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October 24, 1967

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Middletown Construction

JOS NO.

7100

SUBJECT

Kaiser Engineers' Weekly Field Activity Report

Transmitted herewith is the subject report for the week ending October 24, 1967.

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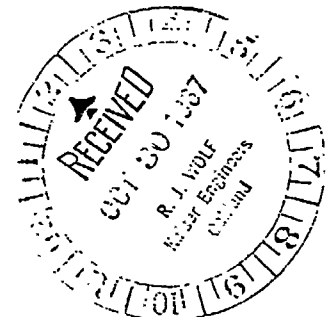
Armco

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

Kaiser

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

cc: Central File
Kaiser Reading File
Armco Reading File



KEN 003876

KAISER ENGINEERS
WEEKLY FIELD ACTIVITY REPORT
Week Ending October 24, 1967

WEATHER: Good weather prevailed during the period, temperatures slightly above normal with a cooling trend anticipated.

Client: Armco Steel Corporation

Location: Middletown, Ohio

Job Number: 6471

TEMPERATURE: Maximum - 73 degrees
Minimum - 33 degrees

JOB VISITORS

R. J. Wolf, W. E. Burger, C. B. Blumenthal, J. F. Chajnowski
N. R. Gardner

SUMMARY FORCE REPORT

	<u>Kaiser Engineers</u>		<u>Subcontractors</u>	<u>Foothill Electric</u>	<u>Total</u>
	<u>Exempt</u>	<u>Non-Exempt</u>			
Management	5	3		1	9
General Supervision	16	3	23	6	48
Field Engineering	47	25	11	16	99
Warehs. & Mtl. Control	4	8		1	13
Survey	2	19	4		25
Office Srv. & Repro.	1	6			7
Clerical			17	19	36
Craft *	—	<u>1,574</u>	<u>1,182</u>	<u>703</u>	<u>3,459</u>
TOTAL	75	1,638	1,237	746	3,696

* Average for week of men on payroll.

Average for week of crafts is as follows:

Kaiser Engineers	1,464
Subcontractors	1,133
Foothill Electric	<u>670</u>
Total Crafts Working	3,267

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COMMENTS

On Wednesday, October 18, a decision was made to send the stator halves (28 in all) for the 7 finishing mill motors back to the Westinghouse plant to correct the fault in the components. The responsibility for removal, shipment, repair, return, and re-assembly all rests with the Westinghouse Company. The necessary craft assistance by Kaiser Engineers and Foothill will be utilized as Westinghouse requires. A decision was also made that the crane operation would be handled by Armco operators with the Kaiser Engineers or Foothill operator standing by for work other than the motor problem. The trucks by the way have been engaged by Westinghouse. The Equipment Trouble Report procedure shall be used for this work with the time sheets being signed daily and material costs on a weekly basis.

Westinghouse had promised a 28-day period of time for the repair of all 7 motors. The sequence of repair shall be Numbers 2, 4, 1, 6, 3, 5, and 7. There is a possibility that a single half may ship out Saturday, October 28, and three more are scheduled to ship out on Sunday, October 29. According to Westinghouse schedule, the two bottom halves of motor No. 2 should be repaired by 12 o'clock Midnight on Tuesday and returned to the jobsite on Wednesday. To continue the sequence, the repair of the two top halves of motor No. 2 would be accomplished Wednesday and Thursday, November 1 and November 2, etc., etc.

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PROJECT PROGRESS

1. 7148 - HOT STRIP MILL

1.1 Excavation and Backfill: 2,411 cubic yards of backfill was accomplished during the period for a total to date of 892,976 cubic yards.

1.2 Concrete: 41 cubic yards of concrete was placed during the period for a total to date of 209,831 cubic yards. The period concrete consisted of the cap section for dewatering well #2 and grouting of tracks at Scale Pits 1 and 2 and grouting for the slab reject transfer car rails.

