining quantity to complete is 72,927 linear feet. Major piping systems worked on during the period were: hydraulic system 18, high pressure descaling, mill water, plant air, chemical systems, heating and ventilating, downcoiler air and instrumentation. 11,041 feet of the 27,600 feet of instrumentation piping has been accomplished to date. Lube oil #4 circulation has been satisfied and is now being tied in to the bearings on the pusher side of the furnace for use in coupled tests. Morgoil #1 has permanent oil in the system and is ready to support coupled tests. Grease systems #17, 18 and 19 in the finisher area were completed during the period. The one remaining Sier-Bath pump for lube oil #5-1 was returned from the factory after rework and will be re-installed next Monday. One Ingersoll-Rand air compressor arrived at the job site during the period. Installation of the soleplates and compressor is now in progress, however, the after coolers for this compressor have not arrived yet. Progress was continued during the period on alignment of twelve Allis-Chalmers pumps in Scale Pits #1, 2 and 3 during the period. The Allis-Chalmers representative is at the job site for this alignment exercise. Improved progress was evident during the period on high pressure descaling water piping. During the period, eighteen welds were accomplished on 2" through 24" diameter piping with seventy-five welds remaining.
- 1.8 Electricals: Foothill Electric Corporation installed 30,800 lbs. of exposed conduit during the period for a total to date of 1,295,700 lbs. or 94% complete. 7,200 lbs. of embedded conduit was installed for a total to date of 1,509,300 or 96% complete. 36 terminations were accomplished on the 2.4 KV power cable for a total to date of 434 terminations. 44,000 feet of low voltage cable was installed for a total to date of 1,351,000 feet for an adjusted completion of 77%. 600 low voltage terminations were made for a total to date of 22,000 or 71% complete. 10,000 feet of control cable was installed for a total to date of 1,461,000 feet or 79% complete. 1,400

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control cable terminations were accomplished for a total to date of 40,800 or 71% complete. 19,500 feet of computer cable was installed for a total to date of 6,570,500 feet or 70% complete. 200 computer cable terminations were made for a total to date of 21,700 or 72% complete. 2,953 lbs. of lighting conduit and 4,600 feet of lighting wiring was installed during the period. 525 lbs. of structural grounding was installed for a total to date of 128,800 lbs. or 96% complete. 2,000 feet of television cable with 60 terminations were installed during the period.

- 1.9 Miscellaneous Subcontracts: In the Clarification Building, Ohio Valley completed installation of mechanical equipment except for the sludge filter blankets which will be installed after initial check-out of equipment. No progress was evident on the Walker Processing equipment during the period.

Billbrey Masonry Contractors completed the #3 pedestrian tunnel enclosure during the period. Their work is now essentially complete except for minor punch list items.

Moeschl-Edwards continued with good progress during the period on rolling door installation in the Hot Strip Mill. Five doors were measured for fabrication and one remains to be measured. 49 doors have been installed in the Hot Strip Mill with 23 remaining to be installed. Further work on motor installation for power operated doors is pending an assignment of work because of a current craft dispute on this subject.

Myron Cornish Company installed accoustical ceiling in the scheduling office complex and director room during the period.

Blome Glass Company is presently glazing doors and windows in the Hot Strip Mill Area as they become available.

Owens Corning Fiberglas Company continued with insulation of piping systems during the period. 213 feet of steam line was insulated during the period and 13,000 feet has been insulated to date. Insulation in the oil cellar was also maintained on lube oil system #4 and lube oil system #11 during the period.

Fire protection systems by Grinnel Company is as follows: system #1 between column 14 and 17 in the oil cellar, system #2 between column 17 and 22 and system #3 between column 22 and 27 are now piped-up complete.

Delta Pipeline Contractors installed 1,899 linear feet of service piping in the Hot Strip Mill and Roll Shop during the period for a total of 20,700 linear feet and 20 service drops to date.

Salem-Brosius continued during the period with installation of refractory in reheat furnace #2 up-take and waste gas stack. At furnace #1, refractory repair work was completed over three doors and castable walls were installed at the waste gas flue dampers. Piping was continued at furnace #2 on water supply lines, drains, steam piping, oil piping and soak zone air and gas pipe.

