

OPERATIONS RECORD BOOK

DETAIL OF WORK CARRIED OUT

By No. 415 (R.C.A.F.) Squadron.

SECRET

R.A.F. Form 541.
PAGE No. 1.

11745-2511 WL 2529-254 700 210 EA 700
11745-2511 WL 4402-254 1200 210 EA 700

FOR THE MONTH OF JANUARY, 1945

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
27/1.45	Halifax NA600 'A'. Target: Ludwigshafen.	P. J. 37460 P/O C.A. Chartier. And Crew.		1506	2233	Bombing Load. 1 x 2000 lbs. H.C. (Nose Inst.). T: 1855.7 hrs. H: 18,000 ft. Visibility good. Transparent patch of cloud at ground level. Marking was good in a straight line with T.I.'s green undershooting the T.I.'s red. Bombing was accurate. One large explosion occurred about 1857 hours.	H: 18,000 ft. See Appendix 1.
27/1.45	Halifax NA610 'B'. Target: Ludwigshafen.	P. J. 27857 P/O G.N. Piper. And Crew.		1459	2217	Bombing Load. Same as 'A'. T: 1856.7 hrs. H: 18,000 ft. 4-40 thin layer of low cloud. Two sets of red T.I.'s seen together. Bombed centre of two sets. T.I.'s green seemed to be dropped short of T.I.'s red. Considerable amount of fires in target area, and after bombing noticed a large orange explosion followed with fire, believed from oil.	See Appendix 1.
27/1.45	Halifax NA31 'D'. Target: Ludwigshafen.	P. J. 2438 P/O W.E. Goodwin. And Crew.		1503	2230	Bombing Load. Same as 'A'. T: 1857.0 hrs. H: 18,000 ft. Visibility good. Low smoke haze. Markers appeared well concentrated. The concentration of fires appeared south of markers. One large red explosion seen at 1858 hrs.	See Appendix 1. v. y.
27/1.45	Halifax NZ416 'F'. Target: Ludwigshafen.	P. J. 12038 P/L A.E. Winstill. And Crew.		1501	2248	Bombing Load. Same as 'A'. T: 1855.4 hrs. H: 18,500 ft. Visibility good and clear. No fires seen in the target area. One large explosion and heavy billowing flame and smoke appeared for approx. 30 seconds. Little fire damage seemed done, as incendiaries in large numbers were seen burning harmlessly well apart from the explosion.	See Appendix 1.
27/1.45	Halifax NR156 'H'. Target: Ludwigshafen.	P. J. 22399 P/L A.S. Cruikshank. And Crew.		1504	2222	Bombing Load. Same as 'A'. T: 1855.9 hrs. H: 18,500 ft. Visibility good. No markers seen. One large explosion at 1856.5 hrs. Fires covered a large area along the river.	See Appendix 1.
27/1.45	Halifax NA124 'I'. Target: Ludwigshafen.	P. J. 20025 P/L G.A. Thompson. And Crew.		1500	2234	Bombing Load. Same as 'A'. T: 1858.8 hrs. H: 18,500 ft. Visibility good. Thin low cloud. Two sets of T.I.'s seen close together, as bombing was concentrated on them. One large explosion observed at 1857 hrs. which enveloped in huge pall of smoke. Numerous fires seen taking hold in area, mostly to south of target. A very good attack.	See Appendix 1.
27/1.45	Halifax NR223 'L'. Target: Ludwigshafen.	P. J. 28542 P/O S.H. McPadden. And Crew.		1502	2226	Bombing Load. Same as 'A'. T: 1854.3 hrs. H: 19,000 ft. Thin haze, and thin scattered low cloud. Several sets of T.I.'s red closely concentrated. On run up T.I.'s green were seen which burnt out before arriving over target. One large oil fire followed after a big explosion appeared in the centre of target area. Numerous other small fires seen around target. One stick of incendiaries seen dropped well short of target.	See Appendix 1.
27/1.45	Halifax NZ433 'M'. Target: Ludwigshafen.	P. J. 37121 P/O D.J. Stewart. And Crew.		1505	2208	Bombing Load. Same as 'A'. T: 1852.5 hrs. H: 18,300 ft. Picked out port group of T.I.'s green cascading at 1852.0 hrs. were moving northward at time. Some incendiaries were seen short, but majority seemed accurate. Some good fires seen.	See Appendix 1.

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
2/1. 1.45.	Halifax M2946 'Q'. Target: Ludwigshafen.	P. J.37482 P/O And Crew.	J. S. McGuire.	1509	2215	Bombing Load. Same as 'A'. T: 1857.0 hrs. H: 19,500 ft. Visibility good. Patches of cloud. Target well marked and bombing seemed accurate. Two large explosions occurred at 1851 hours and 1900 hours. Plak hole at root of stabilizer on port side, over target area.	See Appendix 1.
2/1. 1.45.	Halifax M2946 'Q'. Target: Ludwigshafen.	P. J.90221 P/O And Crew.	W. D. Leno.	1458	2153	Bombing Load. Same as 'A'. T: 1854.3 hrs. H: 19,500 ft. Visibility fair. Markers appeared scattered. One large explosion at about 1852 hours. Plenty of smoke covered the area. Bombing appeared fairly well concentrated.	See Appendix 1.
2/1. 1.45.	Halifax M2946 'Q'. Target: Ludwigshafen.	P. J.88230 P/O And Crew.	D. A. Donnelly.	1457	2231	Bombing Load. Same as 'A'. T: 1853.2 hrs. H: 19,500 ft. Visibility very good. All T.I.'s seemed to be closely concentrated and after bombing noticed T.I.'s to be placed on southern part of target. Two large fires seen, one on southern edge of target another on dock area. After leaving target one large explosion seen.	See Appendix 1.
2/1. 1.45.	Halifax M2946 'Q'. Target: Ludwigshafen.	P. J.26574 P/O And Crew.	L. E. Balcher.	1514	2225	Bombing Load. Same as 'A'. T: 1853.2 hrs. H: 19,500 ft. Visibility fair. Markers scattered with some under shooting reds. Bombing was also falling short. One large explosion occurred at 1856 hours.	See Appendix 1.
2/1. 1.45.	Halifax M2946 'Q'. Target: Ludwigshafen.	P. E.166405 P/S And Crew.	McDiarmid, A.P.	1510	2228	Bombing Load. Same as 'A'. T: 1853.2 hrs. H: 20,000 ft. Thin cloud mostly to the east of the target. Red T.I.'s seemed to be off to starboard of target, and identified target with the aid of T.I.'s green, which we bombed. Quite a few fires seen in target area. No explosions observed. Marking seemed scattered.	See Appendix 1.
2/1. 1.45.	Halifax M2692 'W'. Target: Ludwigshafen.	P. J.88849 P/O And Crew.	J. Hechter.	1513	2220	Bombing Load. Same as 'A'. T: 1852.9 hrs. H: 20,000 ft. Visibility poor, low smoke haze. Red markers were well concentrated. Fires covered a large area. Bombing appeared good.	See Appendix 1.
2/1. 1.45.	Halifax M2676 'Y'. Target: Ludwigshafen.	P. J.13316 P/L And Crew.	J. E. McAllister. P/O	1512	2205	Bombing Load. Same as 'A'. T: 1853.2 hrs. H: 20,000 ft. Visibility fairly clear, small patch of low cloud. Green T.I.'s were seen on run up, but burnt out before reaching target. A large fire was seen alongside set of red T.I.'s. No bombs hit. One explosion seen just before bombing, and another exceptional large explosion seen approx. 3 minutes after bombing. Good marking and good concentrating of aircraft over target.	See Appendix 1.
2/1. 1.45.	Halifax M2661 'Z'. Target: Ludwigshafen.	P. J.88172 P/O And Crew.	S. W. Moore.	1511	2158	Bombing Load. Same as 'A'. T: 1853.0 hrs. H: 20,000 ft. Marking was considered very good. One large explosion at 1852 hours and another large one at 1857 hours. The southern area was covered with fires.	See Appendix 1.

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OPERATIONS RECORD BOOK

APPENDIX

R.A.F.
FORM 941.

DETAIL OF WORK CARRIED OUT

By No. 415 (R.C.A.F.) Squadron.

