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	approve of them . All those regulations , as far as they go, are
	ulations I would approve of with a few exceptions in the word
	they are very good factory regulations. I would suggest improve
	ments in the wording to make them less ambiguous.
is a	fact who located those buildings as danger buildings", were
	you consulted about that ? Generally, I was . I do not remember if
	under the Act a plan of the buildings had to be submitted to the
	Minister altogether. I do not remember wh ether I was generally
	consulted as to the position and class of those danger buildings
	will turn that up and see if I have a record of it. I can only
	remember that I was consulted generally . The danger buildings wit
	respect to which there are special provisions are all set out in
	the schedule to the regulations and they are described - the pow-
	der room; the prodering and covering; the howder shaw
	the breaking up room; the mixing house; the oil and spirit stores a
-	the magazines, and the provisions for the quantity of powder and
	cartridges in each case is set out.
is a	fact at Woolwich , do they not allow 50 lbs in any one room where
	powder is dealt with, I mean, powder either open or in cartridges un
	covered ? 30 lbs is the maximum, including what is in the bin.
ha	ve the regulations , Regulation 6, "Not more than 50 lbs of powder ei
	er loose or in cases not wadded are to be in the building at any
	one time.R.L.IOO:22/II/84" ? I have the last Woolwich rules, with
	me. Disapies Alleri
	, en organi

This Deponent \* WILLIAM MIDDLETON GARDEN

VICTORIA, TO WIT.

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ion I was employed to collect the debris with a number of men from the Permanent X artillery. We conveyed what we x collected to the magazine and there sorted it out - there were 82 barrels - it was collected from the place that was blown up and round about - it was all counted and examined. I handed the list to the magazine keeper, Mr Baldwin . No I is , cartridges blank, not exploded , 12,000: No.2, blank exploded , 12,325 - cartridge ball, without caps, 3,360; with caps, 423: No.5, powdered and wadded , without caps, 4,675: No.6, cases: No.7, ball exploded, 19,310. There is an item , No.12, sporting powdered, estimated 20,000 rounds - they were not exploded . I believe those were the casks of debris that the Jury saw (list handed in, Exhibit T) To sort and examine the debris it took about three weeks .

To Mr Bryant - Out of the 82 barrels (reading from rough notes) there
were 3,147 cases without caps; cases with caps,2,310 - cartridge
cases that had not powder in at the time of the explosion,547 empty sporting, 15,400. "Sporting powdered, estimated 20,000", had the
powder in ,the cartridge only and the wads and they were unexploded.
We counted one barrel and estimated the others - there were 1,200
in a barrel. The barrels were different sizes, and some more full
than others ."3,147 cases empty, apparently not exploded" - some of
them had the outward appearance of being in the fire and you
could not tell whether they had had powder in them at the time of
the explosion - they were rolled brass cases . 26,700 bases, that is,
heads - there was no sign of the bodies of those . By heads, I
mean base disks with the base caps attached to them. Roughly there
were about 55,000 cases and cartridges not exploded, apart from those

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, and this time I think he came over and talked them over and we got them down to two and the Minister gave way on one, and we gave way on the remaining one. As to this No. I filling room, those partitiions were put on Mr Hake's recommendation. At the time of this consultation after going through the regulations he insisted on having the bulk head put up at the end of No. I filling room. The idea was that when you went through that No. I filling room that should be the end of the danger buildings and that the danger buildings would commence there. The one at the Eastern end was put up at once right across the building. In fixing the regulations, the operations to be carried on in No. I room were not explained that would be impossible, being a non-danger room - there were about 600 operations. In the danger buildings they were defined. Those buildings, as I have them, were constructed from designs sent out from Home and approved by the Defence Department before any were erected. As to the quantity of stuff in the room at the time of the explosion, there were about 100,000 crumped blank, from 2,000 to 3,000 at the pressing machine under the bench , and in adv dition to that about 34,000 ball cartridges partly loaded in the same room, and some sporting cartridges as well - a large proportion of those would be empty cases, paper sporting - they were in the sporting room under operation. Taking the No. I room www apart fro the partitioned parts there were about 34,000 cartridges being made; that was in addition to those at Miss McLeod's bench. The was no loose powder whatsoever in that room that day. I had bee that room three or four times that morning. If there had beer powder I should have seen it because it was always kept on Taken and Sworn before me the

