Fermilab

UPC No. 105

SUMMARY OF THE FIRST TWELVE "200" SERIES MAGNETS IN REGARDS TO RAMP RATE DEPENDENCE OF QUENCH CURRENT

JUNE 22, 1979

D. GROSS &
G. JORDAN

MAGNETS TESTED THRU
JUNE 2I, I979

TA0200
TA020I
TA0202
TA0203
TA0204
TA0205
TA0206
TA0207
TA0208
TA02I0
TA02I3
TA02I5

magnets tested under normal testing procedures.....all

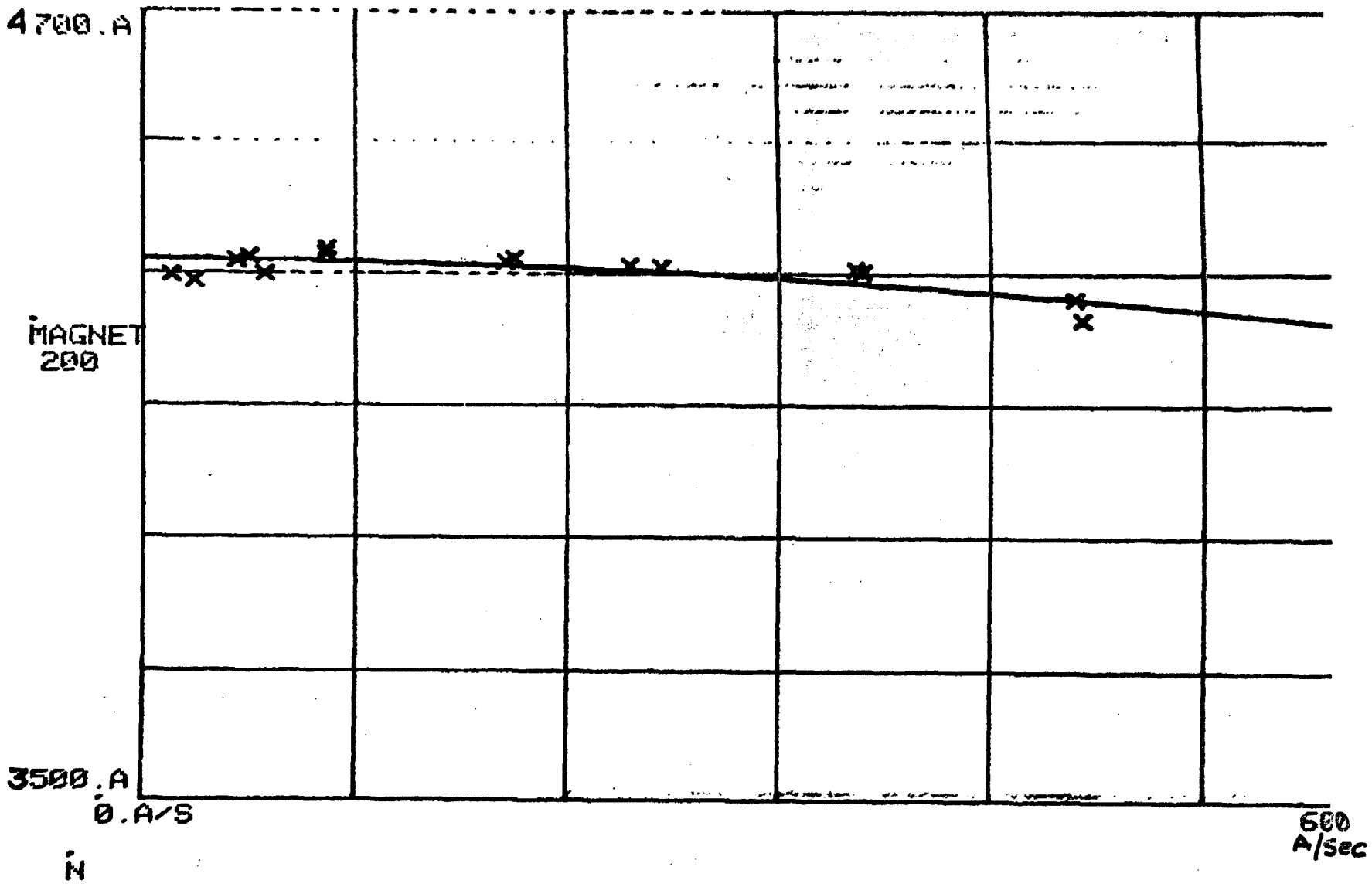
magnets tested with liquid nitrogen in warm bore....200,20I,204,
205,206,208,
2I3,2I5

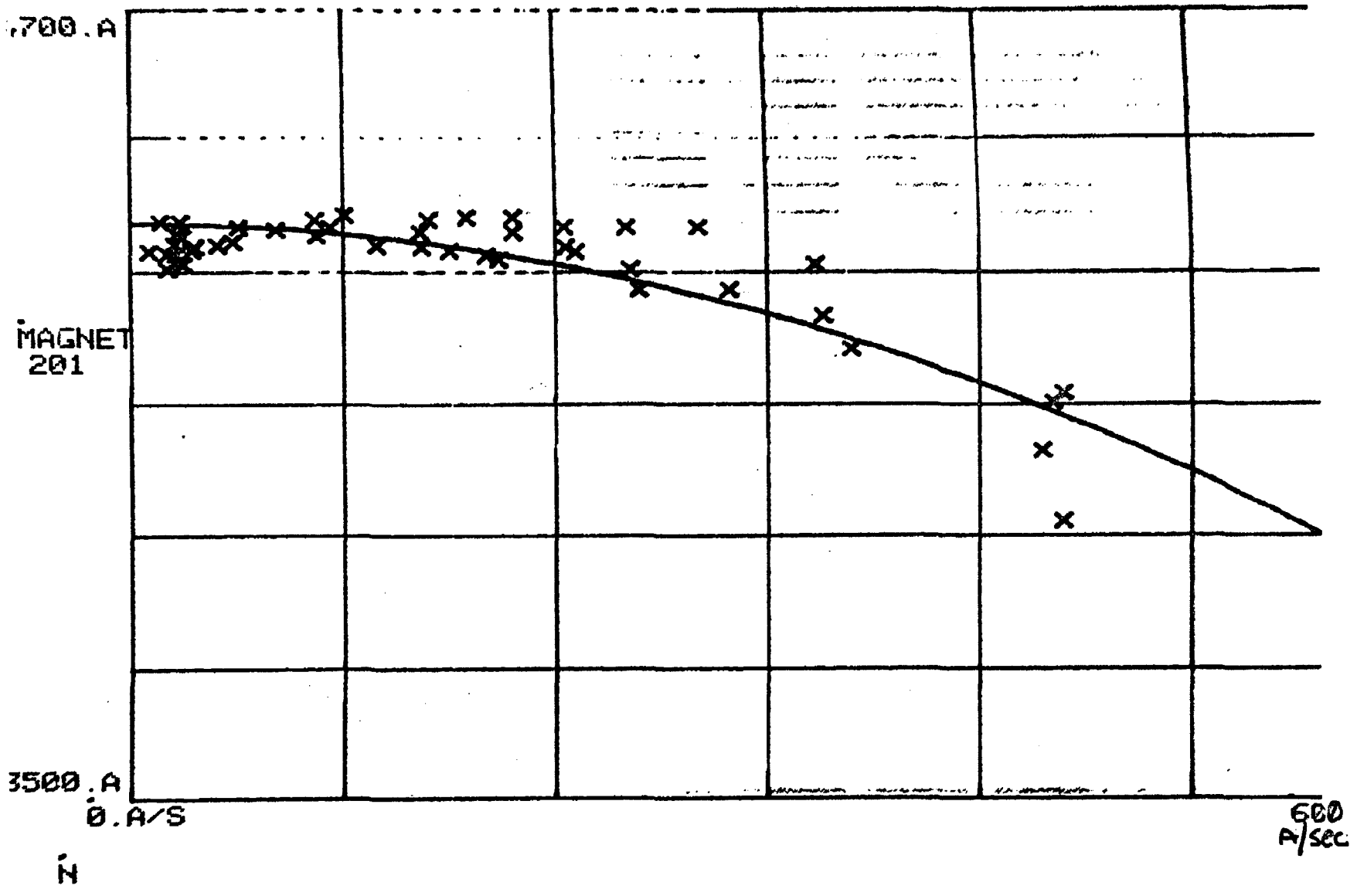
magnets tested after a re-work of yoke.....20I,208