SECRET

PAGE No. 2

*1234-2517 WL 8792-0135 724 1064 T.S. 800

FOR THE MONTH OF JANUARY, 1945

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
3/1.45	Halifax M610 'B'. Target: Hanover.	P. J. 27957 And Crew.	P/O G.L. Piper.	1630	2229	Bombing Load. 4x 500 lbs. G.P. (T.D. .025) 6 x 500 lbs. AN/ 64 (T.D. .025). T: 1933.4 hrs. H: 19,000 ft. Bombed red glow on cloud as instructed by Master Bomber. A large bright glow could be seen. No results seen due to cloud.	See Appendix 2.
3/1.45	Halifax M181 'D'. Target: Hanover.	P. J. 24438 And Crew.	P/O W.E. Goodwin.	1633	2236	Bombing Load. 4 x 500 lbs. G.P. (T.D. .025) 6 x 500 lbs. M.C. (T.D. .025) 6 x 500 lbs. AN/ 64 (T.D. .025). T: 1930.2 hrs. H: 19,000 ft. 10/10 cloud. Sky Markers were quite plentiful, but spasmodic. One lot would burn out before another set was released. Master Bomber heard. Some fires seen north of A/P. Fighter flares marked route from coast to target and out as far as Zuyder Zee.	See Appendix 2.
3/1.45	Halifax M2907 'P'. Target: Hanover.	P. J. 12038 And Crew.	P/L A.E. Wrennill.	1628	2237	Bombing Load. Same as 'D'. T: 1936.2 hrs. H: 18,500 ft. 10/10 cloud. Tops 5000 ft. Three sets of sky markers were put out by flak before we bombed. There were numerous fires scattered. Glow on cloud could be seen for half an hour after leaving target. Master Bomber was not heard.	See Appendix 2.
3/1.45	Halifax M2949 'B'. Target: Hanover.	P. J. 90221 And Crew.	P/O W.D. Lane.	1635	2207	Bombing Load. Same as 'D'. T: 1930.9 hrs. H: 19,000 ft. 10/10 cloud. tops 10/12000 ft. Visibility hazy. Only one sky marker seen on run up. This burned out at moment of bombing. A set of F.I.'s red and one of green were seen while on run up. No bombing results observed. Fighter flares marked route from coast to target and as far as Zuyder Zee on return.	See Appendix 2.
3/1.45	Halifax M124 'T'. Target: Hanover.	P. J. 20025 And Crew.	P/L C.A. Thompson.	1629	2203	Bombing Load. Same as 'B'. T: 1928.0 hrs. H: 18,500 ft. 10/10 cloud. Tops approx 8000 ft. Visibility above cloud good. Three sky markers were seen before bombing on run up. Two burnt out before target was reached. No results of bombing could be observed due to cloud. Hydraulics w/s on return trip.	See Appendix 2.
3/1.45	Halifax M2249 'J'. Target: Hanover.	P. J. 57460 And Crew.	P/O C.A. Chartier.	1636	2208	Bombing Load. Same as 'B'. T: 1928.0 hrs. H: 18,500 ft. 10/10 cloud. Three separate sky markers, flares red with green stars seen before reaching target. During bombing run two burnt out. We managed to bomb centre sky markers which were still alight. F.I.'s red and green were seen departing long before reaching target, but again these were not seen while on bombing run. Glows could be seen through clouds. No further results observed. Master Bomber heard instructing to bomb on sky markers.	See Appendix 2.
3/1.45	Halifax M2493 'M'. Target: Hanover.	P. J. 22339 And Crew.	P/L A.S. Crutkshank.	1631	2230	Bombing Load. Same as 'D'. T: 1928.1 hrs. H: 18,000 ft. Three sky markers seen on run up, but two burnt out before able to bomb. Master Bomber heard. Glow of fires could be seen through cloud. Aircraft over target well concentrated.	See Appendix 2.

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
5/6 1.45	Halifax M2946 'O'. Target: Hanover.	P. J. 37482 P/O J. S. Modura. And Crew.		1624	2223	Bombing Load. Same as 'B'. T: 1923.8 hrs. H: 18,000 ft. 10/10 thin cloud, thick in patches. At approx. 1925.0 hrs. large number of red flares with green stars, but they died out at bombing time. Flares bombed was in same area as previous ones though slightly north. No other results were observed. Unusual light activity on track in over-ensy coast with 3/L waving towards track and unnumberable fighter flares from this point till recrossing coast, homeward.	See Appendix 2.
5/6 1.45	Halifax M2956 'P'. Target: Hanover.	P. J. 26674 P/O L. R. Balcher. And Crew.		1626	2217	Bombing Load. Same as 'B'. T: 1929.2 hrs. H: 18,000 ft. 10/10 cloud tops 8,000 ft. Three sky markers had gone out approx. a mile to port of one which cascaded at 1926.0 hrs. Master Bomber heard instructing to bomb sky markers. A large glow was reflected on clouds but nothing further seen.	See Appendix 2.
5/6 1.45	Halifax PW74 'R'. Target: Hanover.	P. R166405 P/S McDiarmid, A.P. And Crew.		1634	2209	Bombing Load. Same as 'B'. T: 1927.7 hrs. H: 17,500 ft. 10/10 cloud tops 7,000 ft. Master Bomber's instructions were to bomb on sky markers. Several glows on cloud would indicate numerous fires. No further results seen.	See Appendix 2.
5/6 1.45	Halifax LW532 'S'. Target: Hanover.	P. J. 88849 P/O J. Hechter. And Crew.		1622	2232	Bombing Load. Same as 'B'. T: 1932.0 hrs. H: 17,500 ft. Master Bomber was not heard in time for bombing. Some sky markers red with green stars. Several concentrated bomb bursts could be seen which would indicate a good concentration of bombings.	See Appendix 2.
5/6 1.45	Halifax NR172 'V'. Target: Hanover.	P. J. 28606 P/O D. H. Palouner. And Crew.		1625	2211	Bombing Load. Same as 'B'. T: 1926.6 hrs. H: 17,500 ft. 3/10 cloud low, tops approx. 6,000 ft. On run up T.I.'s red and green were seen but we were only able to see T.I.'s green on bombing run which was bombed. Several sky markers red with green stars were seen over target. Master Bomber not heard. Cloud was lit up although fires could not be seen. W2S not working well, gas jammed from 0600z.	See Appendix 2.
5/6 1.45	Halifax NR122 'X'. Target: Hanover.	P. J. 37121 P/O D. J. Stewart. And Crew.		1620	2204	Bombing Load. Same as 'B'. T: 1926.8 hrs. H: 17,700 ft. A few T.I.'s red were seen cascading and left a faint red glow on cloud. The target was well lit up by fires concentration of which appeared to be in the north end of the town. Master Bomber not heard.	See Appendix 2.
5/6 1.45	Halifax M2176 'T'. Target: Hanover.	P. J. 28542 P/O S. H. McPadden. And Crew.		1623	---	Bombing Load. 12 x 500 lbs. G.P. (T.D. .025) 4 x 500 lbs. ANW 64 (T.D. .025). This aircraft took off at 1623 hrs. and had not been heard of since.	See Appendix 2.

Continued on Page 3.

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OPERATIONS RECORD BOOK

APPENDIX

L.A.F.
FORM 541.

DETAIL OF WORK CARRIED OUT

By No. 415 (R.C.A.F.) Squadron.

SECRET

PAGE No. 3

13341-2811) W. 4721-2156 738 10/41 T.S. 800

FOR THE MONTH OF January, 1944.