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heads .	
To Mr Box - No.2 , cartridges blank, not crimped, exploded, I2,000 - those	
were counted . "No.7, ball, exploded ", those were counted . No.16,	
Martini Henry, broken up ,I,470 - those were broken.	
To Mr Bryant - I mean by broken up, the powder drawn, and in most cases	
the brass stripped off - unattached to the head. (showing samples	
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November 7 Footscray William.M.Garden.	
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This Deponent * ALBERT BALDWIN
VICTORIA, TO WIT.  on his oath saith, I am a
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To Mr Box - I am the keeper of the powder magazine, Marybyrnong. I re-
ceived the debris of the accident from the last witness. I concur
with him as to the amount - I made up the list. That was brought
from the factory to me and placed under lock and key and afterwards
examined as per result there. I think none of them are over-esti-
mated, if anything, rather under - there is nothing there in excess
of the facts. That is what the Jury saw in those barrels, four
"frames" (showing one) "ammunition box" (showing one) "26,700 bases"
(showing) "No.16, Marini Henry, broken up (showing . Exhibit U) They
appear to have been broken up by hand and the powder taken out .
"No.I cartridge blank, crimped , 12,096" (showing) Those are loaded
and have powder in . Amongst the debris there were some not
crimped, not exploded. There appear to have exploded, about
30,000 rounds .
To Mr Bryant - I cannot give the proportion of crimped to uncrimped. The
figures were supplied by Mr Garden, not made out by me.
Taken and Sworn before me the
of November 189 7 at Footscray.  A.Baldwin.
Cans Ly Coroner.

	Tl	nis Deponent *	WILLIAM	MCGREGOR	CAIRNGROSS	
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To Mr Box - I am Comproller of the Ordnance branch of the Defence Department. I hold the commission, Lieutenant-Colonel in the Militia. I have been Controller of Stores fourteen years ; that is during the whole time this factory has been in operation. I have been in court during two of the days of the Inquiry. While in Court I saw exhibited on the table a pressing machine. If the machine was sold by the Defence Department to the Ammunition Company the Defence Department had never pressed blank cartridges - they never had a machine for pressing blank cartridges. I know that Captain Whitney bought 25 or 26 sets of re-filling machinery for ball cartridge. I recognised the machine - it seemed to be a similar shaped one to one we had for pressing the bullets home after the cartridge had been re-filled with powder and wads. I cannot say it is identical; if so, that machine has been altered in some very in certain parts essential parts. That has not the appearance/of the machine we sold to Captain Whitney: it had a guide on it and a handle , but it had not a piston to drive the powder home. The body and handle appear to be like the machine - it had not the piston but a small Role corred to allow the bullet to go into it (showing). I would almost say it is the machine with those alterations, and it had & Kynoch's brand on it - there were 25 of them. The Department never made or pressed blank - none of ours had that spiral spring on. If it was our machine, that is an addition. I am a Member of the Testing Board. As to all the testing of ammunition on behalf of the Department I have been present at almost every test. I have made a comparison from the records of the Department of the rejection of Martini Henry ball ammunition! I produce file, No. 902,31/12/95,13,260 were rejected on that batch - the batch was

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134,000 cartridges - they were rejected for faults ,five pierced caps having been found. The packing and the powder were satisfactory in that case.(Exhibit V) I produce file 903;136,500 cartridges of which 68,250 were rejected (Exhibit W) - the packing was satisfactory and powder satisfactory.

Mr Bryant objected that the line of inquiry was not relevant.

The Coroner overruled the objection.

