

ROCKDALE WORKS
JANUARY 1962 WORKLOAD RESULTS - HEAD POTMAN

Category	Total Observation	Percent of Total	Type of Work
1. Walk-Aisle	124	9.23	C
2. Walk-Catwalk	17	1.26	C
3. Inspecting	157	11.43	C
4. Kill Lights	17	1.26	A
5. Work Pot End	48	3.57	A
6. Dump & Spread Ore	11	.82	B
7. Chaining	14	1.04	B
8. Hand Jack Carbon	22	1.64	B
9. Meter Carbon	-	-	C
10. Mark Pot Legs	11	.82	C
11. Handle Pot Covers	7	.52	C
12. Miscellaneous	85	6.32	B
13. Feeders On & Off	10	.74	C
14. Push Bath Julie	9	.67	B
15. Shovel Bath Additions	23	1.71	B
16. Unavoidable Delay	12	.89	D
17. Idle	452	33.65	E
18. Walk to Measure B.M.M.	4	.30	C
19. Measure B.M.M.	31	2.31	B
20. Mark B.M.M.	4	.30	C
21. Push Cart to/From Sampling	25	1.88	C
22. Sample Ore Dumps	80	6.03	B

PLAINTIFF'S
EXHIBIT

AL-430

ROCKDALE WORKS
JANUARY 1962 WORKLOAD RESULTS - HEAD POTMAN (Continued)

<u>Category</u>	<u>Total Observation</u>	<u>Percent of Total</u>	<u>Type of Work</u>
23. Unavoidable Delay - Sampling	10	.74	D
24. Weigh, Record Samples	118	8.78	C
25. Mark Samples on Riser	20	1.49	C
26. Reset Timers	23	1.71	C
27. Check Muck Pots	4	.30	B
28. Lubricate Feeders	5	.37	C
29. Temperature	1	.07	C

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HEAD POTMAN

1. Walk-Aisle

Walking empty-handed in aisle.

2. Walk-Catwalk

Walking on catwalk when first observed. If walking is an integral part of performing another function, he is given credit for the duty in which he is engaged.

3. Inspecting

Inspecting the pot through the cover hole, skirt hole or with cover off. Includes observing meter or timer or reading of leg markings.

4. Kill Lights

Potman breaking crust with poker or crowbar or stirring pot with poker in an effort to kill a light.

5. Work Pot End

Potman breaks crust with poker or crowbar or stirring with pot poker to perform such operations as working 24-hour pots, chunk bath, new pots, 40-hour pots, alloy pots, etc.

6. Dump and Spread Ore

Dumping ore by pulling the ore dump cables and spreading by means of the ore rake. Includes the spreading of stub bath additions.

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HEAD POTMAN (Continued)

7. Chaining

Chaining the anode bus up or down in an effort to maintain a desired voltage.

8. Hand Jack Carbon

Raising or lowering carbon with a hand jack to maintain proper anode-cathode distance. Adjusting carbon to prevent burnoff. This element also includes the raising of all scheduled set patterns.

9. Meter Carbon

Metering of anode rods for millivolts, using either hand or neck meter in an effort to maintain proper distribution of the carbon.

10. Mark Pot Legs

Recording data on the pot leg or riser or erasing leg marks.

11. Handle Pot Covers

Remove and replace end covers of pot.

12. Miscellaneous

Elements not included in the Head Potman or Potman elements.

13. Feeders On and Off

Flipping switches to turn feeder on and off.

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HEAD POTMAN (Continued)

14. Push Bath Julie

Push bath julie empty or loaded to and from bath or cryolite additions.

15. Shovel Bath Additions

Shoveling of bath additions to the pot.

16. Unavoidable Delay

Interference caused by waiting on other members of the crew to perform work.

17. Idle

Breaks, lunch, etc.

18. Walk to Measure B.M.M.

Walk to measure bath, metal and muck.

19. Measure B.M.M.

Walk up, on, or down catwalk, remove or replace covers, get and aside crowbars, knock hole in crust, insert and remove measuring sticks and walk about the pots.

20. Mark B.M.M.

Walk to and about the pots, erase and mark date, bath and metal measurements.

HEAD POTMAN (Continued)

21. Push Cart To/From Sampling

Walk to get cart, push cart to and from sampling section.

22. Sample Ore Dumps

Walk up, on, and down catwalk during sampling, remove and replace covers, handling of sample chaf, catching and dumping of samples.