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES																								
				UP	DOWN																										
5/4 1.45	Halifax M2416 *Y* Target: Hanover.	Continued from Page 2.				<table border="1"> <thead> <tr> <th>Sorties.</th> <th>Points.</th> <th>Op. Hours.</th> </tr> </thead> <tbody> <tr><td>16</td><td>32</td><td>101:45</td></tr> <tr><td>14</td><td>75</td><td>92:15</td></tr> <tr><td>11</td><td>43</td><td>74:30</td></tr> <tr><td>14</td><td>55</td><td>92:45</td></tr> <tr><td>17</td><td>66</td><td>118:25</td></tr> <tr><td>17</td><td>66</td><td>104:20</td></tr> <tr><td>13</td><td>55</td><td>92:15</td></tr> </tbody> </table>	Sorties.	Points.	Op. Hours.	16	32	101:45	14	75	92:15	11	43	74:30	14	55	92:45	17	66	118:25	17	66	104:20	13	55	92:15	
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13	55	92:15																													
5/4 1.45	Halifax M2861 *Z* Target: Hanover.	P. J. 38172 P/O	S.W. Moores.	1621	2207	Bombing Load. Same as 'B'. T: 1927.8 hrs. H: 17,300 ft. 10/10 cloud tops 8000 ft. After bombs away on sky marking, green T.I.'s were seen on ground possibly a mile to port of flares. Bombed also a few T.I.'s green possibly two to three miles ahead. No other results were observed. Master bomber was clearly heard.	See Appendix 2.																								
6/4 1.45	Halifax M4610 *B* Target: Hanau.	P. J. 9463 P/L	W.P. Borrett.	1530	2248	Bombing Load. 1 x 2000 lbs. H.C. (N.I.) 1 x 90 x 4 lbs. Incd. (106 'X' type) 11 x GP No. 14 G/10. T: 1910.0 hrs. H: 19,000 ft. About 10 mins. from target saw red T.I.'s going down. Then saw two groups of sky markers which extinguished before arrival on target. Bombed on red glow on cloud apparently made from red T.I.'s. All other ground detail obscured by cloud. Target appeared to be insufficiently marked by sky markers.	See Appendix 3.																								
6/4 1.45	Halifax M2922 *O* Target: Hanau.	P. J. 20025 P/L	G.A. Thompson.	1529	2232	Bombing Load. 1 x 2000 lbs. H.C. (N.I.) 12 x G.P. No. 14 G/10. T: 1908.2 hrs. H: 18,000 ft. On run up four concentrated sky markers were seen but just before own bombs released three burnt out. Glows could be seen below cloud, no further results observed. Several aircraft seen flying above 10,000 ft. over France.	See Appendix 3.																								
6/4 1.45	Halifax M4181 *D* Target: Hanau.	P. J. 21438 P/O	W.E.C. Goodwin.	1521	2228	Bombing Load. 1 x 2000 lbs. H.C. (N.I.) 12 x 90 x 4 lbs. Incd. (106 'X' type) 7: 1907.3 hrs. H: 18,000 ft. Saw two clusters of sky markers on run up to target. Also saw yellow glow on clouds beneath markers. Markers extinguished about 40 secs. before arrival over target as bombed on glow on clouds. Saw several bomb bursts in target area. Glow appeared to be from incendiary fires. Target was not satisfactorily marked by sky markers.	See Appendix 3.																								
6/4 1.45	Halifax M2416 *B* Target: Hanau.	P. J. 29606 P/O	D.W. Falconer.	1549	2244	Bombing Load. 1 x 2000 lbs. H.C. (N.I.) 11 x GP No. 14 G/10. T: 1907.3 hrs. H: 18,000 ft. Saw several groups of sky markers on run up. Those in centre extinguished before arrival at target leaving one group on either side and glow from green T.I.'s seen on cloud in centre. Numerous bomb bursts seen in target area. Intense white glow with scattered patches of red glow developed on clouds and was seen as we were leaving target.	See Appendix 3.																								

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES																								
				UP	DOWN																										
6/7.1.45	Halifax MK297 *P* Target: Hanau.	P. J. 2737 P/O And Crew	C.M. Piper.	1907	2240	Bombing Load. Same as *D*. T: 1907.7 hrs. H: 13,500 ft. 10/10 cloud tops 3000ft. Visibility good. Sky Markers seemed to be rather scattered but Bombing appeared fairly well concentrated. Target area totally obscured by cloud.	See Appendix 3.																								
6/7.1.45	Halifax MK249 *Q* Target: Hanau.	P. J. 2239 P/O And Crew	A.S. Cruikshank	1544	2341	Bombing Load. 1 x 2000 lbs. H.C. (N.I.) 7 x CP No. 14 06/10. T: 1907.6 hrs. H: 13,500 ft. 10/10 cloud. Sky Markers red with green stars and T.I.R. burned out before reaching release point. Fires seemed well concentrated. Sky Markers were released again about 2 minutes after bombing. No fighter flares marked route.	See Appendix 3.																								
6/7.1.45	Halifax MK249 *J* Target: Hanau.	P. J. 3746 P/O And Crew	C.A. Chartier.	1557	2239	Bombing Load. 1 x 2000 lbs. H.C. (N.I.) 6 x CP No. 14 06/10. T: 1906.9 hrs. H: 13,500 ft. 10/10 cloud. Lots of flares were seen target on run up but most had died at bombing time. Continuous white glow only seen under glow.	See Appendix 3.																								
6/7.1.45	Halifax MK249 *S* Target: Hanau.	P. J. 3777 P/O And Crew	B.C.S. Wilkinson	1540	2349	Bombing Load. Same as *B*. T: 1907.3 hrs. H: 19,000 ft. 10/10 cloud. Visually bombed on centre of sky markers red with green stars. Fires sky markers closely concentrated. No results observed. Bombight w/s and had to bomb visually. Inter-com noisy and w/s at times through trip.	See Appendix 3.																								
6/7.1.45	Halifax MK243 *M* Target: Hanau.	P. J. 18136 P/O And Crew	M.R. Brown	1534	2242	Bombing Load. Same as *D*. T: 1906.8 hrs. H: 19,000 ft. 10/10 cloud tops 13,000 ft. No ground markers seen. The whole area was lit up. Bombing sight appears to be well concentrated. Target obscured by cloud.	See Appendix 3.																								
6/7.1.45	Halifax MK246 *P* Target: HANAU.	P. J. 26674 P/O REV. J. 38776 P/O A/B. J. 28301 P/O W/P. J. 28516 P/O WV/AG. J. 87437 P/O P/AG. R196672 P/S P/W. 1994495 SGT	L.R. Balcher. E.P. BRADSHAW. M. Strobart E.C. Irvine. S.W. Elgin (Second tour). Butler, N.A. Lawson, L.D.A.	1542		<table border="1"> <thead> <tr> <th>Points</th> <th>Time</th> <th>On Hours</th> </tr> </thead> <tbody> <tr> <td>32</td> <td>13</td> <td>31:46</td> </tr> <tr> <td>48</td> <td>12</td> <td>75:46</td> </tr> <tr> <td>49</td> <td>12</td> <td>72:46</td> </tr> <tr> <td>48</td> <td>12</td> <td>71:46</td> </tr> <tr> <td>9</td> <td>3</td> <td>33:36</td> </tr> <tr> <td>52</td> <td>13</td> <td>82:46</td> </tr> <tr> <td>32</td> <td>8</td> <td>48:46</td> </tr> </tbody> </table> <p>Bombing Load. 1 x 2000 lbs. H.C. (N.I.) 10 x 90 x 4 lbs. Inc. (40% x type) 2 x CP. No. 14 06/10.</p>	Points	Time	On Hours	32	13	31:46	48	12	75:46	49	12	72:46	48	12	71:46	9	3	33:36	52	13	82:46	32	8	48:46	See Appendix 3.
Points	Time	On Hours																													
32	13	31:46																													
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48	12	71:46																													
9	3	33:36																													
52	13	82:46																													
32	8	48:46																													
6/7.1.45	Halifax MK252 *S* Target: Hanau.	P. J. 37433 P/O And Crew	A.S. McSquire	1605	2151	Bombing Load. Same as *C*. T: 1910.5 hrs. H: 19,000 ft. 10/10 cloud. Flares were in a good concentration and well placed in relation to T.I.R. Bombing seemed to be good and glow of a large area of fire could be seen through cloud. Starboard engine w/s. Interrogated at Downham Market where aircraft landed due to engine trouble.	See Appendix 3.																								

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OPERATIONS RECORD BOOK

APPENDIX

A.F.
FORM 541

DETAIL OF WORK CARRIED OUT

By No. 415 (R.C.A.F.) Squadron

SECRET

PAGE No. 4

15311-2211 Wt. 272-110 224 7064 U.S. 880

FOR THE MONTH OF JANUARY, 1945.