To Mr Box - I produce file No.928, showing 81,900 rejected (Exhibit X)

Also file 565, showing 42,000 rejected, 21/7/96 (Exhibit Y) Grounds of rejection - grounds of rejection, having failed in accuracy after a second proof -packing satisfactory - powder satisfactory, so far as can be judged by the eye and weighing. All I have mentioned up to the present time are ball cartridge. 9/9/97, IO,000 odd cartridges for the South Australian Government - I have not those proceedings - I am a Member of the Board, but was not there on that occasion - Mr Hake has those.

Mr Bryant - As to file 902, the testing we put them to is shooting on high range and taking samplesof the ammunition to see they and fit and also internally - we pull some to pieces - each shot must be within a certain radius of the centre . "On comparison with Imperial" means that we allow 2 inches of handicap in favour of the Colonial ammunition - the Imperial would require to be not more than one foot variation, but we allow I4 inches or perhaps I5 inches with the Colonial. If the figure of merit ----- on the paper is I ft 4 ins. and we passed it, it may have been a very windy day. I should think it ought not to be passed - that is my signature (reading the paper) - that is evidently explained. Supposing the English turned out very bad that day, I ft 2 ins, we would pass the

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other as I ft 4 ins, allowing the two inches. Looking at another lot, I3, 260 rejected - nine cases containing 540; five cases containing 520; ten cases containing 580 each, total I3, 260 - figure of merit. I ft 2 ins . Faulty cases I + 4. We take 4 per thousand to test. Out of about 52 tried we found five cases faulty - it might be in the cap or the burst cases . If the cap is we pierced by the striker that is another fault - that would show it was a very thin copper cap. It does not necessarily follow that the whole 13,250 cartridges are bad - we might have dropped on the bad ones altogether, and all the others may be entirely right. As to No.902 in the previous total 101 98.99 and IOI 44,000 were to be retested, and in this report 902 they are re-tested - lots 98 and IOI recommended for rejection, two pierced caps, IOI, two burst cases out of 84 cartridges there were two pierced caps, Berause there were two pierced caps in 2I,000 cartridges the whole 2I,000 were rejected. In lot IOI, IO, 500 were recommended for rejection because two cases burst. When one bursts it may strike a man's eye - that has happened with ammunition Factory cartridges - it should not happen with good ammunition - I do not know anything about rifle shooting. Batch 103,20 cases each containing 1050,21,000, faulty cases - two pierced caps and one burst case - that is in 84 cartridges to be rejected. The proportion of burst cases and caps allowed is laid down by regulations - I cannot remember the margin allowed without the papers. Lot IO7, I5, 750 - faulty cases one pierced cap and one burst case and one misfire out of 60, three flaws - of the whole lot about I6,000 were rejected. Lot I04; I5,750, and lot I08; I5, 750" inaccurate". Lots I05 and I06, inaccurate and defective cases, recommended for re-test. Lot 98;21,000, that had