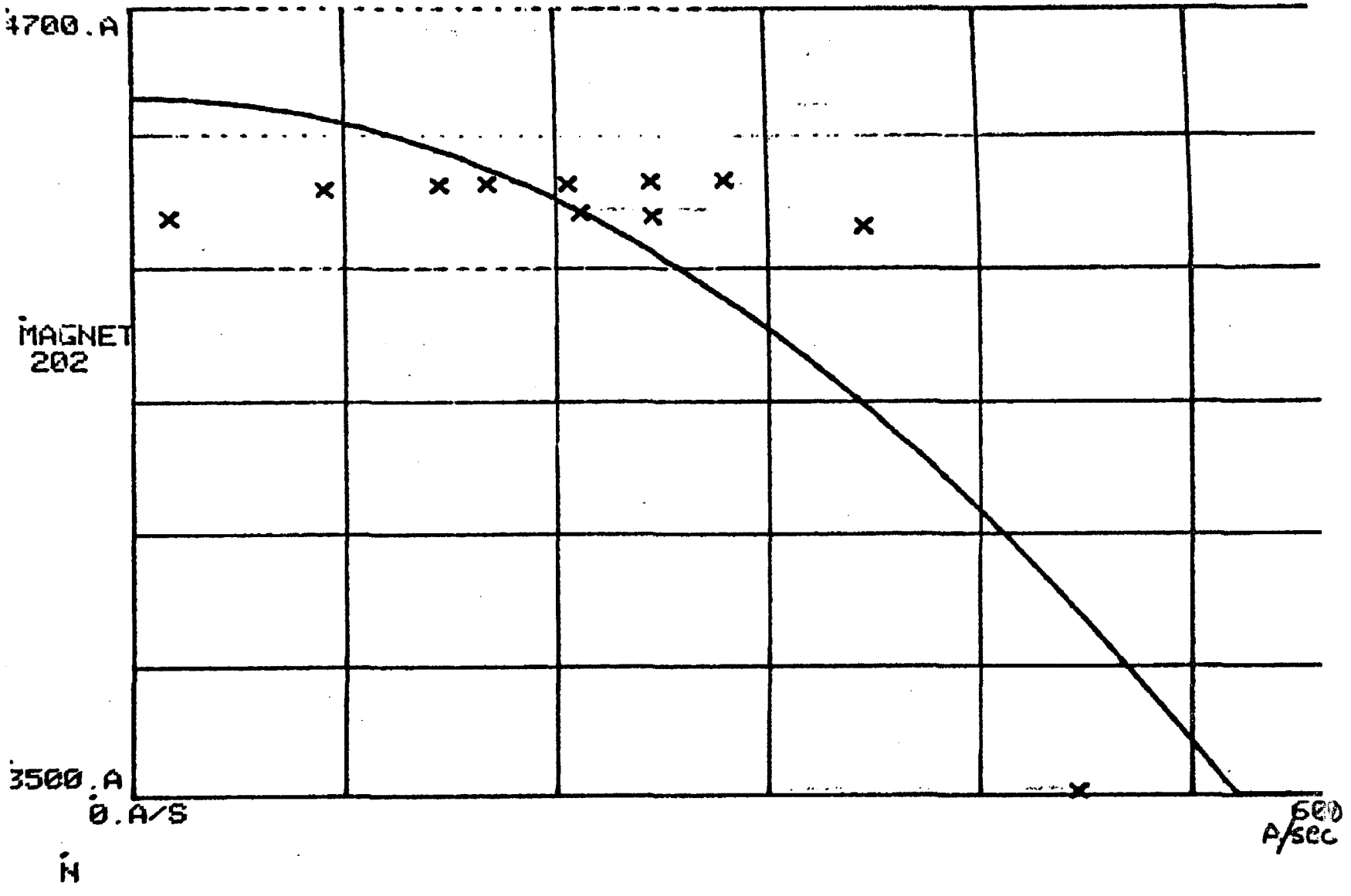
RAMP RATE DEPENDENCE OF QUENCH CURRENT

MAGNET	STD. #	WITHOUT LN2 MAXIMUM CURRENT	WITHOUT LN2 APPROX. 200A/sec MAXIMUM CURRENT	WITH LN2 MAXIMUM CURRENT	WITH LN2 APPROX. 200A/sec MAXIMUM CURRENT
TA0200	6	4338	4320	4331	43I5
TA020I	5	4342	4335	4387	433I
TA0202	2	4434	4429	N/A	N/A
TA0203	5	4214	42I0	N/A	N/A
TA0204	5/2	4370	4338	4370	4360
TA0205	4	4382	4380	4370	4370
TA0206	4	42II	4I92	442I	4400
TA0207	5	4402	4370	N/A	N/A
TA0208	5/2	4304	4304	4307	4300
TA02I0	2	4224	4220	N/A	N/A
TA02I3	6	4I63	4I40	4402	4382
TA02I5*	6	42I6	4050	4294	4060

*TA02I5 WAS "TRAINED"