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
6/11/45	Halifax NA611 *T* Target: Hanau	P. J. 90221 P/O W.D. Lane And Crew		1935	2216	Bombing Load. Same as *D*. T: 1906.3 hrs. H: 19,300 ft. 10/10 cloud. Good concentration of sky markers seen on run up. These burnt out with exception of one. At time of bombing only one was visible. Yellow glow on clouds over target area. No other detail seen. At 9043N - 0849W - 1907.5 hours, warcrow exploded in close proximity to aircraft. Saw some sky markers in Cologne area.	See Appendix 3 + 9.
6/11/45	Halifax NR172 *V* Target: Hanau	P. R166405 P/S McMarid, A.P. And Crew		1601	2225	Bombing Load. Same as *G*. T: 1907.4 hrs. H: 20,000 ft. 10/10 cloud. Saw two groups of sky markers on run up to target. One of these extinguished before arrival at target, so aimed on remaining group. Large white glow on cloud in locality of target. Number of flashes from bomb bursts were seen in target area.	See Appendix 3.
6/11/45	Halifax NR122 *X* Target: Hanau	P. J. 57121 P/O D.J. Stewart And Crew		1523	2236	Bombing Load. Same as *G*. T: 1907.8 hrs. H: 19,900 ft. 10/10 cloud, tops 67,000 ft. At bombing time the flares went out and aimed at base of smoke left. At 1907.5 hrs. another group of flares went down 30 degrees port approx. a mile distant. Flares seemed to be burning, as a steady glow in target area lit up cloud. Timing of flares was not good, there being no marking at times over target. At 9039N - 0849W, 1947.0 hrs. 19,300 ft. 15 aircraft were seen flying at 112,000 ft.	See Appendix 3.
6/11/45	Halifax M2361 *Z* Target: Hanau	P. J. 33172 P/O S.W. Mooers And Crew		1536	2229	Bombing Load. Same as *G*. T: 1912.2 hrs. H: 20,000 ft. 10/10 cloud, tops 8,000 ft. Sky markers burnt out before able to bomb, so bombed glow below, estimated in same position as sky markers. Outside of glow through cloud, no other results observed.	See Appendix 3.
13/11/45	Halifax M2922 *C* Target: Saarbrücken	P. J. 33349 P/O J. Hechtar And Crew		1530	2223	Bombing Load. 2 x 500 lbs. G.P. (T.N. .025) 6 x 500 lbs. AMI 64 (T.D. .025) 8 x 250 lbs. G.P. T.I. No cloud alight base. T: 1915.0 hrs. H: 19,000 ft. Markers were in a nice tight cluster. Bombing accurate. No fires or large explosions.	See Appendix 3.
13/11/45	Halifax M1381 *D* Target: Saarbrücken	P. J. 20559 P/L L.R. Mitchell And Crew		1546	2201	Bombing Load. Same as *G*. T: 1915.8 hrs. H: 19,000 ft. Visibility hazy. T.I.'s red were well concentrated and appeared well placed. Some bomb bursts were seen short of the markers. One large explosion at 1918 hours.	See Appendix 4.
13/11/45	Halifax M1416 *W* Target: Saarbrücken	P. J. 28606 P/O D.W. Falconer And Crew		1526	2150	Bombing Load. Same as *G*. T: 1924.0 hrs. H: 14,500 ft. Clear visibility. Saw T.I.'s green. Accurate markings. No results of bombing observed. Hydraulics w/s after take-off. After take-off hydraulics w/s and undercarriage could not be retracted. Mission completed but due to undercarriage not lifted, unable to bomb from higher altitude. On return landed Manston due to shortage of petrol.	See Appendix 4.

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
13/11/45	Halifax M2949 'G' Target: Saarbrücken	P. J. 2939 P/L And Crew	P.C. Moore	1518	2249	Bombing Load. 1 x 500 lbs. M.G. (T.D. 025) 3 x 500 lbs. (T.D. 025) 4 x 500 lbs. AM 64 (T.D. 025) 8 x 250 lbs. (M.E. 8.1) T: 1915.9 hrs. H: 18,500 ft. Patchy thin low cloud or ground haze. T.I.'s all mixed and numerous. Accurately marking target. Bombing appeared to be concentrated in marked areas, as bomb bursts could be seen amongst T.I.'s.	See Appendix 4.
13/11/45	Halifax M2249 'J' Target: Saarbrücken	P. J. 37460 P/L And Crew	G.A. Chartak	1511	2224	Bombing Load. Same as 'G'. T: 1915.2 hrs. H: 18,000 ft. Low thin haze. Centre of T.I.'s Fed and Green. All T.I.'s were mixed and closely concentrated. Markers appeared very accurate. Bombing appeared very accurate.	See Appendix 4.
13/11/45	Halifax M2253 'L' Target: Saarbrücken	P. J. 26751 P/L And Crew	J.H. Moquiston	1517	2206	Bombing Load. T: 1915.6 hrs. H: 18,000 ft. Same as 'G'. Low thin fog. Numerous T.I.'s red and green seen. Very closely concentrated. Target could vaguely be discerned visually. Bombing seems to be very well concentrated in marked area. P.P.P. marking very good and accurate, which corresponded with gee fix.	See Appendix 4.
13/11/45	Halifax M2483 'M' Target: Saarbrücken	P. J. 37482 P/O And Crew	J.S. McIndra	1532	2216	Bombing Load. 8 x 500 lbs. G.P. (T.D. 025) 8 x 250 lbs. (G.P. T.I.) T: 1919.1 hrs. H: 19,500 ft. 2/10th cloud. Marking was very good. Bombing appeared well concentrated in marked areas.	See Appendix 4.
13/11/45	Halifax M222 'N' Target: Saarbrücken	P. J. 36428 P/O And Crew	A.E. Galley	1533	2257	Bombing Load. Same as 'G'. T: 1919.3 hrs. H: 18,000 ft. Markers well concentrated and bombing mainly accurate with some undershooting.	See Appendix 4.
13/11/45	Halifax M2346 'O' Target: Saarbrücken	P. R166405 P/O And Crew	McDiarmid, A.P.	1530	2235	Bombing Load. Same as 'G'. T: 1915.3 hrs. H: 18,500 ft. Bombed Centre of red T.I.'s. Markers were well placed and well concentrated. Too early for any results.	See Appendix 4.
13/11/45	Halifax PNT74 'R' Target: Saarbrücken	P. J. 9468 P/L And Crew	W.P. Borrett	1519	2316	Bombing Load. Same as 'G'. T: 1919.5 hrs. H: 17,500 ft. Visibility clear. Bombed centre of red T.I.'s. Markers were well placed and well concentrated. No results seen.	See Appendix 4.
13/11/45	Halifax M611 'T' Target: Saarbrücken	P. J. 25339 P/O And Crew	E.C.S. Wilkinson	1512	2227	Bombing Load. Same as 'G'. T: 1918.9 hrs. H: 17,500 ft. Visibility, low medium haze. On run up saw both red and green T.I.'s go down, they were indistinguishable. Saw a considerable number of bombs exploding in area marked by T.I.'s some bombs overshoot.	See Appendix 4.
13/11/45	Halifax M172 'V' Target: Saarbrücken	P. R116832 P/O And Crew	L.A. Russell	1521	2253	Bombing Load. Same as 'G'. T: 1923.0 hrs. H: 17,000 ft. Visibility clear. The T.I.'s red went out before bombing so bombed on the T.I.'s green. Bombing appeared fairly well concentrated with some over shooting.	See Appendix 4.

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OPERATIONS RECORD BOOK

APPENDIX

S.A.F.
FORM 541.

DETAIL OF WORK CARRIED OUT

By No. 415 (R.C.A.F.) Squadron

SECRET

Page No. 5

7335-9313 Wt. 2870-2156 75W 10/44 T.S. 800

FOR THE MONTH OF January, 1945.