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,	previously stood over for re-test - that had been recommended for
	rejection, two pierced caps. Supposing we are testing the factory's
	ammunition at high range we always test some Imperial ammunit-
	ion for comparison - we do that on every occasion. This is the
	regulation (reading the same)
	Martini Henry ammunition', We consider that does not cover what has
	been accepted from the Ammunition Company - we use the Imperial
	ammunition every time. Lot 98;21,000, figure of merit I ft 6 ins -
	one faulty case - no misfires - to be re-tested for faults and ac-
	curacy. Out of 84, one faulty case. It was a question of accuracyin
	shooting in that case - recommended for re-test for faults in
	accuracy. Lot 99; IO,500: figure of merit 3. One faulty case - no
	mis-fires -re-tested for faults - out of 42, one faulty case.
In 9	8,99 and IOI it is shown they are not to be rejected, but re-rested:
	where is it shown that they are to be rejected, as you stated to
	Mr Box? I cannot find that document. There is no paper in this
	file that shows the recommendation for rejection - it does not
	exist and never did exist . "Recommendation for re-test" is all that
	is here. The official records that show the reasons for the recom-
	mendation for rejection of those lots are on the proceedings of
	the Board (looking at papers) These are the re-tested lots and this
	is what has to be done with them - that is the place where the re-
	jection is made . This file of papers contains the result of the
	first test. The sheets that follow show the tests for accuracy.
	In 902 those three lots, 98,99 and IOI are recommended to be tested.
	We can see that 98 and IOI were re-tested - we do not have the blue
	paper for the second test - we merely fall back on the recommend-
	ation shown in the first. Captain Whitney only gives the one paper
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when it is tested. Those are Captain Whitney's forms, not the De-97,650. "The Board wish to draw attention to the large number of pierced caps in this test, eleven. In addition to these defects a very large number of caps were found to be, after firing, almost perforated. Batch III: 15,750 - figure of merit I.09 faulty cases, nil; misfires, nil: recommended for acceptance on retest on comparison with Imperial". We re-test the ammunition . IIO: II,550 - figure of merit, I.33 : faulty cases, nil, and misfires, nil; recommended for acceptance on comparison with Imperial. II,550 -I.45 - faulty cases , I w burst cases / recommended for acceptance. I do not think it is a pretty severe test - it is just the ordinary - those are the rules laid down by the Imperial service . 104, the lot to be re-tested on the first occasion .I.47 - misfire, nil; faulty cases, nil - they are to be retested. Re-tested IO/2/96 - result, XM figure of merit I.II faulty cases, three pierced cases - misfires, nil - recommended to be rejected. Out of 63, three found pierced, so the whole were rejected. I am aware that all the caps put in are imported by the factory from England . I do not know that they are obtained from the War Office, England. The defect that here was zo i the manufacture of the cap. IO5, a re-tested lot, I5,750 - figure of merit, I.70 faulty cases, two burst cases - recommended to be rejected . "Not taken" means the diagram is not taken because there were two burst cases. We fired 63, and there were two burst cases, and the whole I5,000 were rejected. Lot I06:I0,500 - figure of merit, I.23: not taken. On the first test the figure of merit is I.23, and on the second test the figure of merit was m not taken because we

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two out of 42, so the whole were refound two pierced caps jected. Lot 108, lot to be re-tested - on the first occasion I.36 was the figure of merit . Second occasion it was not taken because there were two burst cases and one pierced cap - out of 63 there were three defective. Lot IO9: I5,750 - figure of merit not takenfaulty cases, two pierced caps and one burst case; that is out of 63 . Lot II2, blank, I2, 600 - figure of merit I.4I - two pierced caps - recommended for rejection - that must be a mistake with blank cartridge (looking at the papers) The papers show that that is a mistake of the Ammunition Company's - it should be ball cartridge, not blank. We have been led into a trap by the Company putting in "ball" - it is a small error that might take place in any office. Lot 965;42,000 rejected out of 303,020"The following lots were recommended for rejection wxxxx having failed in accuracy after the second proof. That shows that 168 was rejected for want of accuracy in shooting. Following that ,965, from 27th July I896 right on to the present time my papers show that no cartridges at all have been rejected - I cannot say how many have been supplied to the Government. If you say that since July 1896 a lot of 500,000 have been supplied by the factory to the Government of South Australia which were tested by the Testing Board here, that is probably true. They were passed with the exception of one rejection, and I think it was not submitted again for test . "Rejected 8,400. May 3Ist, tested again and passed. There have been delivered to the Victorian Government since July /97 blank and ball 170,000. odd - I cannot say whether there were any rejections. Between July I896 and I897 we have had at least a million and a half , and I believe there have been no rejections in them. This paper is a

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record of all the rejections up to now, so that there evidently have been none - that applies to ball. There has been a rejection of a small lot of blank since the accident. Since July I897 the supply of caps the factory have from England has improved - there have been no pierced caps for sometime. The chief defects in previous years were the pierced caps.