1.3 Structural and Miscellaneous Steel: A work force of 75 men continued through the period on installation of miscellaneous steel in the Hot Strip Mill. At column line 1, the rails for the slab reject car were installed, leveled and partially grouted during the period. Grouting will complete next period. The three slab transfer cars in the slab storage area are complete except for final electrical work on transfer car 1. Cars 2 and 3 are operable except for modifications on the cable reel. Delivery of these items is expected the week of November 6 which will allow these cars to be made fully operable and tested at that time. Installation of cover plates over the steam trench near column line 1 continued during the period. All 8" bumper rail throughout the Hot Strip Mill is now complete. Installation of grating continued in the damcoiler area and in the conveyor area throughout the period. This grating work is 90% complete. At the conveyor trenches between the Hot Strip Mill and the Green Coil Storage Building, the handrail installation is 95% complete and will finish next period. Progress was also continued during the period on pipe and conduit protection shields in the flume, with two tons remaining. At Scale Pit 3, installation of handrail and grating continued in the pit area and erection of the drag conveyor structure continued through the period. This structure is now 95% complete. In the Roll Shop Area, installation of miscellaneous steel framing and some floor plate work at the roll stands was in progress during the period. An estimated 140 tons of miscellaneous iron remains to be installed in the Hot Strip Mill. This quantity excludes extra work orders. A study was completed this period on authorized extra work orders and now shows 62 tons of work in this category. Additional work order items are anticipated, however.

1.5 Heating and Ventilating: At the Hot Strip Mill bag houses, electrical progress was continued at bag houses 2, 6, 7 and 13 during the period. Bag house 1 is complete electrically and requires steam piping to the heating coils. Bag house 2 is 90% complete electrically but requires steam piping to the heater coils. Bag house 3 is complete and ready for operation. Bag house 4 and 15 requires steam piping to the heater coils to complete these systems. Bag house 5 is piped up but requires minor electrical work before placing in operation. Bag houses 6, 11

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and 13 are not equipped with heater coils and will not require piping. Piping progress was not reported during the period on bag houses 7, 10, 12 and 14. At the finishing mill, the air conditioning system is complete except for a source of steam. In the downcoiler area, progress continued during the period on finishing the installation of the air conditioning units for the downcoiler director room and the coil conveyor director room. Duct insulation was completed at the coil conveyor unit. Installation of grilles is remaining. At the boiler house control room, the heating and ventilating fan is scheduled to arrive at the job site on October 31. Some instrumentation and water and steam connections to the unit are also required to finish this unit. At the scheduling office in the slab storage area, progress continued during the week on piping and instrumentation for the heating and ventilating unit and at the close of the period the unit was made operational but lacks three dampers and ceiling grilles. This unit is scheduled to complete next period. The x-ray house heating and ventilating unit was completed during the period. At the clarification building, progress continued on the installation of instrumentation and electrical work for the heating and ventilating unit during the period. At the clarifier pump house, grilles were installed for the heating and ventilating system and instrumentation was started. 220 power is required for the dispatcher's office, recording room and the grease house heating and ventilating units. This permanent source of power will be furnished by Foothill Electric.

- 1.6 Mechanical: Installation of mechanical equipment in the Hot Strip Mill continued in most areas during the period. In the furnace area, mechanical check out was initiated on the furnace charging table 12. This completes check out work on all furnace approach and charging tables. Mechanical work on the pushers is now complete except for test operations of the rams and the associated limit switch adjustments. The furnace entry skid installations will be accomplished for furnace #1 next period as soon as the temporary brick loading platform is removed. In the rougher area, remedial work continued on the rougher 4 edgers for United Engineering. The remedial work on roughers 2 and 3 are complete. In the finisher area, progress was continued throughout the period on rework of the finishing mill main drive motors under the direction of Westinghouse. Latest decisions at the close of this period required that the stator components for all main drive motors in the finishing area be returned to the Pittsburgh factory for examination and check-out and then returned to the job site. The re-babbitted bearing for finishing motor 5 was returned to the job site during the period and is presently be installed. Work continued during the period on machining of the quick roll change rams for the finishers at the Aruco Machine Shop. In the downcoiler and runout area, rework continued throughout the period on the runout table motor bases and motor installation was also continued. The signode coil bander installation was assembled and

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leveled in place. At the coil conveyor system, drive and chain installation continued on all conveyors during the period. A revision entailing a refabrication of some items is being experienced at coil conveyor 6 because of chain interference at the radial turn for this unit. At Scale Pit 3, the wet scale removal system is in progress. Installation of roll components continued throughout the period. This work is being installed under the supervision of a vendor's representative. In the Roll Shop, installation of roll grinder 3 continued throughout the period. Grouting of this unit is scheduled for next week.