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
13/Jan 1.45	Halifax NR122 'X' Target: Saarbrücken	P. J. 57121 E/O And Crew	D. J. Stewart	1509	2223	Bombing Load. Same as 'C'. T: 1918.5 hrs. H: 17,300 ft. Visibility fair. Markers were all in one group. Bombing appeared concentrated in the marked area. No large fires or explosions seen. Target seemed covered with smoke.	See Appendix 4.
13/Jan 1.45	Halifax M2476 'Y' Target: Saarbrücken	P. R122337 W/O And Crew	McKenzie, J.S.	1555	2250	Bombing Load. Same as 'G'. T: 1919.0 hrs. H: 14,000 ft. Visibility slight low haze. Saw red and green T.I.'s going down on target during run-up, and on arrival over target found good concentration of red T.I.'s with green T.I.'s in centre. Saw number of bomb bursts well concentrated in T.I.'s. Port Inner motor went w/s on outward trip, necessitating feathering.	See Appendix 4.
13/Jan 1.45	Halifax M2361 'Z' Target: Saarbrücken	P. J. 33172 E/O And Crew	S.W. Moore	1515	2217	Bombing Load. Same as 'G'. T: 1918.0 hrs. H: 17,000 ft. Visibility fair. Markers were placed right on Marshalling yard and bombing at time was accurate and covering whole yard.	See Appendix 4.
14/Jan 1.45	Halifax NA600 'A' Target: Grovenbroich	P. J. 57460 E/L And Crew	C.A. Chartier	1615	2217	Bombing Load. 8 x 500 lbs. G.P. (T.D. .025) 8 x 250 lbs. G.P. (Tail Inst.) T: 1940.2 hrs. H: 19,000 ft. Heading: 053E. 158 m.p.h. Visibility, No cloud, some low haze. T.I.'s were plentiful and well concentrated on run-up, but only one set was still burning at time of bombing. Bombing seemed good with slight tendency to undershoot.	See Appendix 5.
14/Jan 1.45	Halifax NA610 'B' Target: Grovenbroich	P. R122337 W/O And Crew	McKenzie, J.S.	1543	2224	Bombing Load. 4 x 500 lbs. S.A.F. ANM 64 (T.D. .025) 3 x 500 lbs. G.P. (T.D. .025) 1 x 500 lbs. M.G. (T.D. .025) 8 x 250 lbs. G.P. (Tail Inst.) T: 1936.3 hrs. H: 18,000 ft. Heading: 049E. 155 m.p.h. First T.I.'s red, some off to starboard, but the second set was right on Marshalling yard, and the green T.I.'s were right on the second set of T.I.'s red. Two sticks of bombs were seen directly on T.I.'s red.	See Appendix 5.
14/Jan 1.45	Halifax NA181 'D' Target: Grovenbroich	P. J. 20559 E/L And Crew	M.R. Mitchell	1617	2207	Bombing Load. 5 x 500 lbs. S.A.F. ANM 64 (T.D. .025) 2 x 500 lbs. G.P. (T.D. .025) 1 x 500 lbs. M.C. L.D. (37 Plat.) 8 x 250 lbs. G.P. (Tail Inst.) T: 1935.0 hrs. H: 18,000 ft. Heading: 052E. 155 m.p.h. T.I.'s red were in a straight line. T.I.'s green cascaded just as bombed. Bombing seemed to be very accurate on T.I.'s. Yellow ground projected flares seen on homeward route near Brussels.	See Appendix 5.
14/Jan 1.45	Halifax M2301 'E' Target: Grovenbroich	P. J. 36428 E/O And Crew	A.E. Galley	1614	2232	Bombing Load. 6 x 500 lbs. S.A.F. ANM 64 (T.D. .025) 2 x 500 lbs. G.P. (T.D. .025) 8 x 250 lbs. G.P. (Tail Inst.) T: 1937.2 hrs. H: 18,000 ft. Heading: 037E. 163 m.p.h. Good concentration of T.I.'s red and green. Few bombs bursting in vicinity of T.I.'s. Some smoke which partially obscured T.I.'s.	See Appendix 5.

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
14/11.45	Halifax M2949 'G' Target: Grewenbroich	P. J. 2939	F/L T.C. Moore And Crew	1530	2216	Bombing Load. 7 x 500 lbs. G.P. (T.D. .025) 1 x 500 lbs. M.C. L.D. (37 Pist.) 8 x 250 lbs. G.P. (Tail Inst.) T: 1933.5 hrs. H: 17,000 ft. Heading: 032T. 153 m.p.h. Bombed center of T.I.'s rad. Red markers appeared scattered. Bomb bursts could be seen all in the marked area.	See Appendix 5
14/11.45	Halifax M1156 'H' Target: Grewenbroich	P. J. 39303	F/O G.A. Hyland And Crew	1531	2212	Bombing Load. 7 x 500 lbs. G.P. (T.D. .025) 1 x 500 lbs. M.C. L.D. (37 Pist.) 8 x 250 lbs. G.P. (Tail Inst.) T: 1935.0 hrs. H: 17,000 ft. Heading: 049T. 160 m.p.h. T.I.'s were well grouped in an oval. No greens were down until after bombing. No results seen except on run out of target. Some sticks fell starboard of T.I.'s.	See Appendix 5
14/11.45	Halifax M1124 'I' Target: Grewenbroich	P. J. 11816	F/L J.E. Northrup And Crew	1616	2223	Bombing Load. 2 x 500 lbs. S.A.P. ANM 64 (T.D. .025) 6 x 500 lbs. G.P. (T.D. .025) 8 x 250 lbs. G.P. (Tail Inst.) T: 1935.8 hrs. H: 17,000 ft. Heading: 050T. 160 m.p.h. Markers were all in one cluster. Bombing at time was accurate. Fighter flares, some of which were shot up from ground marked leg into and out of target.	See Appendix 5
14/11.45	Halifax M2463 'M' Target: Grewenbroich	P. J. 25224	F/O E.C.S. Wilkinson And Crew	1549	2223	Bombing Load. 6 x 500 lbs. G.P. (T.D. .025) 1 x 500 lbs. M.C. L.D. (37 Pist.) 4 x 500 lbs. S.A.P. ANM 58 (T.D. .025) 8 x 250 lbs. G.P. (Tail Inst.) T: 1935.3 hrs. H: 19,000 ft. Heading: 060T. 157 m.p.h. Visibility slight haze. Red and green T.I.'s intermingled in long line. Saw some bombs exploding in area of T.I.'s.	See Appendix 5
14/11.45	Halifax M1202 'N' Target: Grewenbroich	P. R116832	F/O Russell, L.A. And Crew	1547	2211	Bombing Load. 6 x 500 lbs. S.A.P. ANM 64 (T.D. .025) 2 x 500 lbs. G.P. (T.D. .025) 8 x 250 lbs. G.P. (Tail Inst.) T: 1935.7 hrs. H: 19,000 ft. Heading: 052T. 152 m.p.h. T.I.'s red were in one long line. These were not spread out. Most of bombing was nicely concentrated on markers. Three fighter flares on port side coming out of target.	See Appendix 5
14/11.45	Halifax M2946 'O' Target: Grewenbroich	P. J. 37482	F/O J.S. McQuira And Crew	1611	2200	Bombing Load. 1 x 500 lbs. G.P. (T.D. .025) 6 x 500 lbs. M.C. (T.D. .025) 1 x 500 lbs. M.C. (L.D. 37 Pist.) T: 1936.0 hrs. H: 17,500 ft. Heading: 051T. 165 m.p.h. Marking was very good at the beginning. Bombing appeared well placed except for a few undershoots. Several aircraft seen with their lights on about 60 miles inland on way to target.	See Appendix 5
14/11.45	Halifax M1174 'R' Target: Grewenbroich	P. J. 9463	F/L J.F. Borrett And Crew	1532	2206	Bombing Load. 6 x 500 lbs. G.P. (T.D. .025) 1 x 500 lbs. M.C. (T.D. .025) 1 x 500 lbs. M.C. (L.D. 37 Pist.) 8 x 250 lbs. G.P. (Tail Inst.) T: 1935.6 hrs. H: 17,500 ft. Heading: 054T. 160 m.p.h. Markers were spread out over quite a wide line. No bombing results observed. No ground detail could be seen. Bomb sight was had to use emergency computer.	See Appendix 5

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APPENDIX

A.F. FORM 541

DETAIL OF WORK CARRIED OUT

By No. 415 (B.C.A.F.) Squadron

SECRET

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13303-2511) Wt. 2820-1150 734 1014a T.S. 800