- To Mr Box There were some Kynoch cartridges and some others & sent to the factory to be converted to blank 83,586 Colonial Ammunition:

  IGI,750,Kynoch,and X 484 American I sent those to be converted.I cannot say when the 83,586 were manufactured. Permission was not for asked, by Captain Whitney or the Company. As to the re-use of the powder taken from those cartridges, nothing was ever said about it as far as I know. As a fact I do not know whether that powder was re-used.
- To Mr Bryant The 83,586 would be in stock for sometime before being sent for conversion. If Captain Whitney says they were in stock from I890 I cannot say whether it is a fact.
- To Mr Fedden The last lot rejected a month ago was I think because the burst cartridges were being fired off I think that was the wax cause. Bad shooting might be through the badly constructed cartridges damp powder would make bad shooting I cannot express an opinion as to the cause of inaccuracy.
- this factory and that supplied by factories in England we have copied the English regulations as to rejection. I cannot say how the results will compare with those here I have had no experience in ammunition factories in England.

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T7	This Deponent* CECIL NAPIER HAKE
VICTORIA, TO WIT.	on h is oath saith, I am a
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To Mr. Box - I am the Inspector of Explosives for this colony. In the dealing with and examination of explosives I have had over twenty years' experience: that is in England and here. As to England I firs tly studied chemistry four years, I subsequently was chief assistant to the Chemical examiner at the Explosives Department of the Home Office. I was Acting Chemical Adviser for one year during the absence of the Chemical Inspector. I was four or five years pracbising as an expert in London and then I came out here and have been here seven years. I had acquaintance with the ammunition factories at Woolwich Arsenal. I was there several times prior to my arrival in the colony, and was working there over four months continuously on a visit to the old country at the small arms factory Woolwich Arsenal. I visited the site of this explosion on the afternoon of the day following the accident(Looking at plan "S") The roof was blown off, half being deposited on the north side and the other half being blown over No. 2 building and deposited about fifteen yards distant from No. 1. The roof was practically intact not even the wood lining being seriously damaged. Both ends of the building were blown out and about half of the sides towards the west end on both sides. A window in No. 2 building was blown out. Part of the galvanised iron was perforated and inside No. 2 I found a number of cartridges which had exploded. The roof of No. 2 building was crushed in to some extent and some of the windows are broken. The wood lining of the two roofs was not damaged except

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7	wood lining not being damaged suggests to me that the explosion
7	was of a very gradual nature, not sudden, but caused through slow
	combustion of gunpowder. (Looking at photos.) I made a very careful
	and detailed examination of the ruins and found that the galvanis-
	ed iron under the bench where Miss Mc Leod had been working had
	been subjected to severe heat(the north-east end of No. 1 build-
	ing). at that spot. The wood work under the bench was severely
	charred but only seriously on so on the surface. Along the same
	side of the building under the bench similar effects were present
	but to a less extent at least as far as the walls remained stand-
	ing . The thin wooden bin standing against the partition at right
	angles to Miss Mc Leod's bench was severely charred and its appear
	ance suggested to me that the flame had brushed it from under the
	bench in its direction. On the opposite side of the room signs of
	heating on the bench and galvanised iron were visible. That is whee
	the other two girls were spad to be working. The boards lying on
	the rafters on which a number of small wooden and cardboard boxes
	had been deposited were displaced and the boxes had been scattered
	throughout the room. There were three holes in the floor at the
	east end towards the powder house but otherwise the floor was not
	damaged at that end . At the west end the floor was completely
	broken up except within the partition, the "sporting" room. The
	floor was covered with <u>debris</u> , cartridges, sporting and military,
	some exploded and some not, a large number of loose bullets, ammuni
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full.	ition b	oxes, sm	nall cardboard wooden boxes, copper caps and
large	mesh,	rames f	for holding cartridges, an instrument that ap-
peare	d to be	a hand	a capping machine, trays, wooden rammers for pu
pushi	ng wax	wads ir	ito cartridges, wax wads, grassboard discs, wads
for s	porting	cartri	idges of various kinds, a number of empty powder
barre	ls, A	large qu	uantity of shot was strewn about the floor and
bench	es .Imm	nediate	ly opposite the room was found a small box con-
taini	ng loos	se powde	er which I now produce. That is exactly as it
was f	ound.TI	ne powd	er is unexploded. It was very wet when I found it
That	was for	und out	side the room by constable Wardill and brought
to me	.I was	there:	at the time when he found it. It was found at the
south	-west	side of	the building a few yards from the building. Ev-
eryth	ing wa	s breke	a blackened in the room and there were distinct,
what	are ca	11ed, <b>p</b>	lume marks formed by uncomsumed powder along the
roof	and un	der the	benches and from the general effects I should
say t	that th	e damag	ge done was done by gunpowder explosion. I saw a
notio	ce boar	d in th	nat room. I had in unscrewed by constable "ardill
and 1	handed	to the	police. It was in No. 1 room about the centre of
the :	room. I	he part	tition next the factory had been completely blown
down	.On the	notice	e board, as far as I remember, it contained the
			ons(it wasquite decipherable)"Not more than one
truc	k of po	owdered	cases uncovered with wads to be in this room at
any	one tir	ne". Tha	at is the sense of it. I inspected seven magazines
In N	10. 2 t	here was	s new "R.F. G. 2" and sifted "R.F.G.2." powder ,the