23. Unavoidable Delay Sampling

Waiting for timers to actuate the pluggers to catch sample.

24. Weigh, Record Samples

The office work of weighing and recording of sample data.

25. Mark Setting on Riser

Walk from office to sample section and mark on riser the date, grams, and timer setting.

26. Reset Timers

Walk about the timers and reset individual timers.

27. Check Muck Pots

Remove covers, knock hole, check muck with crowbar on scheduled to-tap pots.

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HEAD POTMAN (Continued)

28. Lubricate Feeders

Walk to oil drum, fill oil containers, walk to oil lines, fill reservoir -- and writing of data -- to replenish oil in feeder system.

29. Temperatures

Get and aside pyrometer. Walk to and from pot, remove cover and take pot temperature.

ROCKDALE WORKS
JANUARY 1962 WORKLOAD RESULTS - POTMAN

<u>Category</u>	<u>Total Observation</u>	<u>Percent of Total</u>	<u>Type of Work</u>
1. Walk-Aisle	364	13.54	C
2. Walk-Catwalk	59	2.19	C
3. Inspecting	213	7.92	C
4. Kill Lights	83	3.09	A
5. Work Pot End	183	6.81	A
6. Dump and Spread Ore	97	3.61	B
7. Chaining	57	2.12	B
8. Hand Jack Carbon	47	1.75	B
9. Meter Carbon	-	-	C
10. Mark Pot Legs	21	.78	C
11. Handle Pot Covers	22	.82	C
12. Miscellaneous	114	4.24	B
13. Feeders On/Off	23	.86	C
14. Push Bath Julie	3	.11	B
15. Shovel Bath Additions	36	1.34	B
16. Unavoidable Delay	5	.19	D
17. Idle	939	34.93	E
18. Remove Covers-Ore Patterns	6	.22	C
19. Dress Pot Patterns, Decks	30	1.12	B
20. Sweep Narrow Aisle	107	3.98	C
21. Shovel Sweepings	3	.11	B
22. Jack Clamping	83	3.09	A

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ROCKDALE WORKS
JANUARY 1962 WORKLOAD RESULTS - POTMAN (Continued)

<u>Category</u>	<u>Total Observation</u>	<u>Percent of Total</u>	<u>Type of Work</u>
23. Jack Pots	38	1.41	C
24. Other Jacking Work	111	4.13	B
25. Idle-Jack Bus	44	1.64	D

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POTMAN

1. Walk-Aisle

Walking empty-handed in aisle.

2. Walk-Catwalk

Walking on catwalk when first observed. If walking is an integral part of performing another function, he is given credit for the duty in which he is engaged.

3. Inspecting

Inspecting the pot through the cover hole, skirt hole, or with cover off. Includes observing water or timer, or reading of lag markings.

4. Kill Lights

Potman breaking crust with poker or crowbar or stirring pot with poker in an effort to kill a light.

5. Work Pot End

Potman breaks crust with poker or crowbar or stirring with pot poker to perform such operations as working 24-hour pots, chunk bath, new pots, 40-hour pots, alloy pots, etc.

6. Dump and Spread Ore

Dumping ore by pulling the ore dump cables and spreading by means of the ore rake. Includes the spreading of stub bath additions.

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POTMAN (Continued)

7. Chaining

Chaining the anode bus up or down in an effort to maintain a desired voltage.

8. Hand Jack Carbon

Raising or lowering carbon with a hand jack to maintain proper anode-cathode distance. Adjusting carbon to prevent burnoff. This element also includes the raising of all scheduled set patterns.

9. Meter Carbon

Metering of anode rods for millivolts, using either hand or neck meter in an effort to maintain proper distribution of the carbon.

10. Mark Pot Legs

Recording data on the pot leg or riser or erasing leg marks.

11. Handle Pot Covers

Remove and replace end covers of pot.

12. Miscellaneous

Elements not included in the Head Potman or Potman elements.

13. Feeders On and Off

Flipping switches to turn feeder on and off.

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POTMAN (Continued)

14. Push Bath Julie

Push bath julie empty or loaded to and from bath or cryolite additions.

15. Shovel Bath Additions

Shoveling of bath additions to the pot.

16. Unavoidable Delay

Interference caused by waiting on other members of the crew to perform work.

17. Idle

Breaks, lunch, etc.

18. Remove Covers-Ore Patterns

Walk to set section. Walk up, on and down catwalk, remove one or two covers to set pattern.