FOR THE MONTH OF January, 1943

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
14/15.1.43	Halifax NR611 'P' Target: Grovenbroich	P. R196127 P/S And Crew	Sirtonaki, E.P.			Bombing Load. Same as 'P'. This aircraft crashed and burnt late off, at 1933 hours. The aircraft was completely written off. The Pilot P/S Sirtonaki received 2nd degree burns to his forehead, and 2nd degree burns to 4th and 5th digits of his right hand. The navigator P/S Campbell received 1st and 2nd degree burns to his hands and face. The Air Bomber P/O Abek was uninjured. The Wireless Operator P/S Young sustained his left shoulder. The MU/AG P/S Egan received contusion mid right thigh. The MU/AG P/S Gates was uninjured. The Flight Engineer Sgt. Brochton received abrasion left buttock, and the W/AG Sgt. Dekur received abrasion right knee. None of the crew was seriously injured.	See Appendix 5
14/15.1.43	Halifax NR172 'Y' Target: Grovenbroich	P. J.83472 P/O And Crew	S.W. Moore	1613	2139	Bombing Load. 1 x 500 lbs. S.A.P. ARM 64 (T.D. .025) 6 x 500 lbs. G.P. (T.D. .025) 1 x 500 lbs. M.C. (L.D. 37 Inst.) 8 x 250 lbs. G.P. (Tail Inst.) T: 1933.8 hrs. H: 18,500 ft. Heading: 060°. 160 m.p.h. Visibility clear. Saw good concentration of T.I.'s. Saw some bombs exploding in P.I.'s.	See Appendix 5
14/15.1.43	Halifax NR692 'W' Target: Grovenbroich	P. J.83849 P/O And Crew	J. Hechter	1618	2219	Bombing Load. Same as 'H'. T: 1935.2 hrs. H: 18,500 ft. Heading: 070°. 155 m.p.h. Visibility clear. Markers were well grouped and well placed. Bombing seemed also very good.	See Appendix 5
14/15.1.43	Halifax NR122 'X' Target: Grovenbroich	P. J.37121 P/O And Crew	D.J. Stewart	1612	2209	Bombing Load. 5 x 500 lbs. S.A.P. ARM 64 (T.D. .025) 3 x 500 lbs. G.P. (T.D. .025) 8 x 250 lbs. G.P. (Tail Inst.) T: 1934.3 hrs. H: 18,700 ft. Heading: 070°. 160 m.p.h. Visibility clear. Markers were well concentrated and appeared well placed. No results seen.	See Appendix 5
16/17.1.43	Halifax NA680 'B' Target: Magdeburg	P. R116832 W/O And Crew	L.A. Russell	1920	0152	Bombing Load. 1 x 2000 lbs. H.C. (Base Inst.) 12 x 90 x 4 lbs. Incd. (40% 'X' Type). T: 2152.3 hrs. H: 20,000 ft. Heading: 112°. 155 m.p.h. Visibility clear. Could see fires from 40 miles. Saw red T.I.'s going down. T.I.'s somewhat scattered, almost at slightly left of centre of concentration of T.I.'s still burning on arrival over target. Saw number of bomb bursts which appeared to be well placed on T.I.'s. Many fires. Large explosion with deep red flames and black smoke at 2153 hours. Route and tactics good. But fighter flares dropping ahead of us on way back.	See Appendix 6
16/17.1.43	Halifax M2922 'O' Target: Magdeburg	P. R122337 W/O And Crew	McKenzie, J.S.	1832	0123	Bombing Load. Same as 'B'. T: 2143.5 hrs. H: 19,000 ft. Heading: 114°. 155 m.p.h. Visibility low haze. Marker bomb not heard. Fires were raging furiously, and could be seen from Osnabruck area. Some large explosions seen in the target area while over it but no times noted. Cloud extended from Base to Hanover at a low altitude.	See Appendix 6

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
16/17. 1.45.	Halifax MA181 'D' Target: Magdeburg.	P. J. 20599 P/L And Crew.	W.R. Mitchell.	1850	0150	Bombing Load. 1 x 2000 lbs. H.C. (Nose Inst.) 12 x GP No. 14 06/40. T: 2149.0 hrs. H: 20,000 ft. Heading: 122°. 160 m.p.h. No cloud, visibility hazy. Master Bomber quite distinct and helpful. Smoke obscured marks in A/P. Fires were well under way and covered marked area. Bursting bombs looked like bubbling jam. Fighter flares marked route all way over enemy territory.	See Appendix 6.
16/17. 1.45.	Halifax M2416 'B' Target: Magdeburg.	P. J. 28606 P/O And Crew.	D.W. Falconer.	1835	0106	Bombing Load. Same as 'D'. T: 2145.0 hrs. H: 20,000 ft. Heading: 110°. 160 m.p.h. Main low haze, otherwise clear above. T.I.'s appeared to be well concentrated and accurate. Whole town appeared to be covered with incendiaries, and fires which could be seen over 50 miles away after leaving target. Master Bomber heard to instruct N/P. to bomb centre of red and green T.I.'s. Flakpond, high and low tension wire, fuselage etc., damaged by flak at 5300N - 0920E, 2140 hours, 20,000 ft. Outward route was marked with flares shortly after crossing coast.	See Appendix 6.
16/17. 1.45.	Halifax M2507 'F' Target: Magdeburg.	P. J. 21098 P/L And Crew.	A.E. Wrennill.	1824	0117	Bombing Load. Same as 'D'. T: 2144.3 hrs. H: 19,500 ft. Heading: 132°. 170 m.p.h. Visibility fairly clear odd patches of low haze. Good concentration of mixed red and green T.I.'s. Own bombing run aided with visual identification, and good run was achieved. Numerous bomb bursts seen in marked area. The whole of the town covered with small fires. Master Bomber not heard. Illuminating flares were seen over target area. Flak damage to port flaps, at 5300N - 1032E, 2205 hours, 16,000 ft. Main flares caught fire but extinguished. Fighter flares in groups of three marked track to and from target.	See Appendix 6.
16/17. 1.45.	Halifax M2949 'G' Target: Magdeburg.	P. J. 2939 P/L And Crew.	T.C. Moore.	1833	0127	Bombing Load. Same as 'D'. T: 2144.8 hrs. H: 19,500 ft. Heading: 140°. 169 m.p.h. Visibility quite good, no cloud. Marking good except for some T.I.'s green off to starboard. Bombing generally accurate. Tremendous fires raged to starboard and beyond A/P. Master Bomber heard clearly and gave pretty clear instructions. Glow of fires were seen from 100 miles on return journey.	See Appendix 6.
16/17. 1.45.	Halifax M8156 'H' Target: Magdeburg.	P. J. 22339 P/L And Crew.	A.S. Cruickshank.	1831	0057	Bombing Load. Same as 'D'. T: 2144.0 hrs. H: 19,500 ft. Heading: 144°. 159 m.p.h. Visibility clear. Saw New Haven flares go down followed by red T.I.'s. Could see glint of river in flashes and distinctly saw built up areas. Saw some bombs exploding, but saw many fires seen. Route and tactics were good although going in low makes it difficult to get wind taped at bombing height. Weather on route back from target to coast was good flight under east.	See Appendix 6.

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APPENDIX

A.F.
FORM 541.

DETAIL OF WORK CARRIED OUT

By No. 413 (R.A.F.) Squadron

SECRET

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"2332-2311) W/L 2372-2156 738 1064 T.S. 888