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statenadd sworn before mbetteinning at the wast end. They are not all on that

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plan. No. 6 contained sifted ". R. F. G. 2(exhibit"a.l.") and siftings from "R. F. G. 2.": that is what passed the sieve. No. 7 contained sweepings from the floors. I examined the laboratory. It conta ned new blank, a small quantity of new "R. F. G.2.", about 151bs and a small bag, about 5 lbs. or 6 lbs. of sifted "R. F. G.2". I took samples of the sifted "R. F. G. 2" from the Nom 2 magazine ad from the No. 6.. I did nottake any from the laboratory. I made an examination of the sifted powder from the magazines. I found in that particles of wax, particles of grit and particles of iron mixed with the powder. I produce samples. I took about lalbs. This is a sample of grit taken from sifted powder in the factory magazine taken from 12 lbs. of powder ("E.1") This is a sample of particles or iron found in the same powder from sifted "R. F. G.2." from factory magazine ("F.1."). That is a sample of wax extracted from the same powder ("G.1.") . That is a sample of "R. F. G" new ("G-1) (exhibit "R.1.") and that is a sample of new blank (exhibit C.1) That is a sample of sifted powder taken from the magazine in the factory, and that is a sample (No. 15, exhibit "Z") of siftings. Thatis what passes through the sieve. I have examined that. It contains wax, grit, and iron. I collected 300 blank cartridges that did not explode out of the debris. I opened them up, extracted the powder and examined that. They were crimped. I found particles of wax, parof oron ticles, and particles of grit. The powder was very dusty (handing in sample) 14 grains of wax from 83 Martinia Hneri blank cartridges

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## CORONER'S INQUEST.

residing at residing and resided (particles of grit (exhibit "I.l.") in the early and particles of side (particles of sifting and residing at residing at residing at residing at residing and hat be an expect of side of sifting and resided with was an expert of the before a bifure residing at residing at residing at residing at residing and resided of side attribute and resided with was and resided with was an expert of residence of risk of course when they are uncovered than when they are covered. I should not say that blank cartridge paper pressed or turned in are resided attribute attribute attribute attribute the blank resided attribute attribute attribute attribute attribute resided attribute resided attribute resided attrib	This Deponent*	
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cases the paper is turned down in the powder room and in the partitioned off No. 1. and then taken to the machine, No. 1 to be pressed. In that case it is quite liable to spill grains of powder out of the case in handling. That board containing the notice that not more than one truck of powdered cases uncovered with wads to be at any one time in this room coupled with the regulations indicates to my mind that the room was a danger building, that the operations being carried on in the room were such as should be only carried on in a danger building. I have heard the evidence of what they have done in that room. The fact that the cartridges were brought into the partitioned part would not relieve that from the condition of a danger building. It would be considered as one room. The light partition does not decrease the risks attendant on and insep a rable from those operations. Therefore within my experience in a 'danger building the partitions are part of the building. Those par titions went only about 7 feet from the floor. Apart from the notice board in the room, having heard what the girls say they did in that room, I should certainly say that it is a danger building. The evidence was that the girls had drawn powder. I never heard that expression. I know the term "breaking u p cartridges" and that includes the drawing of powder as they called it. The powder is 100 loose powder when drawn from the cartridges and increased risk attaches to it. As it appears in the regulations of the factory they had a breaking up house. I did not inspect it because the key was