19. Dress Pot Patterns, Decks

Walk to set section after set patterns have been ored. Sweep decks, ore patterns, remove ore from bonnets, pick up and dispose of additional chunks uncovered in sweeping and replace covers.

20. Sweep Narrow Aisle

Sweeping on narrow aisle for two groups of 12 pots including the work necessary to perform the operation.

POTMAN (Continued)

21. Shovel Sweepings

Shovel sweepings into pot(s) including any walking involved in pursuance of this element.

22. Jack Clamping

Any act concerned with placing or removing clamps such as walking to get, transport, position, remove, and tighten clamps, etc.

23. Jack Pots

Includes only the act of placing and removing the air wrench and the process time of jacking the bus.

24. Other Jacking Work

Includes pushing the jack Julie to the job, handling tools and equipment necessary to perform the operation of pulling jacks, blowing of ore dust off pots, oiling of clamps, etc.

25. Idle-Jack Bus

Unavoidable delays of jacking bus process -- and breaks.

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ROCKDALE WORKS
JANUARY 1962 WORKLOAD RESULTS - HEAD TAPPER-CARBON CHANGER

<u>Category</u>	<u>Total Observation</u>	<u>Percent of Total</u>	<u>Type of Work</u>
1. Change Carbon-Catwalk	48	4.17	A
2. Break Hole or Crust	29	2.52	A
3. Wait-Catwalk	13	1.13	C
4. Change Carbon-Aisle	41	3.48	B
5. Unavoidable Delay-Aisle	87	7.35	D
6. Assemble, Disassemble Siphon	35	3.04	B
7. Prepare pot to Tap	29	2.52	B
8. Handle Tapping Equipment	98	8.51	C
9. Tapping	48	4.17	B
10. Observe Tapping	112	9.72	C
11. Chaining	4	.35	B
12. Unavoidable Delay-Chain Aisle	17	1.48	D
13. Set Up Pot for Operation	17	1.48	B
14. Clean Crucible	10	.87	A
15. Unavoidable Delay-Tapping	23	2.00	D
16. Set Out Anodes	3	.26	C
17. Set Off Anodes	5	.43	C
18. Unavoidable Delay-Set Out and Set Off	23	2.00	D
19. Knock Off Butts	29	2.52	B
20. Unavoidable Delay-Knock Off Butts	38	3.30	D
21. Fill Ore Buckets	23	2.00	C

ROCKDALE WORKS
JANUARY 1962 WORKLOAD RESULTS - THIRD TAPPER-CARBON CHANGER

<u>Category</u>	<u>Total Observation</u>	<u>Percent of Total</u>	<u>Type of Work</u>
1. Change Carbon - Catwalk	46	7.99	A
2. Break Hole or Crust	32	5.56	A
3. Wait - Catwalk	12	2.08	C
4. Change Carbon - Aisle	27	4.68	B
5. Unavoidable Delay - Aisle	82	14.24	D
6. Walk - Room to Room	6	1.04	C
7. Clean, Stand Butts	50	8.68	B
8. Hook Butts	27	4.69	C
9. Shovel Stub Bath	58	10.07	B
10. Sweep Wide Aisle	34	5.90	C
11. Unavoidable Delay - Wait for Crane	14	2.43	D
12. Idle - C, S, HK, SH, SW	22	3.82	D
13. Miscellaneous	9	1.56	B
14. Idle - Miscellaneous	19	3.30	D
15. Idle - Part of Crew	55	9.55	E
16. Idle - Entire Crew	41	7.12	E
17. Idle - Work Complete	42	7.28	E

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ROCKDALE WORKS
JANUARY 1962 WORKLOAD RESULTS - HEAD TAPPER-CARBON CHANGER (Cont'd)

<u>Category</u>	<u>Total Observation</u>	<u>Percent of Total</u>	<u>Type of Work</u>
22. Ore Set Patterns	35	3.04	B
23. Unavoidable Delay-Oreing	43	3.73	D
24. Miscellaneous	31	2.68	B
25. Idle-Part of Crew	91	7.89	E
26. Idle-Entire Crew	158	13.71	E
27. Idle-Work Complete	62	5.37	E

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STUDY ELEMENTS

HEAD TAPPER-CARBON CHANGER and TAPPER-CARBON CHANGER

1. Change Carbon-Catwalk

Walk up, on and down catwalk, remove and replace covers. Hook rodding. Hook and unhook anode rods. Get and aside crowbars, sledges, rakes, etc.