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Newco Electric continued throughout the period with wire pulling and termination work in the #1 furnace area. Insulation of steam and oil pipelines as well as combustion air ducts was continued throughout the period. The charge and discharge doors for furnace #2 were erected during the period. Furnace #1 is now 94% complete, furnace #2 is now 92% complete and furnace #3 is now 68% complete.

Babcock and Wilcox installed packing around the burners of #1 boiler during the period. Some modification work to the blow down drains on this boiler was also accomplished. This subcontractor worked Saturday, September 30, on installation of combustion air and hot gas ducts in the waste heat boiler area. Progress was continued during the period on insulation and lagging of the duct system for #1 F.D. and I.D. fans. Alignment of the #3 forced draft fan and drive was accomplished during the period and the housing for this fan was installed. Major progress is centered around installation of the #3 induced draft and forced draft fan assembly. At the #2 unit, duct work is near completion and insulation work initiated. This fan installation and related duct work contract is now 76% complete.

The Mo Piping (Contractor for the Waste Heat Boiler 2 $\frac{1}{2}$ " and over piping) is now 94% complete. During the period, this contractor installed floor drains for the 154 elevation floor and hangar installation for the main steam line. During the period, progress was also maintained on additional newly designed steam loops and boiler feed pump drains as well as service water piping. The #3 waste boiler safety valve exhaust piping is now essentially complete.

Norm Woolley (Contractor for the Waste Heat Boiler 2" and under piping) continued during the period with installation of air heater piping, steam and fuel oil piping for the three boilers. PVC piping to the chelating and sulfite equipment is now complete. This contractor is 55% complete.

Minneapolis-Honeywell (Instrumentation Contractor for the Waste Heat Boiler Area) continued throughout the period with installation of instruments and $\frac{1}{2}$ " stainless steel piping between the boiler drums and the control room instrument panels. Several bundles of copper tubing runs were also installed between the control room and the #1 boiler equipment. This contractor is now 51% complete.

2. 7146 - SLAB MILL

- 2.1 Excavation and Backfill: 8,494 cubic yards of backfill was completed during the period for a total to date of 190,876 cubic yards.

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- 2.2 Concrete: 173 cubic yards of concrete was placed during the period for a total to date of 43,754 cubic yards. Major concrete pours were: the slab for the mill office complex, the scarfer flume north wall between E-line and the scale pit and two grade beams.
- 2.3 Structural and Miscellaneous Steel: Progress continued during the period on structural work at the bag house units. The steel frames were lowered 1" in order to line up with fan platform bridge decking. Temporary closure was provided during the period for the motor room which is now closed in.
- 2.6 Mechanical: Crane #361 in the main mill aisle was placed in operation during the period. Eichleay Corporation continued their work force of 55 men on mechanical installation in the Slab Mill throughout the period. Progress during the period consisted of installation of the #3 and 4 mill approach table motor bases, the #10 mill runcut, #13 scarfer runcut table motor bases, installation of slab shear anchor bolts and bed plates and installation of the #11 scarfer approach table. The high reversing mill and piler were grouted during the period. 418 tons of Mesta equipment arrived at the job site during the period for a total to date of 6,172 tons or 80% complete. Major equipment received this period were components for the spindle carrier, components for the crop conveyor, slab shear components, table #15 and the slab scale equipment.
- 2.7 Piping: Hunter (Piping Contractor for the Slab Mill) maintained a complement of 61 men throughout the period on slab mill piping. Progress was continued in the oil cellar on installation of piping for lube oil systems #3, 6 and 7. The 200 gallon storage tank for lube oil #11 was set during the period. Progress was also maintained on plant air, steam, mill water and SSW piping in the motor basement. In the main mill aisle, Hunter continued with installation of the 8" plant air header, the 3" grease header, the 10" oxygen header and 4" nitrogen piping during the period. Most of this piping is along D-line between columns 18.5 and 1.1 at elevation 136. Some pipe openings were installed along E-line. Hunter has installed 8,850 linear feet of piping to date. Total piping for the Slab Mill is presently estimated at 36,000 feet.
- 2.8 Electrical: 400 lbs. of exposed conduit was installed during the period for a total to date of 4,600 lbs. or 35% complete. 2,600 lbs. of embedded conduit was installed during the period for a total to date of 583,400 lbs. or 91% complete. 900 feet of cable tray was installed for a total to date of 13,800 feet or 98% complete. 1,100 lbs. of lighting conduit and 1,200 feet of lighting wire was installed during the period.
3. 7143 - SOAKING PITS
- 3.1 Excavation and Backfill: 987 cubic yards of backfill was completed for a total to date of 112,991 cubic yards.