4700.A
MAGNET
200
3500.A
0.A/S
600
A/Sec
N


700.A
MAGNET
201
3500.A
0.A/S
600
A/sec
N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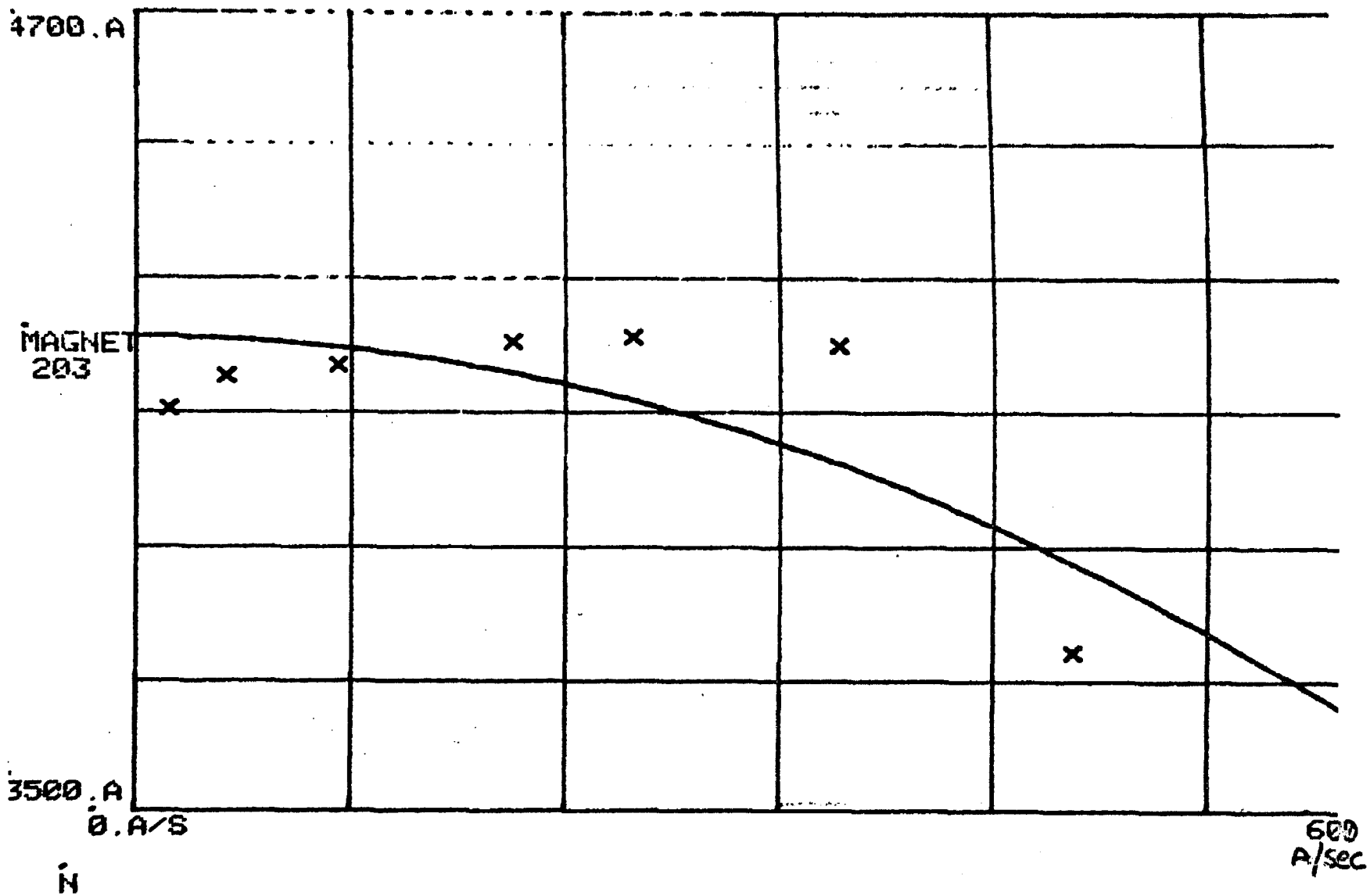
MAGNET