Coupled tests were performed on the following equipment: charging tables 8, 9, 10, 11 and 12, inching drives 1 through 5, pusher 1 to the gear box only. Uncoupled tests were accomplished for the crop shear system, the clarifier cooling tower pumps and the mill low pressure water pumps. Check out continued by Westinghouse on the P50 and P550 computers in the R2 and R6 areas throughout the period.

- 1.7 Piping: During the period, 10,389 feet of piping was installed for a total to date of 304,558 linear feet. 2,615 feet of this installed quantity was instrumentation tubing. To date, 24,863 linear feet of instrumentation tubing has been installed and 2,737 feet of tubing remains to be installed. 34,116 linear feet of piping remains to be installed by Kaiser forces in the Hot Strip Mill. Major piping systems worked on during the period were: grease, high pressure descaling, mill water, fuel oil piping, plant air, natural gas, steam, heating and ventilating, boiler feed water, downcoiler air, and instrumentation. Pickling was completed during the period on lube oil 10. Hydro testing of hydraulic system 15 was also completed during the period and hydro testing of hydraulic system 16 is now in progress. Expansion joints for the suction side of four of the five sump pumps in sump pit 4 arrived during the period and are presently being installed. The fifth expansion joint is scheduled to arrive next week. At the high pressure descaling pumps, the Union people are supervising clean-up of the lubrication system including the gear boxes for these units. This clean-up work is expected to complete next period. Progress continued during the period on installation of the #1 air compressor at the pump house. Coolers for this unit have been set in place and related piping is also in progress.
- 1.8 Electrical: Foothill Electric Corporation installed 26,000 lbs. of exposed conduit during the period for a total to date of 1,382,000 lbs. equal to 100% complete of the current estimate at completion. 2,000 lbs. of embedded conduit was installed for a total to date of 1,540,000 lbs. 51,000 feet of low voltage cable was installed for a total to date of 1,477,000 feet or 85% complete. 800 low voltage cable terminations were completed for a total to date of 24,000. 57,000 feet of control cable was installed for a total to date of 1,579,000 feet or 85% complete.

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700 control cable terminations were completed during the period for a total to date of 45,600 or 78% complete. 10,000 feet of computer cable was installed for a total to date of 715,000 feet or 76% complete. 1,900 computer cable terminations were accomplished for a total to date of 25,200 or 84% complete. 3,200 lbs. of conduit and 8,000 feet of wiring was installed during the period. 700 lbs. of structural grounding was installed for a total to date of 131,700 lbs. or 98% complete.

- 1.9 Miscellaneous Subcontracts: Bilbrey Masonry have completed all major work items in their contract for the Hot Strip Mill facility. During the period, they accomplished punch list work items as required.

Moeschl-Edwards has completed installation of 67 roll-up doors. Delivery of the last six doors is scheduled for October 27 and installation of these units will proceed immediately. All doors are scheduled to complete by November 10.

Myron Cornish installed ceilings in the scheduling office complex and the finishing office complex during the period. His progress remains intermittent pending requirements.

Owens Corning Fiberglas continued throughout the period with insulation of 165 lb. steam piping and insulation of lube oil systems in the oil cellar. During the period, 600 feet of steam piping was insulated for a total to date of 13,600 linear feet. 665 feet of condensate piping was insulated in the oil cellar for a total to date of 2,382 feet. 1,150 feet of Morgoil system #1 was insulated during the period.

Delta Pipeline Contractors installed 2,215 feet of service piping during the period including 300 feet of drop piping for a total to date of 23,250 feet of header piping and 4,188 feet of drop piping to date and an overall total of 27,438 linear feet.

Salem-Brosius completed the repairs to the damaged lintels on furnace 1 at the close of this period. This completion includes the rebricking as well. Progress was continued during the period on the setting of the #3 combustion air blower and #3 damper installation. Refractory work was continued on the north wall of furnace #3 and the uptake area of furnace #2 during the period. Furnace piping was confined mainly to unit 2 and 3 combustion air and gas piping to the burners.

Nesco Electric continued with wire pulling and termination work to the damper control panels on furnace 1 and 2. Painting of furnace #1 is now 35% complete. Insulation continued throughout the period on steam, oil and air lines at furnace #1. This work is now 65% complete. Furnace #1 is 96% complete, furnace #2 is 84% complete and furnace #3 is 70% complete.