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- 3.2 Concrete: 338 cubic yards of concrete was placed for a total to date of 27,191 cubic yards. Major concrete pours were the Y-line trench slab near column 8, the Z-line loading dock wall, the ingot buggy track slab and the ingot buggy drive slab.
- 3.3 Structural and Miscellaneous Steel: Ohio Valley erected 25 tons of structural steel, including the support structure for the expediter pulpit, for a total to date of 4,156 tons. Bolt up was also completed at the east end of the mill. The louver framing steel is now 50% erected.
- 3.6 Mechanical: Loftus Engineering continued with good progress in the soaking pit area. During the period, the five cinder ball cleanout doors for batteries #4, 5 and 6 were installed. Also the emergency air damper doors were installed for these three batteries as well. Installation of the fuel oil heaters for the above batteries were installed. During the period, refractory work was continued at pits #20, 19 and 18 on walls and floors. Refractory work at batteries #1 through 4 consisted mainly of collecting flues and related archways. The steel framing for the archways and collecting flues at batteries #1, 2 and 3 is now 80% complete. Deck plate installation at the mezzanine floor is essentially complete and the floor framing at Elevation 124 is 90% complete. Stairways are now 65% complete at battery #6 and 15% complete at battery #5. The coke oven gas and natural gas piping between the manifolds and burners for batteries #5 and 6 are 90% complete. The 3" and larger cooling water piping for batteries #5 and 6 is 95% complete. Progress during the period was also maintained on combustion air piping, dilution air piping, steam piping and fuel oil piping. #6 battery piping is now 65% complete and leading other batteries progress wise.
- 3.7 Piping: Delta Pipeline Contractors continued during the period with pre-fabrication of pipe supports and 24" through 14" cooling water return piping. Pipe supports were installed along Y-line between column 7.5 and 16.5. Delta has not installed piping in place to date.
- 3.8 Electrical: 6,400 lbs. of exposed conduit was installed during the period for a total to date of 12,700 lbs. or 85% complete. 350 lbs. of embedded conduit was installed for a total to date of 65,000 lbs. or 85% complete.
4. 7128 - BASIC OXYGEN SHOP
- 4.1 Excavation and Backfill: 2,154 cubic yards of excavation was accomplished during the period for a total to date of 169,732 cubic yards. 10,148 cubic yards of backfill was completed for a total to date of 204,775 cu.yds.
- 4.2 Concrete: 599 cubic yards of concrete was placed for a total to date of 16,842 cubic yards. Major concrete pours consisted of the ladle re-line pit walls and piers, eleven piers along F, E and C line, office and lab building footings and the concrete foundation for furnace #1 foundation.