202
3500.A
0.A/S
600
A/sec
N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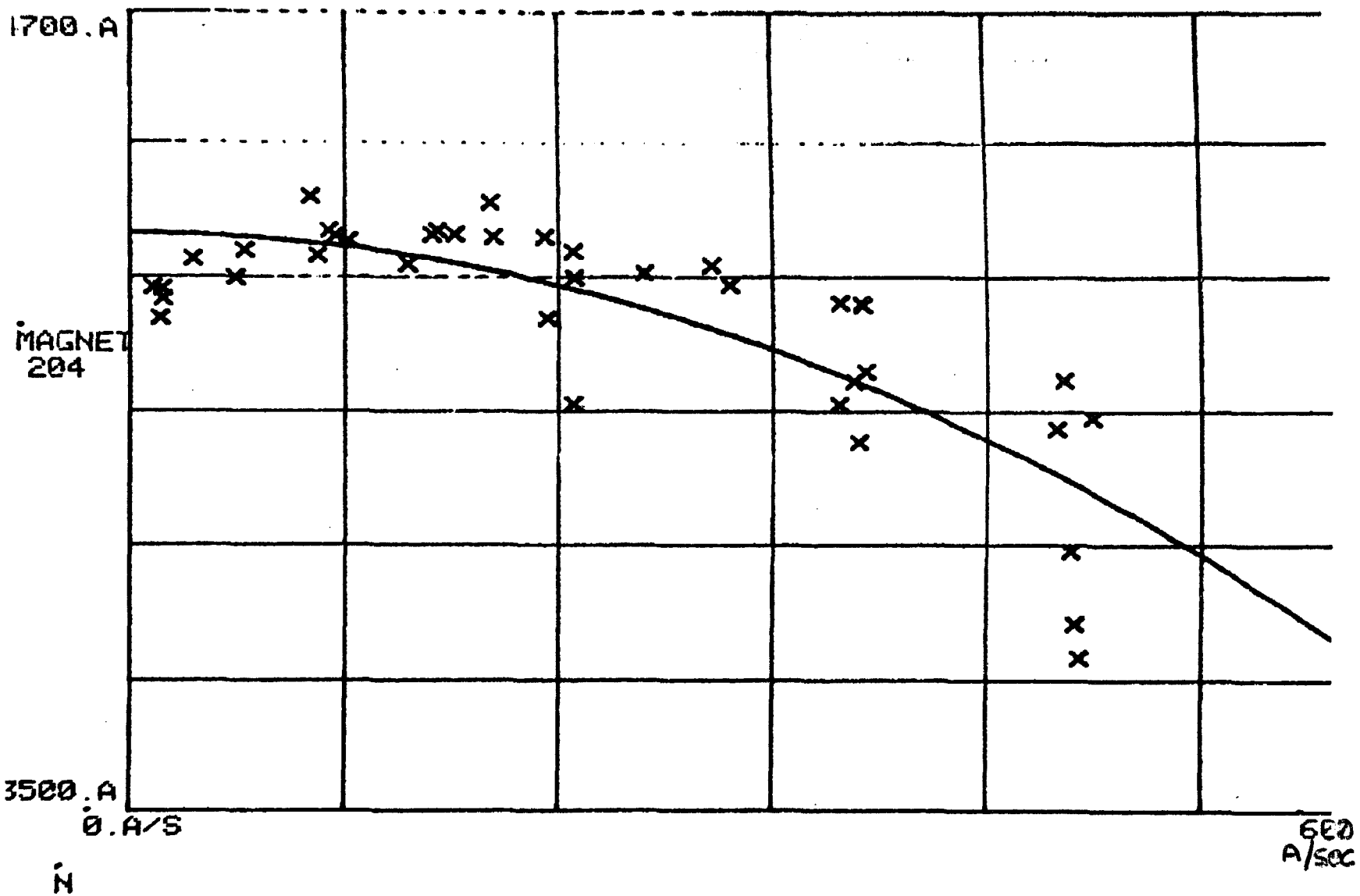
MAGNET
203
3500.A
0.A/S
600
A/sec
N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