

MSG No. 154.42 $P3_2211'$ [Type II, trigonal]

Table 1: Wyckoff site: **3a**, site symmetry: $.2.1'$

No.	position	mapping
1	$[x, 0, \frac{2}{3}]$	$[1, 4, 7, 10]$
2	$[0, x, \frac{1}{3}]$	$[2, 5, 8, 11]$
3	$[-x, -x, 0]$	$[3, 6, 9, 12]$

Table 2: Wyckoff site: **3b**, site symmetry: $.2.1'$

No.	position	mapping
1	$[x, 0, \frac{1}{6}]$	$[1, 4, 7, 10]$
2	$[0, x, \frac{5}{6}]$	$[2, 5, 8, 11]$
3	$[-x, -x, \frac{1}{2}]$	$[3, 6, 9, 12]$

Table 3: Wyckoff site: **6c**, site symmetry: $11'$

No.	position	mapping
1	$[x, y, z]$	$[1, 7]$
2	$[-y, x - y, z + \frac{2}{3}]$	$[2, 8]$
3	$[-x + y, -x, z + \frac{1}{3}]$	$[3, 9]$
4	$[x - y, -y, \frac{1}{3} - z]$	$[4, 10]$
5	$[y, x, -z]$	$[5, 11]$
6	$[-x, -x + y, \frac{2}{3} - z]$	$[6, 12]$