FOR THE MONTH OF JANUARY, 1943

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES																								
				Up	Down																										
16/17.1.43	Halifax NR124 'F' Target: Magdeburg	P. R166405 W/O And Crew.	A.P. McDiarmid.	1838	0104	Bombing Load. Same as 'B'. T: 2147.3 hrs. H: 19,500 ft. Heading: 113E. 175 m.p.h. Visibility good. Only one set of T.I.'s were seen. The remainder seemed to be lost in among the incendiaries as Master Bomber was instructing to bomb the concentration of T.I.'s. Bombing seemed well directed on markers. One large explosion occurred while over target. No cloud on homeward route from target to Renowes, area then 12/10 cloud at 4,000 ft. as far as middle of North Sea. Fighter flares lit route out of target as far as Genabruk these were dropped by 3/8 N/O.	See Appendix 6.																								
16/17.1.43	Halifax NR249 'J' Target: Magdeburg	P. J.33339 P/O And Crew.	E.G. Wilkinson.	1840	0102	Bombing Load. Same as 'D'. T: 2149.5 hrs. H: 19,000 ft. Heading: 133E. 160 m.p.h. Visibility slight haze. Saw town burning on run up and saw red T.I.'s drop. Good concentration of red T.I.'s saw number of bombs bursting in target area. Many fires some of which looked like oil flames. H2S and gas inoperative. ON TRACK to position B, then went off track to a point estimated 40 miles north of target at 5250N - 1135E, changed course to 180T to reach target. Route and tactics were good. Weather from target to Dutch coast hazy.	See Appendix 6.																								
16/17.1.43	Halifax NR273 'L' Target: Magdeburg	P. J.9468 P/L Nav. J.40528 P/O A/B. J.40104 P/O W/O. E251076 P/S W/O. E263473 P/S P/O. E266611 P/S P/L. E218666 SGT	W.P. Borrett. D.H. Sloan. T.K. Daniel. Collins, R.A. Bradley, K. Mogridge, R.F. Munnis, D.A.	1825	—	<table border="1" style="font-size: small;"> <thead> <tr> <th>Points</th> <th>Time</th> <th>On Hours</th> </tr> </thead> <tbody> <tr><td>14</td><td>4</td><td>23:10.</td></tr> <tr><td>10</td><td>3</td><td>21:30.</td></tr> <tr><td>10</td><td>3</td><td>24:30.</td></tr> <tr><td>14</td><td>4</td><td>27:45.</td></tr> <tr><td>18</td><td>5</td><td>34:30.</td></tr> <tr><td>14</td><td>4</td><td>27:45.</td></tr> <tr><td>10</td><td>3</td><td>21:30.</td></tr> </tbody> </table> <p>Bombing Load. Same as 'D'. This aircraft returned early due to failure of starboard outer engine. 5400N - 0145E, 1912 hours, 5000 ft. 1 x 2000 lbs. H.C. (Hose Burst) - jettisoned safe but exploded. 12 x GP No. 14 CG/10 jettisoned safe to lighten aircraft. Starboard outer engine cut over base and propeller feathered. After endeavouring unsuccessfully to get engine running decided to jettison and return to base. At approximately 59/70 miles from Elborough Head flew over large number of ships at least 100 with three lights on each ship, these ships were in band approx. 20 miles wide overlapping the jettisoned area. Due to the possibility of the 2000 lbs. bomb exploding although jettisoned 'safe' jettisoning was carried out at 5000 ft. The 2000 lbs. bomb exploded.</p>	Points	Time	On Hours	14	4	23:10.	10	3	21:30.	10	3	24:30.	14	4	27:45.	18	5	34:30.	14	4	27:45.	10	3	21:30.	See Appendix 6.
Points	Time	On Hours																													
14	4	23:10.																													
10	3	21:30.																													
10	3	24:30.																													
14	4	27:45.																													
18	5	34:30.																													
14	4	27:45.																													
10	3	21:30.																													
16/17.1.43	Halifax NR283 'M' Target: Magdeburg	P. J.25751 P/L And Crew.	J.H. McQuiston.	1825	2040	Bombing Load. Same as 'D'. This aircraft returned early due to failure of starboard outer engine. 5400N - 0145E, 1912 hours, 5000 ft. 1 x 2000 lbs. H.C. (Hose Burst) - jettisoned safe but exploded. 12 x GP No. 14 CG/10 jettisoned safe to lighten aircraft. Starboard outer engine cut over base and propeller feathered. After endeavouring unsuccessfully to get engine running decided to jettison and return to base. At approximately 59/70 miles from Elborough Head flew over large number of ships at least 100 with three lights on each ship, these ships were in band approx. 20 miles wide overlapping the jettisoned area. Due to the possibility of the 2000 lbs. bomb exploding although jettisoned 'safe' jettisoning was carried out at 5000 ft. The 2000 lbs. bomb exploded.	See Appendix 6.																								

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
16/17.1.45	Halifax NA202 'B' Target: Magdeburg.	P. J. 39503 P/O	G. A. Hyland.	1830	0107	Bombing Load. Same as 'B'. T: 2444.3 hrs. H: 9,000 ft. Heading: 137T. 165 m.p.h. Master Bomber instructed to bomb centre of T.I.'s red. T.I.'s green were well concentrated. Several bomb bursts were seen around markers, it appeared to be a very good raid. The whole town was well lit up.	See Appendix C.
16/17.1.45	Halifax M2346 'O'. Target: Magdeburg.	P. J. 37482 P/O	J. S. McGuire.	1819	0113	Bombing Load. Same as 'D'. T: 2453.0 hrs. H: 13,500 ft. Heading: 090T. 165 m.p.h. Visibility clear. Markers were rather obscured by smoke. Master Bomber instructed to bomb the centre of T.I.'s red. Bombing appeared well concentrated in marked area. One very large orange coloured explosion at 2123 hours at a bearing of 200 deg. off target. It was clear up to 0300E on track then 10/10th cloud tops 16,000 ft. then clear again at 0130E up to English coast. From English coast to base 3/4 10th cloud tops 3,000 ft.	See Appendix C.
16/17.1.45	Halifax NA196 'H'. Target: Magdeburg.	P. J. 38849 P/O	J. Hechter.	1818	0056	Bombing Load. Same as 'D'. T: 2446.0 hrs. H: 13,500 ft. Heading: 090T. 160 m.p.h. Green T.I.'s were slightly more grouped than the red T.I.'s, but marking appeared very well placed. Bombing was well concentrated. Several large fires were seen.	See Appendix C.
16/17.1.45	Halifax BR72 'V'. Target: Magdeburg.	P. J. 33318 P/L	J. E. McAllister.	1816	0053	Bombing Load. Same as 'D'. T: 2445.0 hrs. H: 13,500 ft. Heading: 097T. 165 m.p.h. Visibility clear. Two sets of red T.I.'s were seen ascending into the centre of a large fire. After leaving target numerous salvos of T.I.'s red and green were seen ascending. Markers appeared to be accurate and bombing appeared to be concentrated on them. Fires still seen after leaving target area 40 miles away. Master Bomber not marked.	See Appendix C.
16/17.1.45	Halifax BR22 'X'. Target: Magdeburg.	P. J. 31121 P/O	D. J. Stewart.	1821	0100	Bombing Load. Same as 'D'. T: 2443.8 hrs. H: 13,500 ft. Heading: 102T. 165 m.p.h. Visibility fair. Saw red T.I.'s going down shortly after New Haven flares went down. Red and green T.I.'s were well concentrated except for one group. Warned off later by Master Bomber. Saw number of fires with a haze of smoke in centre. Saw number of bomb bursts in target area. Tactics and route were good.	See Appendix C.
16/17.1.45	Halifax M2386 'Y'. Target: Magdeburg.	P. J. 36428 P/O	A. E. Galloway.	1817	0123	Bombing Load. Same as 'D'. T: 2444.6 hrs. H: 13,000 ft. Heading: 120T. 165 m.p.h. Visibility clear, some smoke. New Haven flares well spread. Red T.I.'s well concentrated with incendiaries falling short of T.I.'s. Bombs were exploding in area marked by T.I.'s. Town covered with fires. At about 2121 hours saw large explosion with white flash. 2410H - 0420E, 2340 hrs. 11,000 ft. 6 x GP No. 14 05 10 4 x GP No. 14 05 10 hung up over target. Pink Road in. Mid upper burst. Routes and tactics very good.	See Appendix C.

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I.A.F.
FORM 541.

DETAIL OF WORK CARRIED OUT

By No. 415 (R.C.A.F.) Squadron

SECRET

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12321-2311 Wt. 2721-2155 724 10/64 U.S. 800