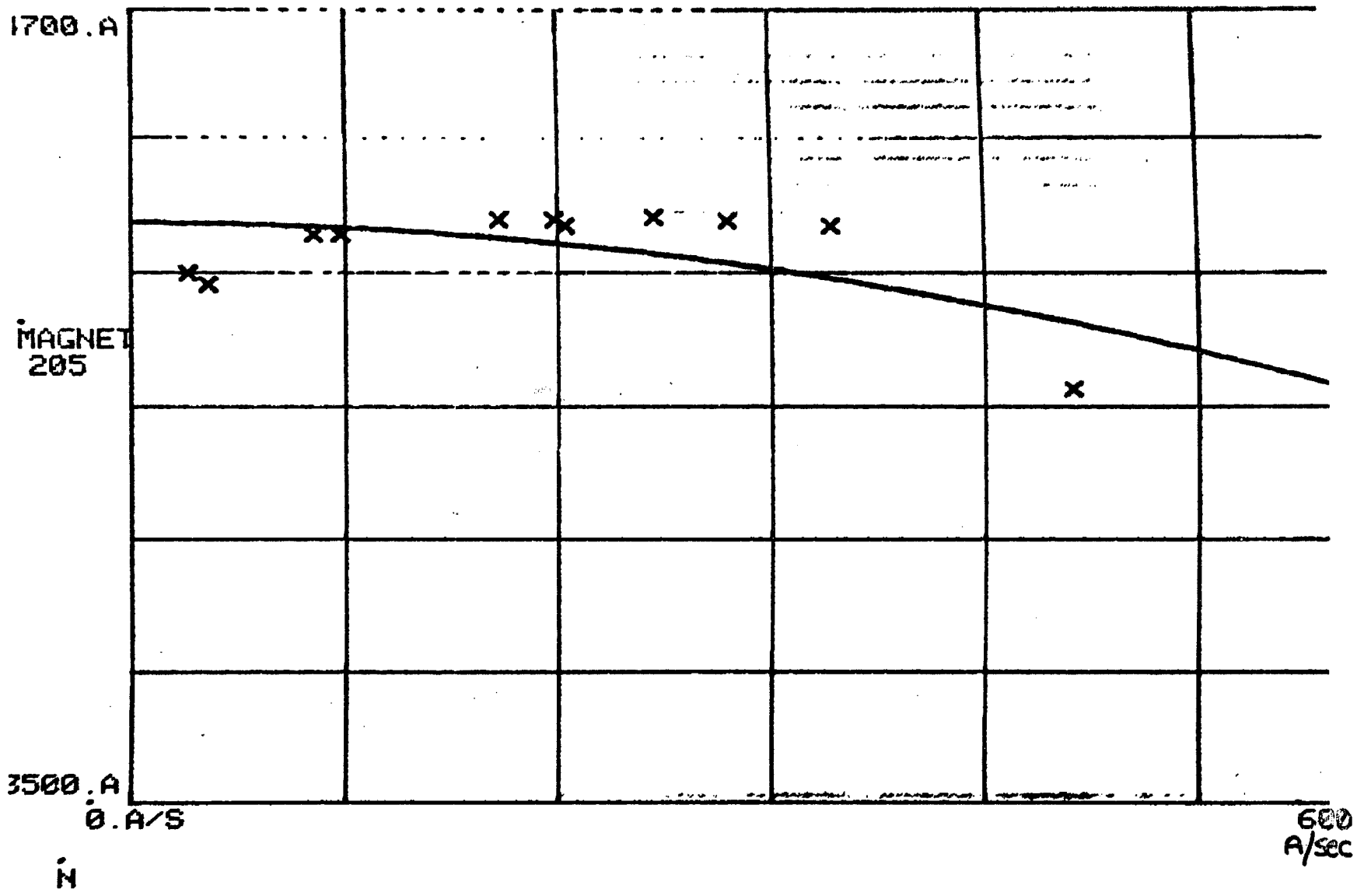
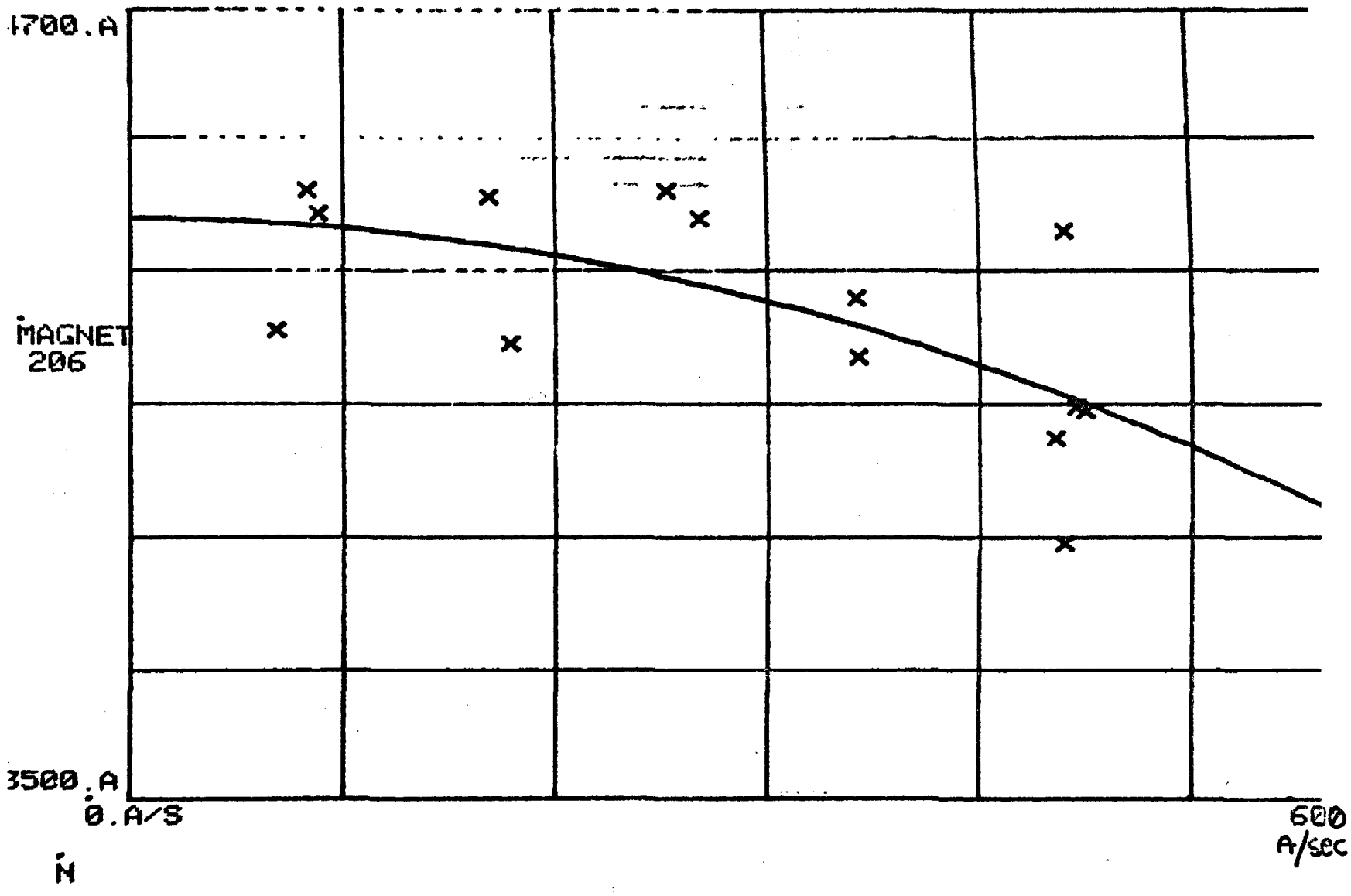
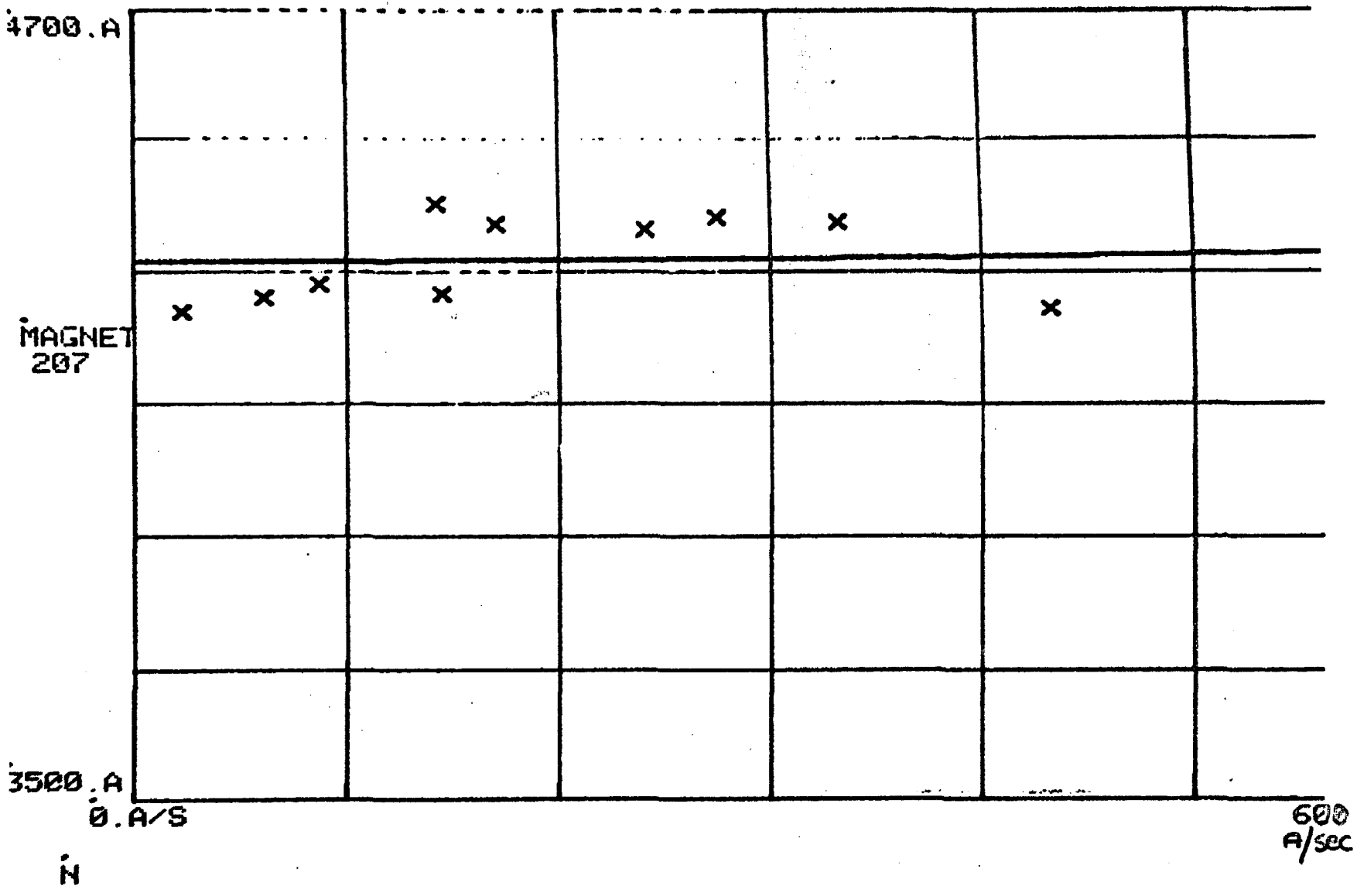
MAGNET
204
3500.A
0.A/S
600
A/SEC
N