2. Break Hole or Crust

Using sledge hammer and crowbar to break holes and remove chunks. Pulling chunks off catwalk.

3. Wait - Catwalk

Wait for crane to haul out butts or haul in anodes -- or short break on catwalk.

4. Change Carbon-Aisle

Hook and unhook carbon in aisles. Lean butts against riser. Hook-rod mark dates on anodes or riser legs. Turn timers on and off.

5. Unavoidable Delay-Aisle

Unavoidable delays in the aisles during setting.

6. Assemble, Disassemble Siphon

Includes assemble and disassemble of siphon head to siphon, including placing of gaskets and siphon cleanout and

HEAD TAPPER-CARBON CHANGER and TAPPER-CARBON CHANGER (Continued)

sweeping of the area. This element will also be used for stopped-up siphons.

7. Prepare Pot to Tap

Remove covers, hang poker, break hole in crust, measure metal depth, roll pots, pull corner carbon (if necessary). Handle siphon - siphon horse about tap section. Includes walking to this job.

8. Handle Tapping Equipment

Handling crucible, aspirator, siphon, and siphon horse about the tap pots. Placing of foil plugs in siphon.

9. Tapping

Internal elements of work performed while metal is being siphoned. Includes skimming of dross, measuring metal depths, marking crucibles, etc.

10. Observe Tapping

Observing operation while metal is being tapped.

11. Chaining

Turning timer off and on. Observing meters and chaining pot down during tapping. Includes crossing catwalk to and from chain aisle.

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HEAD TAPPER-CARBON CHANGER and TAPPER-CARBON CHANGER (Continued)

12. Unavoidable Delay-Chain Aisle

Unavoidable delays in the chain aisle while metal is being siphoned from the pot.

13. Set Up Pot for Operatinn

Includes unhangng of poker, replacing ~~coke~~, shoveling skim dross.

14. Clean Crucible

Self-explanatory. Walk to job; get and aside tools.

15. Unavoidable Delay-Tapping

Short pauses while other crewmen are performing work.

16. Set Out Anodes

Includes hooking and unhooking and walking about the set, storage, or trailer areas while setting out anodes to be set.

17. Set Off Anodes

Set off, hooking and unhooking, walking about storage and trailer areas while setting anodes off to storage area.

18. Unavoidable Delay-Set Out and Set Off

Unavoidable delays such as waiting on crane~~men~~ or other crewman during setting out or setting off of ~~anodes~~.

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HEAD TAPPER-CARBON CHANGER AND TAPPER CARBON-CHANGER (Continued)

19. Knock Off Butts

Walking to the area, sledging of butts, placing of rods in the trailer, unhooking rods on trailer, breaking of burn-offs, handling of butt pan, sweeping area.

20. Unavoidable Delay-Knock Off Butts

Waiting for crane man or other crewman during knocking off of butts.

21. Fill Ore Buckets

Walking to job, assisting crane man in hooking of ore bucket, placing ore bucket to spout or storage, hanging and unhanging ore tower spout, moving spout during filling of ore bucket, guiding ore bucket to hook on crane, and throwing ore bucket rope to crane man. Also coiling rope on bucket.

22. Ore Set Patterns

Walk to and about the set section, hang and unhang ore bucket spout. Placing ore on the set patterns, removing chunks from the deck plates.

23. Unavoidable Delay - Oreing

Waiting on crane man or other crewman or potman during oreing up. The Head Tapper-Carbon Changer is charged to Idle-Part of Crew during Element 22 while the Tapper-Carbon Changer ores set pattern.

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HEAD TAPPER-CARBON CHANGER and TAPPER-CARBON CHANGER (Continued)

24. Miscellaneous

Any work not included in the above such as tapping bath, melting siphons or siphon heads, etc.

25. Idle-Part of Crew

Crewman takes breaks while remainder of crew perform an operation.

26. Idle-Entire Crew

Extended breaks and lunch.

27. Idle-Work Complete

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THIRD TAPPER-CARBON CHANGER

1. Change Carbon-Catwalk

Walk up, on, and down catwalk, remove and replace covers.

Hook rodding. Hook and unhook anode rods. Get and aside crowbars, sledges, rake, etc.

2. Break Mole or Crust

Using sledge hammer and crow bar to break holes and remove chunks. Pulling chunks off catwalk.