FOR THE MONTH OF January, 1945

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
16/17.1.45	Halifax ME364 'Z' Target: Magdeburg	P. J.33172 P/O	S. W. Moore	1820	0119	Bombing Load. Same as 'D'. T: 2146.2 hrs. H: 18,000 ft. Heading: 180°. 160 m.p.h. Visibility good, no cloud. Red markers were well concentrated as well as green T.I.'s. Red S.I.'s placed around the green markers. All appeared well placed. Bombing was well in the marked area. One large explosion at 2145 and 2148 hours.	See Appendix 6
23/29.1.45	Halifax NA610 'B' Target: Stuttgart	P. J.40550 P/O	B.L. Coulson	1945	0241	Bombing Load. 1 x 2000 lbs. H.C. N.L. (Hmol) 9 x G.P. No. 15 06/10. T: 2333.0 hrs. H: 20,000 ft. Heading: 172°. 155 m.p.h. 10/10 cloud, tops 12/19000. Visibility hazy. Markers were well concentrated although some flared red were seen well off to port, but these were presumed to be decoys. Markers were late by five minutes. No T.I.'s were seen cascading. One large explosion occurred in target area at bombing time. Diverted to Grafton Underwood. 5 x G.P. No. 15 Clusters hung up over target, and was jettisoned live at 2025N - 0022E, 0133 hours, 10,000 ft.	See Appendix 7
23/29.1.45	Halifax ME322 'O' Target: Stuttgart	P. J.99503 P/O	G.A. Hyland	1940	0300	Bombing Load. Same as 'B'. T: 2343.9 hrs. H: 20,000 ft. Heading: 232°. 150 m.p.h. Sky markers seen on approaching target, but had burned out before reaching the area. Others were seen lighting behind us after bombing. Glow on cloud was reddish. Two large explosions (pink) occurred in the area at 2346 hours. Diverted to Grafton Underwood.	See Appendix 7 + 10
23/29.1.45	Halifax NA131 'D' Target: Stuttgart	P. J.20559 P/L	M.E. Mitchell	1951	0217	Bombing Load. Same as 'B'. T: 2334.5 hrs. H: 20,000 ft. Heading: 172°. 165 m.p.h. Markers were scattered appearing to burst at around 18,000 ft. Red sky markers with yellow stars soon cascading 2329.5 hours. Nothing further observed. 1 x G.P. No. 15 06/10 No. 15 clusters hung up over target, brought hang up back. Landed at Grafton Underwood on instructions at take off.	See Appendix 7
23/29.1.45	Halifax ME416 'E' Target: Stuttgart	P. J.22339 P/L	A.S. Crutkshank	1949	0252	Bombing Load. Same as 'B'. T: 2329.9 hrs. H: 19,500 ft. Heading: 180°. 160 m.p.h. 10/10 thin layer cloud. Arrived on time but since markers did not go down until 2330.7 hrs. we were forced to orbit. Ran up on Wagon and red-yellow but it burned out as bombed the glow on the cloud. R.F.F. late in marking target so we were forced to orbit. Diverted to Grafton Underwood.	See Appendix 7
23/29.1.45	Halifax ME349 'G' Target: Stuttgart	P. J.2939 P/L	Moore, E.C.	1945	0255	Bombing Load. Same as 'B'. T: 2333.0 hrs. H: 19,500 ft. Heading: 140°. 160 m.p.h. One sky marker first seen at 2331.0 hrs. but no yellow stars and finally at 2330.0 hrs. one yellow star dropped from it. One green flare with red stars cascaded 2332.0 hrs. nothing further observed. Sky marking was late and insufficient and quality of markers poor. Diverted to Grafton Underwood.	See Appendix 7

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
23/29. 1.45.	Halifax NA124 *I Target: Stuttgart	P. J. 11316 P/L	J. R. Northrup	1938	0221	Bombing Load. Same as 'B'. T: 2333.5 hrs. H: 19,500 ft. Heading: 177E. 170 m.p.h. 10/10 cloud 10,000 ft. tops. Only one cluster of flares were burning at time of bombing. Original markers were three minutes late. T.I.'s disappeared into cloud. Some sky markers of both colours ignited well off to starboard. Attack seemed very badly scattered as bombs were being released on all headings. T x C.P. No. 17 clusters hung up over target, and brought back. Diverted to Grafton Underwood.	See Appendix 7.
23/29. 1.45.	Halifax NR289 *J Target: Stuttgart	P. J. 37460 P/L	C. A. Chartier	1948	0233	Bombing Load. Same as 'B'. T: 2334.5 hrs. H: 19,000 ft. Heading: 240E. 177 m.p.h. 10/10 cloud. No markers down on first run. Flares ignited at 2331 hrs. T.I.'s disappeared in cloud. Were unable to choose the centre of flares reds on second run. Glow of fires could be seen on cloud 20 minutes on return journey. Bombed on a slight bank to port. P.P.P. was lats by 4 minutes. Diverted to Grafton Underwood.	See Appendix 7.
23/29. 1.45.	Halifax NZ483 *M Target: Stuttgart	P. C. 341 W/O	P. W. Ball	1947	0300	Bombing Load. Same as 'B'. T: 2337.0 hrs. H: 19,000 ft. Heading: 167E. 170 m.p.h. Very thick haze. Arrived over target at 2332 hours. sky-marking flares red with yellow stars were seen behind so a complete starboard orbit executed and another run up made. While making this run up at approximately 2336.2 hours, 19,000 ft. 4849E - 0910E hit by heavy flak causing large fire in rear end of fuselage. Bombs released at 2337 hours. It appeared that crew would have to abandon aircraft so captain ordered crew to put on parachutes. As fire was not spreading very rapidly attempts were made to extinguish it and after one hour and five minutes it was put out. Aircraft landed at Dunsfold.	See Appendix 7.
23/29. 1.45.	Halifax LM593 *N Target: Stuttgart	P. J. 36428 P/O	A. W. Colley	1936	0235	Bombing Load. Same as 'B'. T: 2330.8 hrs. H: 19,000 ft. Heading: 175E. 165 m.p.h. Slight haze. Saw red T.I.'s cascade at 2330.3 hrs. two concentrations fall quite close together. Sky markers green yellow stars seen to fall ahead at approx. 2330.8 hrs. Saw a few flashes of bombs exploding in target area near T.I.'s. No other detail observed. Tactics appeared to be good. P.P.P. lats marking. Diverted to Grafton Underwood.	See Appendix 7.
23/29. 1.45.	Halifax MS946 *O Target: Stuttgart	P. R116832 W/O	L. A. Russell	1952	0233	Bombing Load. Same as 'B'. T: 2331 hrs. H: 18,500 ft. Heading: 177E. 172 m.p.h. Thick clouds. Ran up on red/yellow bangs but these died out and so bombed a good concentration of bangs and green/red. About 13 secs ahead and slightly to stbd. Unable to assess results of bombing. P.P.P. appeared to be at least 3 mins late. Diverted to Deanthrope.	See Appendix 7.

OPERATIONS RECORD BOOK

APPENDIX

R.A.F.
FORM 541.

DETAIL OF WORK CARRIED OUT

By No. 415 (R.C.A.F.) Squadron.

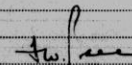
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*12341-25111 Wt. 28722-2156 75M 10/44 T.S. 200

FOR THE MONTH OF January, 1945.

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES.
				UP	DOWN		
28/29.1.45.	Halifax PN174 *R Target: Stuttgart.	P. J. 29194 W/O	G.W. Grear.	1944	0227	Bombing Load. Same as 'B'. T: 2333 hrs. H: 13,500 ft. Heading: 177E. 175 m.p.h. Visibility hazy. Bombed on red sky markers with yellow stars. Nothing further observed. P.P.F. markers appeared late. Diverted to Grafton Underwood.	See Appendix 7.
28/29.1.45.	Halifax NA136 *U Target: Stuttgart.	P. J. 24438 W/L	W.E. Goodwin.	1935	0243	Bombing Load. Same as 'B'. T: 2333.0 hrs. H: 13,500 ft. Heading: 130E. 165 m.p.h. Visibility quite good. On arriving target found no marking visible. Orbit taken and on return saw sky marking flares. Two main concentrations of flares seen approx. 1 1/2 miles apart. Bombed on starboard concentration. Saw some flashes from bomb bursts, and when leaving target area saw reddish glow building up on cloud. Bombing appeared very scattered. Diverted to Strattonhall.	See Appendix 7.
28/29.1.45.	Halifax NR172 *V Target: Stuttgart.	P. J. 13136 S/L	W.F. Brown.	1939	0227	Bombing Load. Same as 'B'. T: 2333.5 hrs. H: 13,000 ft. Heading: 230E. 170 m.p.h. Visibility above cloud good. During own bombing run only two marking flares were seen which we bombed. These two flares were closely together. No results observed. Diverted to Grafton Underwood.	See Appendix 7 & 11.
28/29.1.45.	Halifax M2336 *T Target: Stuttgart.	P. J. 36972 W/O	L.E. Minkler.	1934	0116	Bombing Load. Same as 'B'. This aircraft returned early due to lack of oxygen. Jettisoned safe 9 x C.P. No. 15 clusters O/40 01188-54448. 0027.2 hrs. 8,000 ft. to lighten aircraft. Brought back 1 x 2000 lbs. H.C. M.L. (Minel). Oxygen equipment tested and found satisfactory at take-off. In use during climb over England. Oxygen supply stopped when aircraft flying at 12,000 ft. at 4940N-0200E. Unable to continue so returned to Base.	See Appendix 7.
28/29.1.45.	Halifax M2361 *2 Target: Stuttgart.	P. J. 37121 W/O	D.J. Stewart.	1943	0223	Bombing Load. Same as 'B'. T: 2332.9 hrs. H: 13,300 ft. Heading: 177E. 175 m.p.h. Visibility hazy. Sky marking was inadequate. One bright red explosion was seen of short duration. One sky marker burst 2333.4 hrs. with yellow at 13,000 ft. Sky marking was 4 mins. later backed to port shortly after bombing to avoid another aircraft. Diverted to Grafton Underwood.	See Appendix 7.


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