1700.A
MAGNET
205
3500.A
0.A/S
600
A/sec


4700.A
MAGNET
206
3500.A
0.A/S
600
A/sec
N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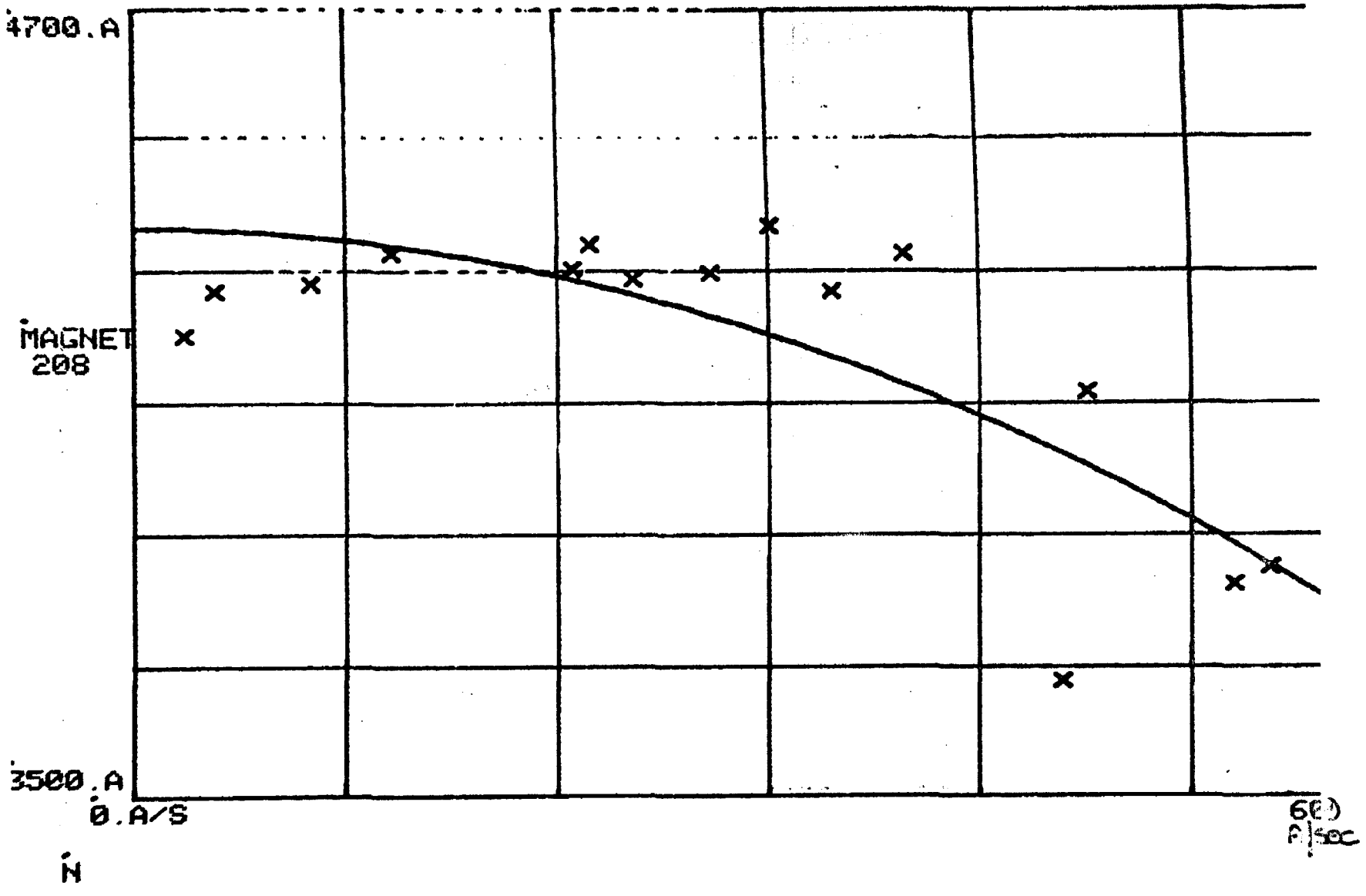
MAGNET
207
3500.A
0.A/S
600
A/sec