3. Wait-Catwalk

Wait for crane to haul out butts or haul in anodes, or short break on catwalk.

4. Change Carbon-Aisle

Hook and unhook carbon in aisles. Lean butts against riser. Hook-rod mark dates on anodes or riser legs. Turn timers on and off.

5. Unavoidable Delay-Aisle

Unavoidable delays in the aisles during setting.

6. Walk-Room to Room

Includes the walking out of one room. Walking into a room should be charged to the job as "Walk To."

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THIRD TAPPER-CARBON CHANGER (Continued)

7. Clean, Stand Butts

Walk to the job, use sledge, crowbar, rake to clean butts, standing of butts.

8. Hook Butts

Hook butts or burnoff rods, handle burnoffs, guide anode carrier about section in hooking butts.

9. Shovel Stub Bath

Remove and replace covers, get and aside shovels, break up stub bath, and shovel stub bath.

10. Sweep Wide Aisle

Get and aside broom, sweeping along ventilators and catwalk step area for mechanical sweeping, moving tools about sweeping area.

11. Unavoidable Delay-Wait for Crane

Wait for crane during hooking of butts and burnoffs.

12. Idle - C, S, HK, SH, SW

Idle on the job during Elements 6 through 10.

13. Miscellaneous

Elements not included in the above elements.

14. Idle-Miscellaneous

Idle or unavoidable delays during miscellaneous elements.

THIRD TAPPER-CARBON CHANGER (Continued)

15. Idle-Part of Crew

Crewman takes breaks while remainder of crew perform an operation.

16. Idle-Entire Crew

Breaks and lunch.

17. Idle-Work Complete

ROCKDALE WORKS
JANUARY 1962 WORKLOAD RESULTS - TAPPER-CARBON CHANGER

<u>Category</u>	<u>Total Observation</u>	<u>Percent of Total</u>	<u>Type of Work</u>
1. Change Carbon-Catwalk	42	3.66	A
2. Break Hole or Crust	45	3.91	A
3. Wait-Catwalk	15	1.30	C
4. Change Carbon-Aisle	27	2.35	B
5. Unavoidable Delay-Aisle	79	6.86	D
6. Assemble, Disassemble Siphon	34	2.95	B
7. Prepare Pot to Tap	49	4.25	B
8. Handle Tapping Equipment	46	3.99	C
9. Tapping	12	1.04	B
10. Observe Tapping	17	1.49	C
11. Chaining	73	6.34	B
12. Unavoidable Delay-Chain Aisle	76	6.60	D
13. Set Up Pot for Operation	13	1.13	B
14. Clean Crucible	11	.95	A
15. Unavoidable Delay-Tapping	45	3.91	D
16. Set Out Anodes	11	.95	C
17. Set Off Anodes	4	.35	C
18. Unavoidable Delay-Set Out and Set Off	27	2.34	D
19. Knock Off Butts	27	2.34	B
20. Unavoidable Delay-Knock Off Butts	41	3.56	D
21. Fill Ore Buckets	19	1.65	C

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ROCKDALE WORKS
JANUARY 1962 WORKLOAD RESULTS - TAPPER-CARBON CHANGER (Cont'd)

<u>Category</u>	<u>Total Observation</u>	<u>Percent of Total</u>	<u>Type of Work</u>
22. Ore Set Patterns	28	2.43	B
23. Unavoidable Delay - Oreing	47	4.08	D
24. Miscellaneous	15	1.30	B
25. Idle - Part of Crew	128	11.21	E
26. Idle - Entire Crew	159	13.79	E
27. Idle - Work Complete	62	5.37	E

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ROCKDALE WORKS
JANUARY 1962 WORKLOAD RESULTS - CRANEMAN

<u>Category</u>	<u>Total Observation</u>	<u>Percent of Total</u>	<u>Type of Work</u>
1. Assemble, Disassemble Siphon	5	.44	C
2. Unavoidable Delay - Assemble, Disassemble Siphon	14	1.23	D
3. Work - Tapping	142	12.33	C
4. Hold Siphon - Tapping	166	14.41	C
5. Unavoidable Delay - Tapping	21	1.82	D
6. Clean Crucible	13	1.13	C
7. Unavoidable Delay - Clean Crucible	1	.09	D
8. Set Out Anodes	22	1.91	C
9. Set Off Anodes	19	1.65	C
10. Unavoidable Delay - Set Out and Set Off Anodes	4	.35	D
11. Setting	172	14.93	C
12. Unavoidable Delay - Setting	33	2.86	D
13. Knock Off Butts	66	5.73	C
14. Unavoidable Delay - Knock Off Butts	2	.17	D
15. Fill Ore Bins	24	2.08	C
16. Unavoidable Delay - Fill Ore Bins	17	1.48	D
17. Ore Pot Bins	58	5.03	C
18. Ore Set Patterns	47	4.05	C
19. Unavoidable Delay - Oreing	15	1.30	D
20. Work on Floor	21	1.82	C