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Babcock and Wilcox continued with installation of I.D. and F.D. fans and related duct work throughout the period. The #3 I.D. fan rotor was installed this period. Insulation and lagging for the #1 combustion air and gas duct system is in progress. The #1 I.D. and F.D. fan system is in the final stages of construction and test operations for these units are scheduled to begin early in November. This fan and duct system contract is 86% complete.

The Mo Piping (Contractor for the Waste Heat Boiler 2 $\frac{1}{2}$ " and over piping) completed the hydro testing of the 165 lb. steam pipelines in the Waste Heat Boiler Area. Hydro testing is in progress for the 425 lb. steam between the steam drum and the air heater. Hydro testing is also in progress on the compressed air and natural gas piping in this area. Pipe installation during the period consisted mainly of additions or changes resulting from Dravo Design modifications. This contract is now 96% complete.

Norm Woolley (Contractor for the Waste Heat Boiler 2" and under piping) is 80% complete. Essentially all remaining work required by this contractor involves extra work due to recent design changes. Work remaining consists of condensate piping, drains, some treated water tie-ins and repairs to some of the steam piping.

Minneapolis-Honeywell (Instrumentation Contractor for the Waste Heat Boiler Area) continued throughout the period with instrumentation calibration and installation in the Waste Heat Boiler Area. Tubing terminations continued throughout the period. This contractor is now 65% complete.

2. 7146 - SLAB MILL

- 2.1 Excavation and Backfill:** 5,877 cubic yards of backfill was completed during the period for a total to date of 206,150 cubic yards.
- 2.2 Concrete:** 414 cubic yards of concrete was placed during the period for a total to date of 44,867 cubic yards. During the period, the concrete pours consisted mainly of: scarfer flume fill concrete including walkway, crop conveyor drive foundation slab at the east end, pipe tunnel base at the north side of the crop conveyor, scarfer flume south wall to E-line and mill aisle slab 14.5a to 15.5a.
- 2.6 Mechanicals:** Richley Corporation continued during the period with mechanical installation in the Slab Mill. Practically all major mechanical items in the Slab Mill main aisle were worked on during the period. Progress continued on the two-high reversing mill facility,

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approach table motors for tables 4, 10, 11 and 13, the crop pusher, the slab scale and the crop conveyor facility. Installation was also evident on other related equipment in this area. 396 tons of Mesta equipment was received at the job site during the period for a total to date of 7,132 tons or 93% complete. Some items received during the period were the manipulator components, the spindle carriers and structural items for the skip hoist. The ingot receiving table 1 and the piler table 17 was grouted during the period.

- 2.7 Piping: Hunter (Piping Contractor for the Slab Mill) continued with an average work force of 56 men during the period. In the Slab Mill oil cellar, progress continued on the four lubricating oil systems along the west wall. Installation of water, steam and air piping was also continued in this oil cellar during the period. Progress was maintained in the main mill aisle along column D on the plant air, grease, oxygen and natural gas headers including drops for plant air and natural gas. This header system is now 93% complete. Along column E, the natural gas and oxygen headers between column 1 and 18 is near completion. Progress is also continuing on the underground piping in the Scale Pit Area. 280 feet of grease supply header piping and 55 grease joints for tables 2, 3 and 4 were installed during the period. Hunter has installed 11,495 linear feet of pipe to date. Total pipe to be installed remains at 36,000 feet.
- 2.8 Electrical: 4,000 lbs. of exposed conduit was installed for a total to date of 10,000 lbs. 5,000 lbs. of embedded conduit was installed for a total to date of 592,000 lbs. 800 feet of cable tray was installed for a total to date of 16,500 feet. 1,000 lbs. of conduit and 7,000 feet of conductor was installed during the period. 1,300 lbs. of structural grounding was installed for a total to date of 13,800 lbs. or 29% complete. An average work force of 90 electricians was maintained in this area during the period.
3. 7143 - SOAKING PITS
- 3.2 Concrete: 220 cubic yards of concrete was placed for a total to date of 27,931 cubic yards. During the period, the concrete work consisted mainly of the Y-line trench slab column 2.5 to 3.5, the east ingot buggy drive base foundation and track slab, and the Z-line loading dock and ramp walls.
- 3.3 Structural and Miscellaneous Steel: 14 tons of structural steel was erected by Ohio Valley during the period for a total to date of 4,195 tons. The ingot buggy track rails have not arrived at the job site but are expected soon. Installation of track bed plates was initiated during the period. Progress continued on the bolt-up of structural members for the expediter pulpit.