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lost and I did not feel justified in using any force. I simply left it. I was shown the smoke room called the breaking up house. I asked Captain Whitney where the breaking up operations were carried on: he told me in the smoke room and directed me to it and that is marked on the plan to the west of the main building. The room used for breaking up most decidedly should be treated as a danger place It is a most dangerous operation. In the debris of this room I found things that led me to believe it was a room used for breaking up cattridges. I found half stripped cartridges. The brass was still adhering to the base of the cartridge. I found some of those cartridges with the powder partly in them. The whole charge had not been removed. Those cartrideges suggested to me that breaking yp operations had been carried on in the building at some time or other prior to the accident. I examined the siftings from the factory magazine and found certain particles of iron(showing sample) I examined 12 lbs. to get that but did not extract the whole of the iron(exhibit "J.1.") From the examination I made of sifted powder from the magazine and from powder taken from the cartridges which remained and were not exploded I found the iron and grit and wax. In my opinion, the cartridges which I examined which were unexploded contained sifted powder. The peculiar danger from that arises from the possible presence of grit or iron or particles of cap com position. In the operation of breaking up part of the cap composition is liable to get in. The cap composition contains fulminate as

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one of its ingredients. The presence of the iron or grit would lower the igniting point of the powder therefore a reduced blow or reduced friction would be liable to explode the powder more easily than if it were absent. From the examination under a miscroscopemicroscope I found that those iron particles consisted to a great extent of pieces of wire. From that a drew the conclusion that it must have come from the wire sieve. There were sieves found in the No. 1 room. I believe there were sixteen. They appeared to me to have been used for breaking up operations. They are similar to siev es used for that purpose. The bullet is first extracted and the wad and then the powder is poured out through a sieve. The sieve is of large mesh which would retain the bullet and the wad and allow the powder to fall through. The portions of the sieves indicates that cartridges may have been broken up in that room. It suggests that. I heard the girls describe that they did open cartridges in that room. I only know the term "breaking up". I understand by that the taking/a cartridge to pieces and separating the different particles. There were cartridges found with powder in them that had been broken up. Several with the brass stripped down to the base and the powder was still adhering to the cartridge. It looked to me like unexploded powder. (samples handed in) After that cartridge had been broken up the powder remains until it is poured out. That powder has evidently been wetted. A lot of water was poured on and it was also raining. I heard one of the girls say here there was

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rna	no loose powder in the room. There was loose powder found imme-
	diately outside the room. I think it is quite possible consider-
	ing the very crowded state of that room and the fact that the girs
	were ev dently shifted about from one room to another frequently
	that there might have been loose powder in the room without their
	knowing it, without impugning the truth of their statement The
	floor was wood, the benches were of wood and both the floor and the
	benches were fastened with exposed iron nails. That was not right i
	in a danger building. In that building the girls were not obliged
	to wear specially prepared shoes. In a danger building the girls
	should be provided with magazine shoes, shoes without iron nails ad
	they should also be provided with special magazine clothing, that
	is clothing without pockets. They should change their clothes before
	they go into a danger building for those clothes before going in
	and they should submit to a periodical system of searching to pre-
	vent the intorduction of dangerous articles into the building. The
	truck that came into that room was connected with an iron frame
	work, a wooden platform fastened with iron nails exposed. The wheek
	were of iron. That is not a proper truck for a danger building. It
	is improper because it is introducing exposed iron into the build-
	ing and very probably grit. As to the pressing machine, I agree gen
	erally with the opinions which I have heard expressed by the exp-
	erts, Captain Harding and Mr. Rosier. The simple danger which I can
	see arises from the contact of two unyielding surfaces, the collar
	and the frame work, the head container and the guide. If there were Taken and Sworn before me theday
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powder on that guide I should think a blow would very likely cause an explosion. With powder that is-gritty-has grit and iron substances in it a sudden pressure and percussive force or friction would cause an explosion. A thousand cartridges would be an excessive number for a girl to have under the bench at a time. I should say the quantity which if it exploded would not do any serious damage, say equivalent to half a pound of powder, 50 cartridges. If there were was an accident to this machine with only 50 cartridges below it, and they all exploded the explosion would not be serious. I am spea king of the arrangement and the conditions under which it is there. I have heard the evidence and have formed an opinion as to what was the cause of this explosion. As to the cause, I have heard in the evidence that Miss Fitzpatrick stated before her death that she was stooping down to pick up a box when her attention was directed to an explosion in the neighbourhood of Miss Mc Leod's benh If that be so, it points to the initial explosion having actually occurred at this spot. Assuming it did so occur the further communication of fire to cartridges or explosive on the bench or under the bench or on the floor is quite possible conceivable. The galvanised iron at this spot under the bench showed signs of having been subjected to severe heat. The wood work under the bench was very badly charred. The large bin standing at right angles to the bench was scorched and from the powder marks I was enabled to trace a flash of flame from one bench in an upward direction to the board thin and sworth before and there on which a large number of cardboard and wood en boxes had beet stored. It is quite probable that those boxes of a very light inflammable nature were ignited and dispersed