ROCKDALE WORKS
JANUARY 1962 WORKLOAD RESULTS - CRANEMAN (Continued)

<u>Category</u>	<u>Total Observation</u>	<u>Percent of Total</u>	<u>Type of Work</u>
21. Unavoidable Delay - Work on Floor	3	.26	D
22. Miscellaneous	28	2.11	C
23. Unavoidable Delay - Miscellaneous	6	.42	D
24. Idle - Part of Crew	37	3.21	E
25. Idle - Entire Crew	154	13.37	E
26. Idle - Work Complete	62	5.39	E

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CRANEMAN

1. Assemble, Disassemble Siphon

Hooking of siphon head, transport to siphon buggy, place head on siphon, move assembled siphon to horse and move siphon and siphon horse to tap section. The same sequence in reverse constitutes disassembly of siphon. These elements are used for stopped siphons.

2. Unavoidable Delay-Assemble, Disassemble Siphon

Wait for crew to assemble or disassemble siphon, to clean siphon in the case of a stopped-up siphon, etc.

3. Work-Tapping

Move crucible in and out of tap section. Moving crucible, siphon, and siphon and horse about the tap pots. Placing and removing siphon to and from horse and pot.

4. Hold Siphon-Tapping

Actually, unavoidable delay of holding siphon during tapping.

5. Unavoidable Delay-Tapping

Waiting for crew to perform certain operations before continuing work during tapping.

6. Clean Crucible

Travel to crucible, move crucible to cleaning area or setting of crucible aside at the end of shift.

CRANEMAN (Continued)

7. Unavoidable Delay-Clean Crucible

Wait for crewman to dig crucible and waiting while digging crucible.

8. Set Out Anodes

Work such as travel to storage or trailer area, hauling of anodes to set section for setting.

9. Set Off Anodes

Travel to trailer area and hauling of anodes to storage.

10. Unavoidable Delay-Set Out and Set Off Anodes

Waiting for hooking and unhooking of anodes, waiting for the crewman to set out or set off anodes.

11. Setting

Travel to setting section, transporting empty or loaded, pulling of butts, etc. during setting operations.

12. Unavoidable Delay-Setting

Waiting for crewman during setting operations.

13. Knock Off Butts

Travel to, knock off butts, transporting carrier empty or loaded for butts and burnoffs, placing rods in trailer, handling of butt pan.

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CRANEMAN (Continued)

14. Unavoidable Delay-Knock Off Butts

Wait of crane man while knocking off butts or wait for crewman to perform some operations such as hooking butts or burnoffs, unhooking of loads on trailers, etc.

15. Fill Ore Bins

Travel to center passageway, hooking and unhooking of ore buckets, placing of ore bucket to ore tower spout or storage, hanging and unhanging of ore bucket to crane.

16. Unavoidable Delay-Fill Ore Bins

Wait on ore bucket filling.

17. Ore Pot Bins

Travel to section, fill pot bin and rehang ore bucket in west or east passageway. Ordinarily the crane man is working by himself.

18. Ore Set Patterns

Same as Element 17 except crane man is working with Tapper-Carbon Changer in oreing set patterns.

19. Unavoidable Delay-Oreing

Unavoidable delays associated ordinarily with Element 18.

20. Work on Floor

Board, debark crane, change cranes, or perform

CRAWMAN (Continued)

miscellaneous work on the floor such as assisting the tapping crew.

21. Unavoidable Delay-Work on Floor

Unavoidable delays during Element 20.

22. Miscellaneous

Miscellaneous work not included in any of the above elements.

23. Unavoidable Delay-Miscellaneous

Unavoidable delays during Element 22.

24. Idle-Part of Crew

Crewman takes breaks while remainder of crew perform an operation.

25. Idle-Entire Crew

Extended breaks and lunch.

26. Idle-Work Complete.

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