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- 3.6 Mechanical: Loftus Engineering continued during the period with their full work force in all phases of construction at the Soaking Pit facility. Brickwork was continued at battery 4 on the archways and collecting flue floors and walls. The recuperator pads were poured during the period at batteries 1 and 2. These batteries are now ready for archway and collecting flue refractory installation. Structural installation at batteries 3 through 6 is well advanced and involves mainly bolt-up and some bracing. Mezzanine deck plate installation is 98% complete. Conduit installation continued in the 4, 5, and 6 battery areas between motor control centers and remote equipment. Lighting conduit in this area was also continued during the period. The insulated floor for the mezzanine motor room was installed between column 8.5 and 10.5 during the period. The coke oven gas and natural gas manifolds to the #5 and 6 battery burners is essentially complete and progress on manifold piping is continuing at batteries 3 and 4. Progress was also continued in the 5 and 6 battery areas on cooling water piping, damper installation, booth drains, combustion air and dilution air. Air piping to the cinder ball doors was initiated on battery 6.
- 3.7 Piping: No progress was evident in this area during the period because Delta Pipeline Contractors were requested to remove their men for priority in other areas. Progress by this contractor in the soaking pit building is scheduled to resume on November 9.
- 3.8 Electrical: Foothill Electric installed 10,000 lbs. of exposed conduit for a total to date of 43,000 lbs. 100 lbs. of embedded conduit was installed for a total to date of 65,500 lbs. or 85% complete.
4. 7128 - BASIC OXYGEN SHOP
- 4.1 Excavation and Backfill: 8,318 cubic yards of excavation was completed during the period for a total to date of 193,099 cubic yards. 8,310 cubic yards of backfill was accomplished for a total to date of 229,004 cubic yards. Backfill work during the period consisted mainly of subgrade preparation at the E-line dock and foundation backfill west of column line 17. Excavation during the period was accomplished for the track hopper pit and the exhaust stack and fan foundation.
- 4.2 Concrete: 29 cubic yards of concrete was placed for a total to date of 17,500 cubic yards. The period concrete involved remaining structural steel piers in the C and E-line area. All structural steel piers are now complete and awaiting structural erection.
- 4.3 Structural and Miscellaneous Steel: 26 tons of structural steel was erected for a total to date of 2,090 tons for this project. The structural steel for this period consisted of one column for the main Basic Oxygen Building indicating initial structural steel erection for this major facility. 2,927 tons of structural steel has been delivered to the job site for the main Basic Oxygen Building to date.

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- 4.4 Roofing and Siding: 18,240 square feet of siding was installed in the Mold Preparation Building for a total to date of 37,420 square feet. 3,000 square feet of roofing was installed at this building for a total to date of 66,040 square feet.
5. 7145 - STRIPPER BUILDING
- 5.3 Structural and Miscellaneous Steel: 6 tons of structural steel was erected for a total to date of 829 tons. Bolt-up continued throughout the period on roof purlins and roof bracing.
- 5.6 Mechanical: Installation of the overhead crane by Ohio Valley Riggers was initiated during the period. At the close of the period, the trucks and main girders were erected in place.
6. 7150, 7156 and 7159 - PICKLE AREA
- 6.1 Excavation and Backfill: Some backfill work was evident in the Green Coil Storage Building during the period. Backfill in this area is now 95% complete. Pile driving continued during the period at the #2 catenary pit on #4 pickle line. Excavation is being accomplished as required for foundation work on pickle lines 4 and 5.
- 6.2 Concrete: 88 cubic yards of concrete was placed in the Pickle Line facility for a total to date of 6,327 cubic yards. 153 cubic yards of concrete was placed along J-line of the Pickle Coil Storage Building for a total to date of 4,312 cubic yards. Grouting of all columns on the north lean-to piers was completed this period. The J-line walls and piers were also completed this period.
- 6.3 Structural and Miscellaneous Steel: At the Green Coil Storage Building, 15 tons of structural steel was erected for a total to date of 2,849 tons. At the Pickle Coil Storage Building, 88 tons of structural steel was erected for a total to date of 503 tons. Five roof trusses have been erected to date and all columns along H-line are now erected. Good progress is continuing in this area on structural steel erection. Grouting of structural columns continued during the period at the Green Coil Storage Building. These columns are 90% grouted.
- 6.4 Roofing and Siding: 6,720 square feet of siding was installed at the Green Coil Storage Building for a total to date of 26,186 square feet. 9,400 square feet of roofing was installed for a total to date of 103,800 square feet. At the Pickle Line Building, 860 square feet of siding was installed for a total to date of 106,445 square feet. 2,660 square feet of roofing was installed for a total to date of 97,652 square feet. Progress was also experienced on the installation of roof ventilators at the Green Coil Storage Building during the period.