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through the room. This would account for the appreciable space of time which is said to have been between the first report and the main explosion. The conditions under which this room appears to have been worked suggest to my mind several causes. To which particular gause the accident was due it is of course very difficult to say. The probable causes appear to me to be, first the defective condition of the machine: secondly the explosion of a cartridge in the machine: third, the absence of even the most elementary precautions to prevent the intorduction of grit or iron or other dangerous articles into the building: fourth, the wearing of shoes with iron nails by the employes in this building and the presence of iron exposed nails in the flooring and the benches. I think to each of those causes an equal degree of probability must be accorded. If sifted powder or powder extracted from slam-arm small arm ammunition was being used in this building, I think a greater degree of probability attaches to it as being the cause of the accident than to the other causes mentioned. Further, thestorage of those large quantities of boxes on the boards and rafters assisted very materially in extending the initial explosion through the room As far as my observation goes, this sifted powder that was being used in that room is the most probable cause of injury, being used in that machine and the presence of this powder would abnormally increase the ordinary risks which one expects even in a well regulated building. It has been suggested that the girl Mc Leod revers

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reversed a cartridge and put the cap against the piston. That is quite reasonable. If that was the case it was a risk that could have been foreseen and could have been provided against, and ordinary provisions taken for a risk of that sort are to subdivide the explosive so that the explosion is limited as far as nossible to that cartridge or to a very small quantity. If there were 1,000 or 1,500 blanks and that went off and fell down that would create a serious explosion no doubt. As to blank cartridges that have been covered with the paper and pressed down I have explained as to their possible explosion in a mass. I placed a number of those cartridges in a small barrel and placed a cartridge with a fuse in the powder into the body of the cartridges completely covering the cartridge containing the fuse with the other similar cartridges. I lit the fuse and the explosion was practically simultaneous-instan taneous... I made a second experiment. I placed a cartridge containing a fase on the top of the similar cartridges and ignited it and there were three distinct explosions and a very big mass of flame but in both cases the explosion of the one cartridge was communicated to the other cartridges. They were pressed cartridges. That does not render them safety cartridges. Those cartridges as a matter of prudence ought not to be in large masses in a room which is not a danger building. They should be treated as loose powder practically and their presence proclaims the room to be a danger build ing and necessary precautions should be taken in dealing with

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of		189 a	at		
58				>	
				Company	

matter

This Deponent*
VICTORIA, TO WIT.  on h oath saith, I am a
• Christian and residing at
matter in that room if the object is to prevent accident. I have
seen and read the regulations. This room, under their own regula-
tions, was n ver treated as a danger building and absolutely no
precautions as to that. No 12 of those Regulations for
The Colonial amunition Company" was not
complied with as far as I have beard in the evidence. I do not think that
cho 6 was sufficiently allended to . Washing
with water is absolutef necessary ai
a danger building. as to otumber 14
Taken and Sworn before me the day\
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Coroner

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