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- 4.3 Structural and Miscellaneous Steel: Bolt up was continued in advance of roofing and siding progress at the Mold Preparation Building during the period.
- 4.4 Roofing and Siding: 1,680 square feet of siding was installed at the Mold Yard Building during the period. 18,400 square feet of roofing was installed at the Mold Building for a total to date of 25,600 sq. ft.
5. 7145 - STRIPPER BUILDING
- 5.2 Concrete: 45 cubic yards of concrete was placed for a total to date of 1,479 cubic yards. The subgrade railroad slabs are now 30% complete in this building. The slabs were installed at the west portion of the building.
- 5.3 Structural and Miscellaneous Steel: 50 tons of structural steel was erected at the Stripper Building for a total to date of 823 tons. Structural steel bolt up was also continued on this structure during the period.
6. 7150, 7156 and 7159 - PICKLE AREA
- 6.2 Concrete: 118 cubic yards of concrete was placed in the #4 and 5 Pickle Line facility during the period for a total to date of 6,039 cubic yards. In the Green Coil Storage Building, 14 cubic yards of concrete was placed for a total to date of 5,586 cubic yards. At the Pickle Coil Storage Building, 195 cubic yards of concrete was placed for a total to date of 3,149 cubic yards.
- 6.3 Structural and Miscellaneous Steel: 120 tons of structural steel was erected during the period at the Pickle Coil Storage Building for a total to date of 227 tons.
- 6.4 Roofing and Siding: At the Green Coil Storage Building, 3,800 square feet of siding was installed for a total to date of 17,930 square feet. 13,100 square feet of roofing was installed for a total to date of 84,080 square feet.
- 6.6 Mechanical: Ohio Valley Riggers have completed the erection of cranes 401, 402 and 403 in the Green Coil Storage Building. Parts of crane 404 arrived at the job site during the period. Bolt up on these cranes continued during the period.
- 6.7 Piping: Norm Woolley Company was awarded the contract for piping in the Green Coil Storage Building. McGraw initiated installation of the roof drains at the Green Coil Storage Building during the period.

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- 6.8 Electrical: At the Pickle Line facility, high bay lighting feeder conduit is now 30% complete and cross truss lighting conduit in the maintenance aisle is 90% complete. At the Green Coil Storage Building, cable tray was installed in the conveyor aisle and is near completion except for the entry portion into the motor room. Electrical progress was continued during the period by Lake Erie Electric on crane 401 and 403. This work is scheduled to complete in two weeks.

7. UTILITIES

7109 - Pipeline: Delta Pipeline Company completed pipe installation for this project during the period. Final testing of the hydrogen, nitrogen and coke oven gas lines is now underway.

7110 - Power Distribution: R. H. Bouligny continued with progress on the electrical distribution systems throughout the period. At the Melt Area facility, the damaged 13.8 KV duct run between the substation and tower #14 has been repaired and the continuation of this duct system to the towers is in progress. The 13.8 KV switchgear foundation at the Melt Area substation was completed during the period. Excavation for the underground duct work to the basic oxygen furnace is now in progress. Stringing of the overhead power lines from the main substation to the Melt Area substation was initiated during the period. The 13.8 KV underground duct work to the Stripper Building and to the Mold Preparation Building is now complete. In the cold finishing substation, the filling of the transformers and the oil circuit breaker is scheduled to complete on Thursday, October 5. Wire pulling in this substation is now 90% complete and wire terminations will be initiated next period.

7111 - Sanitary Sewers: 691 cubic yards of backfill was completed for a total to date of 52,923 cubic yards. No progress was evident by Delta Contractors on this facility during the period.

7112 - Drainage and Site Development: 24,735 cubic yards of excavation was completed for a total to date of 622,016 cubic yards. 10,100 cubic yards of backfill was accomplished for a total to date of 863,048 cubic yards. 4 cubic yards of concrete was placed for a total to date of 884 cubic yards. Delta Pipeline Contractors continued with underground corrugated metal pipe installation in the Steelmaking Area during the period. 200 linear feet of 36" sewer pipe was installed and concrete pads were completed for seven manhole and inlet structures.

7113 - Trackwork: During the period, DHS Corporation laid 601 feet of track and three turnouts north of the Green Coil Storage Building. Ballast was installed for tracks south of the soaking pit. 82,165 feet of trackwork has been completed to date. Estimated trackwork at completion remains at 171,700 feet.

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7114 - Locker Rooms: David L. Smith Construction Company continued with good progress on both locker room facilities throughout the period. At the south area locker room, roofing was completed. Exterior and interior masonry work continued during the period and is scheduled to complete next period. Plumbing, vent and water piping was continued throughout the period and interior building lighting progress was also maintained. At the Steelmaking Area, the tubular framework for the locker room was completed. Backfill was continued during the period and coarse aggregate was placed in preparation for the base slab matmat.

7186 - Lagoon: 8 cubic yards of concrete was placed at the lagoon station structure for a total to date of 28 cubic yards.

Prepared by:

O.A. Finsand
O. A. Finsand

Approved by:

G. L. Roberts
G. L. Roberts
Construction Manager

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