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- 6.6 Mechanical: Some erection was evident on the fourth overhead crane at the Green Coil Storage Building during the period; however, delivery of the cab for the fourth crane is delaying final erection of this unit. This cab is scheduled for delivery next period.
- 6.7 Piping: McGraw Construction Company continued their installation of roof conductors for the Green Coil Storage Building. These roof conductors are 75% complete.
- 6.8 Electrical: In the Green Coil Storage Building, installation of cable tray continued during the period. This tray installation is now 50% complete. In the Pickle Line Building, electrical progress continued on crane 40% and is 60% complete. Delivery of the 13.8 KV switchgear and the rectifier for the Pickle Line facility is scheduled on October 31, 1967. Progress was also continued at the Pickle Coil Storage Building on high bay lighting conduit, lighting wiring and collector rail support brackets. This electrical work is advancing with the structural steel. The motor control center enclosure in the Green Coil Storage Building was erected and roofed-in. The motor control units are also set in place.

7. UTILITIES

7109 - Piping: Delta Pipeline Contractors reported no progress on this system during the period. Final check out of the hydrogen, nitrogen and coke oven gas lines is still pending.

7110 - Power Distribution: During the period, Davis and Siehl completed all substation enclosure fencing and personnel gates included in their contract. At the Melt Area switchstation, embedded conduit installation continued during the period. This work is 90% complete. Setting of the 13.8 KV switchgear at this station is scheduled for next period. Progress continued at the Basic Oxygen Shop on underground conduit work connecting the switchgear station to the #3 manhole inside the main building. At the cold finish substation, wire terminations are 95% complete and high pot testing was initiated during the period. The underground electrical duct run from the main substation to the terminal tower of the Melt Area power line was completed this period. Trench backfill will be accomplished next period.

7112 - Excavation and Site Development: 15,206 cubic yards of excavation was completed for a total to date of 663,735 cubic yards. 15,447 cubic yards of backfill was accomplished for a total to date of 901,232 cubic yards. 13 cubic yards of concrete was placed for a total concrete quantity of 913 cubic yards. Delta Pipeline Contractors installed 120 feet of 12" corrugated metal pipe in the Steelmaking Area during the period. John B. Jurgensen Company of Cincinnati has met with our subcontract engineers to develop a pre-construction schedule for the road paving requirements in the Hot Strip Mill Area, which is scheduled to proceed in the near future.

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7113 - Trackwork: During the period, DHS Corporation laid 1,464 feet of track on the north side of the Pickle Line Building including three turnouts in this area. Ballast was installed at the Stripper Building and on track north of the Pickle Line Building. 86,399 feet of track has been installed to date and the estimated track to be installed for the entire project is 171,700 feet.

7114 - Locker Rooms: At the south area locker room, interior masonry work was essentially completed during the period. Progress continued on building lighting and interior plumbing installations. Glazing was in progress during the period and is scheduled to complete next week. Good progress was maintained on overhead heating and ventilating duct work as well. In the Steelmaking Area, masonry wall installation continued throughout the period. The north and south exterior walls were completed and progress was well along on block work at the mechanical equipment room by the close of this period. The roofing and sculptured paneling are 75% complete.

7186 - Waste Disposal for the Pickle Facility: 1,184 cubic yards of excavation was completed for a total to date of 82,396 cubic yards. 86 cubic yards of concrete was placed for a total to date of 146 cubic yards. Progress continued during the period on foundation construction for the main disposal building.

Prepared by: O. A. Finsand
O. A. Finsand

Approved by: G. L. Roberts
G. L. Roberts
Construction Manager

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