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Phone Call Notes

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Call from D. Dudley – February 15, 63

Results of review of gear drawings.

1. D.D. had noted that the 31 T. helical/pinion driving the roll shafts are not positively held in both directions. He recommended a 2 degree shoulder. It was pointed out that the thrust is towards the shoulder on all of these pinions. He was satisfied that the washer was not needed in this case. Why not put in a washer anyway? We don't understand the cap phenomena and possibly a gear can break against the load direction. The washer would not be held axially.

2. 164575

(a) Backlash .007 not sufficient. We are writing in Gleason.

(b) Under General Notes we have

(g) Inspect - bup is necessary.

(h) Finish grind tolerance diameter. — — — — — — — — —

ADD Make final inspection (Always want final inspection after manufacturing is completed.)
3. 164523

(a) Basic Tooth Rack

Under 5236 put

"Adjust for backlash"

Trip relief modification. It ... Awkward form of note

(b) Add to note "D"

"If contact is not acceptable
improve shaft alignment or modify
helix angle of either member to
match the other"

† NOTE "E"

"In case of corrective
grinding or cutting, tooth thickness
may be reduced to .500 min..."

(c) Material wrong

4. 164527

(a) Note C should be removed from the
roll shaft drawing. The helix modification
note and chart takes care of this. Note C
will be needed in drawing of unmodified

317 gear."
(b) Bome mask

"Adjust to backload"

(c) After note 16
Protect parts against handling scratches
Make final inspection

(d) Handling of roll angle notes

5. D.D. will call Norm Wilson next Friday
to make final arrangements for coming here in
the week of the 25th to tell us about
noise suppression.
Wants Norm Wilson to consider his feeling
that decibel readings in the South Worked
Exp. Mill would be very worth while. It
would peg when we are sure when we want to go.
If Norm agrees do we have equipment and
trained man to make decibel measurements on
the day he comes. He can arrange for
man and equipment if this is not the case.
Believe that similar noise level readings
may be derived at Stelco.
5. **Bevel gear housing**

Ask his opinion on casting vs. regnas morsi suppression.

- **Iron** (high strength, perhaps Manganese)
  much better than weldment.

- **Cast steel** — a little better than weldment.