N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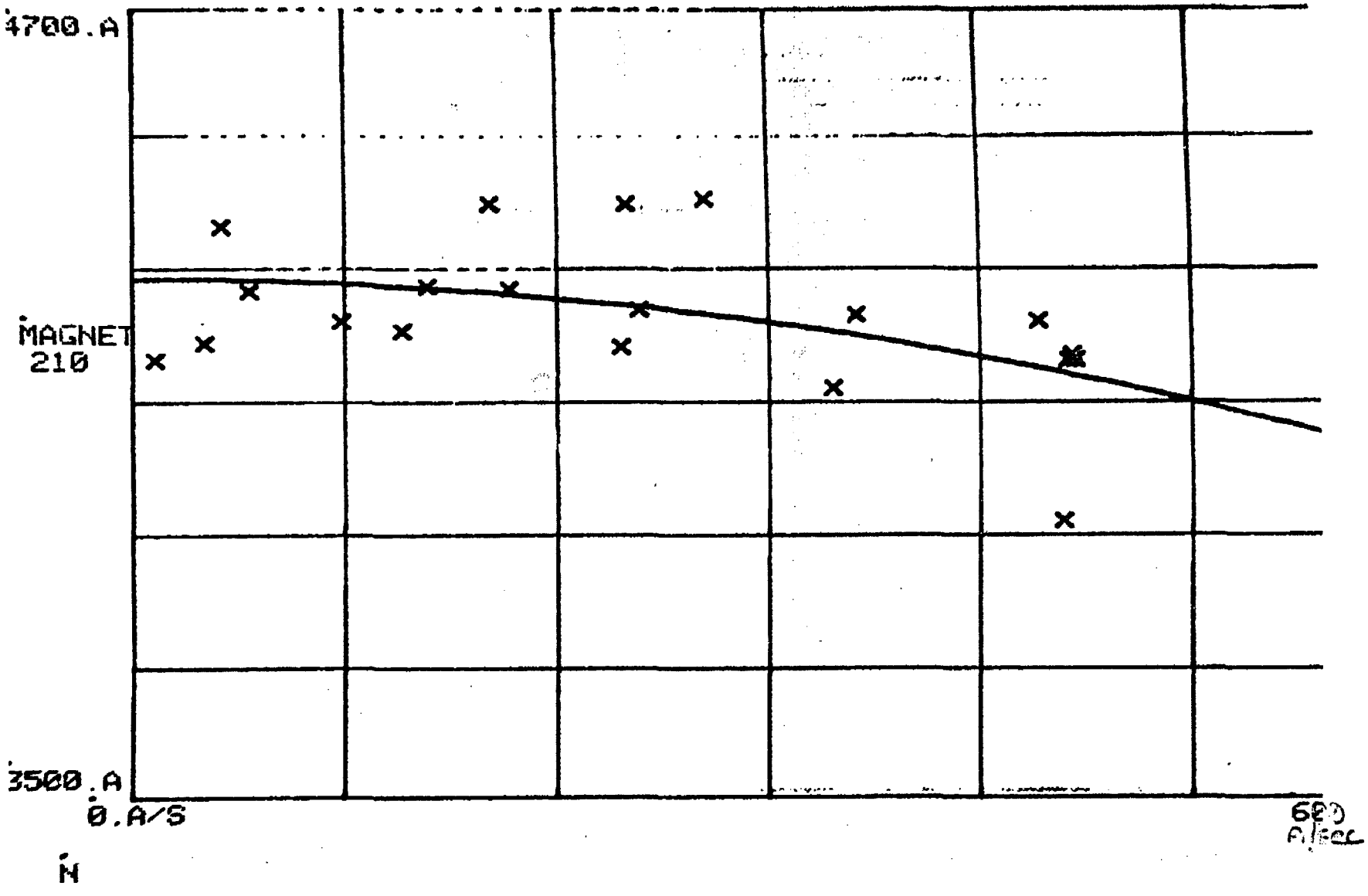
MAGNET
208
3500.A
0.A/S
600
A/sec
N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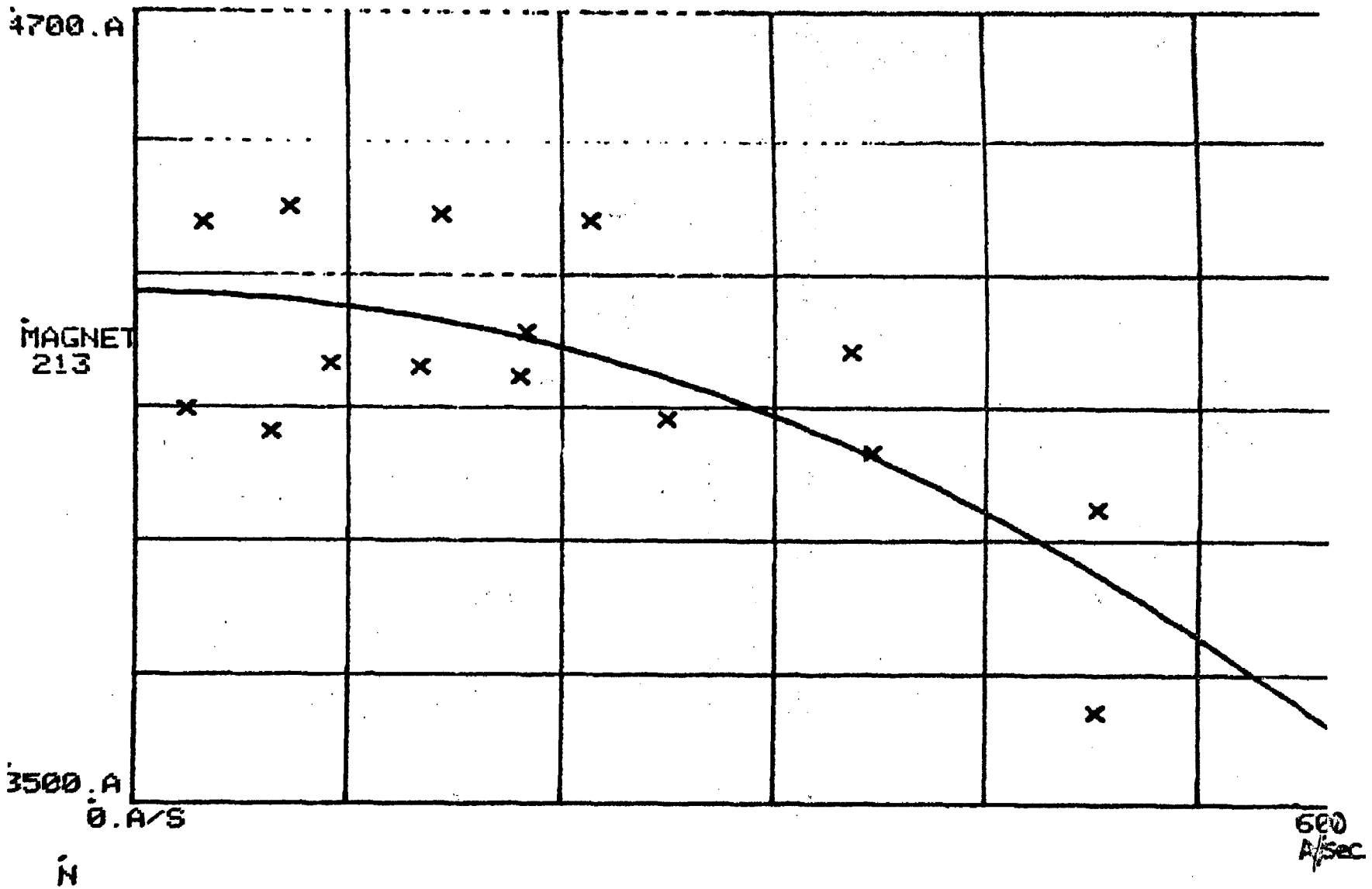
MAGNET
210
3500.A
0.A/S
600
A/SEC
N


4700.A
MAGNET
213
3500.A
0.A/S
600
A/sec
N

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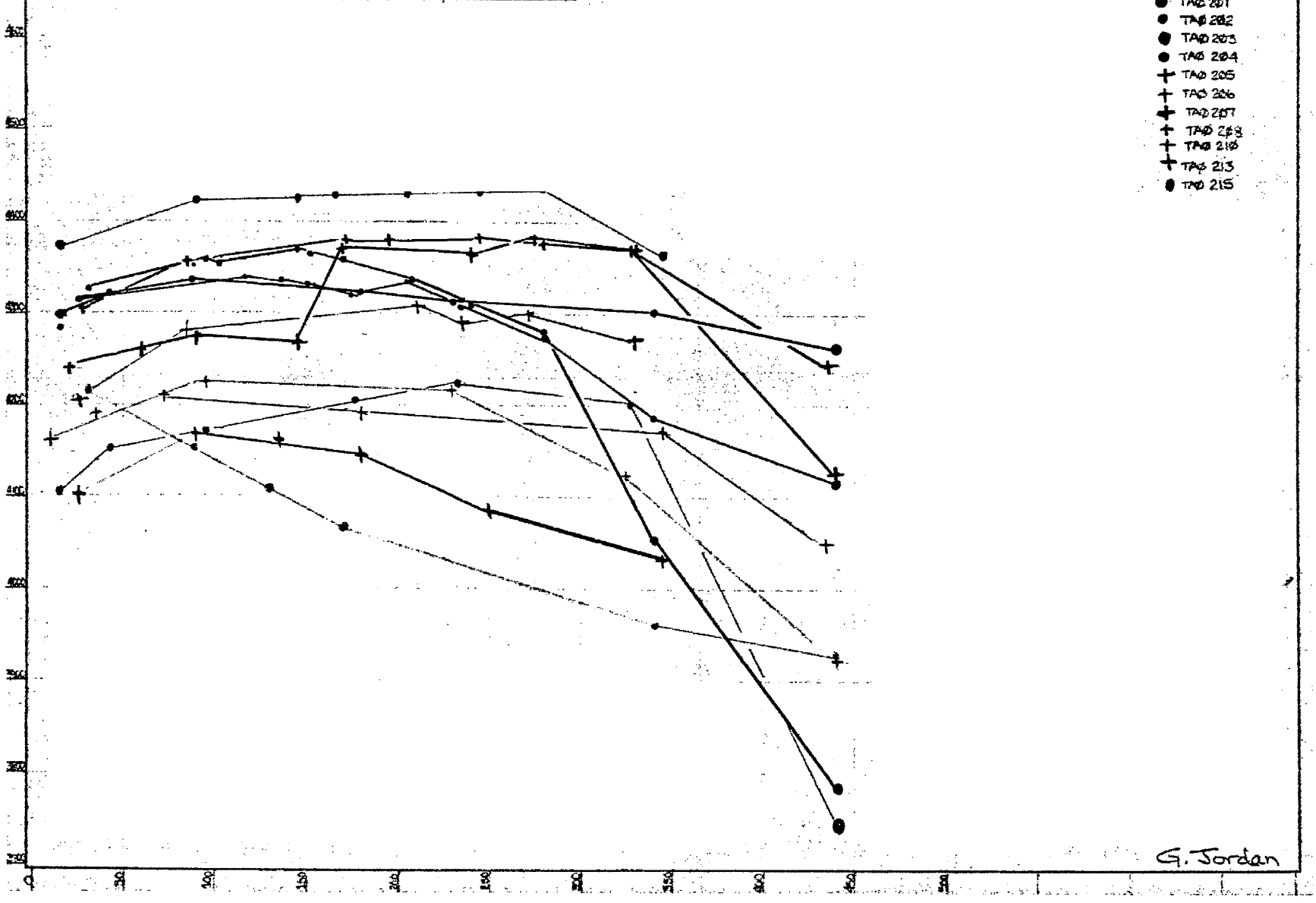
ENGINEERING NOTE

SECTION	PROJECT	SERIAL-CATEGORY	PAGE

SUBJECT: RAMP RATE DEPENDENCE OF QUENCH CURRENT
MAGS: 200 THRU 215 NO LN_2
LESS 211, 212, 209, 214 NO REWORK

NAME:
DATE: 6/12/79
REVISION DATE:



G. Jordan

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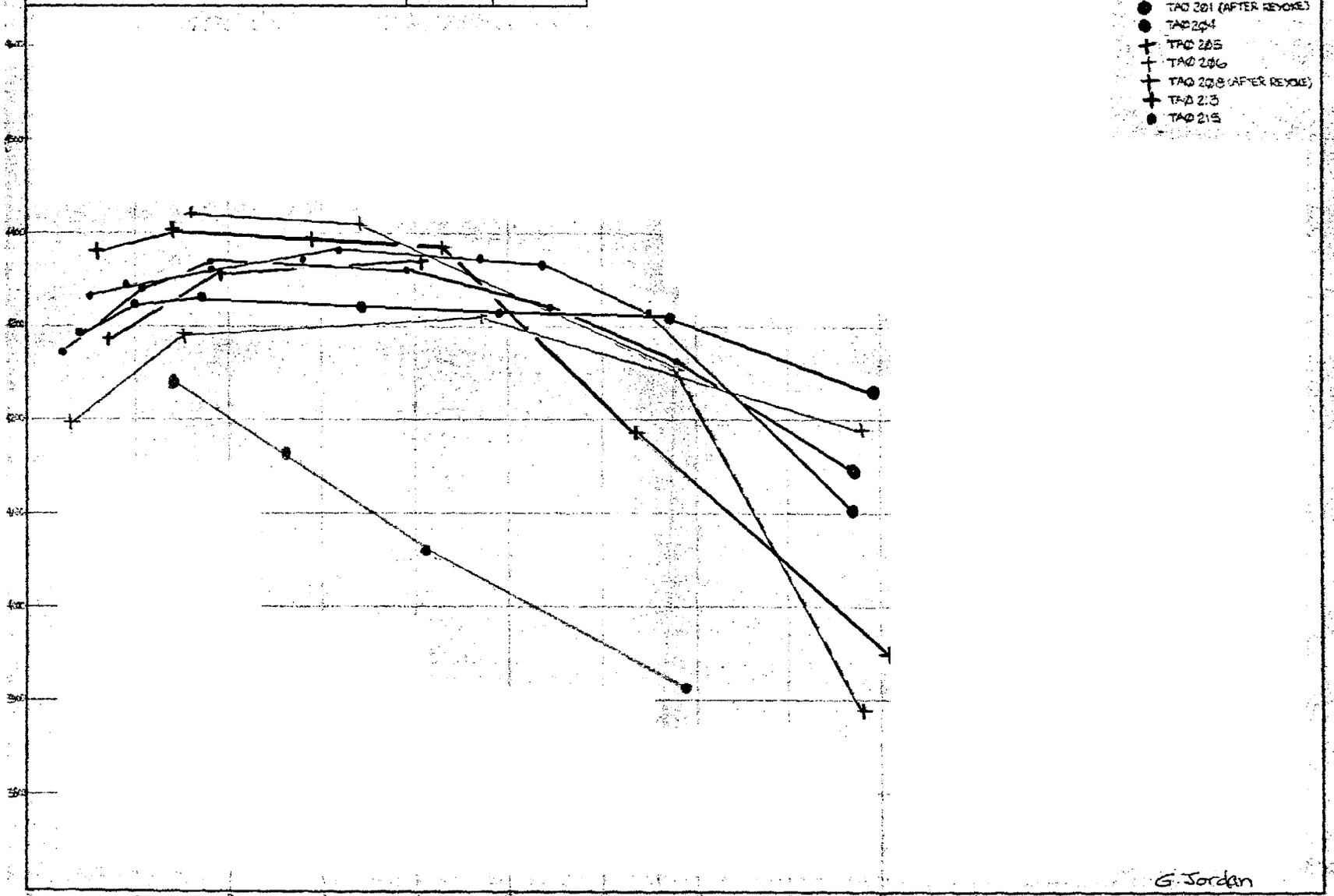
ENGINEERING NOTE

SECTION | PROJECT | SERIAL-CATEGORY | PAGE

SUBJECT: RAMP RATE DEPENDENCE OF QUENCH CURRENT WITH LN_2 IN WARM BORE

NAME | DATE | REVISION DATE