

Reference # AIP-1 Rev.1
Initiation Date: 03-Oct-2023
Engineer of Record: Shelia Zhang
Job #: 230875



Client: Double R (Macro Industries)
Contact: Kris Calverley
Equipment: A truck-mounted telescopic boom crane
Manitex 45110T (Max. capacity: 35 tons), unit# 244
(make, model, unit, SN# etc.)

Equipment Inspection and Certification Inspection Plan

(In accordance with Engineers & Geoscientists BC, Good Engineering Practices and/or Annual Equipment Inspection and Certification Guidelines, as applicable)

This "Inspection Plan" will form the basis of work to be completed throughout the inspection and certification process. It is a working document that will be completed by the Engineer of Record (EOR) as the necessary sections data/results are compiled. Sections will be completed in sequential order (Sections 1 through 4) unless otherwise instructed by the EOR. Data and results from each previous section will determine the depth of inspections required for the following section and ultimately the completion of the "Safe for Use" certification. Specific inspection requirements for each section will be communicated directly to the Client by the EOR and will be recorded in the "section notes".

Section 1 - Equipment History (documentation to be supplied by Client).

- ☒ Reviewed relevant equipment documentation.
☐ Documentation was incomplete or unavailable for review.

Section 1 Notes: Placards last inspection (was completed by other), stability to be completed

Section 1 completion date: 03-Oct-2023

EOR initials: SZ

Section 2 - Mechanical and Controls Inspection as per OHSR, applicable codes/standards and Manufacturers specifications. (Inspection report to be submitted to Altec Inspection Ltd. EOR by Client or representative of)

- ☒ Mechanical and Controls Inspection Reports - completed by qualified person
Mechanical and Controls Inspection Report Reference ID: M-SZ031023-1

☐ Not Applicable: _____

Section 2 Notes: All identified mechanical and control issues were corrected by Double R Repairs
I am satisfied with the mechanical and control inspection report

Section 2 completion date: 20-Oct-2023

EOR initials: SZ

Section 3 - Structural Inspection as per OHSR, applicable codes/standards and best engineering practices. (Structural Inspection will be completed by Altec Inspection Ltd.)

- ☒ Structural Inspection Report - completed by qualified person
Structural Report ID: S-SZ031023-1

Section 3 Notes: Disassembled boom inspection was completed on June 13, 2023. Disassembled load block (serial # 41397676) inspection was completed on June 30, 2023.
No significant structural deficiencies were noted at the time of inspection.
Stability test was completed on October 12, 2023.

Section 3 completion date: 20-Oct-2023

EOR initials: SZ

Section 4 - Final Certification

- ☒ All documentation and inspections provided were found to be in compliance with the Engineers & Geoscientists BC, Good Engineering Practices and/or the Annual Equipment Inspection and Certification Guidelines. Issue "Safe for Use" certification.
Certification (Report ID): C-SZ031023-1

☐ All documentation and/or inspections were not satisfactory. Certification cannot be issued.

Section 4 Notes: Please maintain documentation and equipment as per OEM, OHSR & EGBC Guidelines

Note: the maximum crane capacity was limited by the current load block capacity of 35 tons

Section 4 and self check completion date: 20-Oct-2023

EOR initials: SZ

QJM document review and acceptance.

Reviewed by: [Signature]

Date: 17 Oct 2023

Document Rev. Date: May 5, 2021

SAFE FOR USE CERTIFICATE

Inspection Plan Ref.: AIP-1 Rev.1

Report ID: C-SZ031023-1

CLIENT: Double R (Macro Industries)

MAKE & MODEL: Manitex 45110T (maximum capacity: 35 tons, limited by the current load block)

SERIAL NUMBER: 203928

UNIT: 244

LOCATION: Double R Repairs' yard, Fort St. John B.C.

CERTIFICATE DATE: October 03, 2023

CERTIFICATE EXPIRATION DATE: October 03, 2024

STRUCTURAL INSPECTION REF.: S-SZ031023-1
Completed by Altec Inspection Ltd.

MECH. & CONTROLS INSPECTION REF.: M-SZ031023-1
Completed by Owners Representative

The Structural Inspection and the Mechanical and Controls Inspection documents were prepared in accordance with the *Professional Practice Guidelines – Annual Equipment Inspection and Certification in British Columbia*.

Based on the information provided in the referenced inspection reports, it is my considered opinion that the above referenced equipment is Safe for Use within the OEM recommendations.

Any change to the "Safe Working Condition" of the equipment, will render this certification invalid.

The above has been completed as required by the *Occupational Health and Safety Regulations (B.C. Reg 296/97)*.



Xiu Feng (Sheila) Zhang, P.Eng

Qualified Engineering Professional of Record
(in the Province of British Columbia)
Altec Inspection Ltd. EGBC PP # 1001837

ALTEC

SZ 031023-1 Inspection Ltd.
Inspection & Engineering
Contact: (250) 785-6295
STRUCTURAL INSPECTION TAG

Make: MANITEX UNIT 244
Model #: 45110T
Date: October 03, 2023
Ser.# 203928
Inspector: SE

ALTEC INSPECTION LTD.

CRANE STRUCTURAL INSPECTION

Inspection Plan Ref. # AIP-1 Rev.1

Report ID # S-52 031023-1

EQUIPMENT BACKGROUND INFORMATION			
CLIENT:	Double R (Macro Industries)		
DATE:	October 03, 2023		
MAKE / MODEL / CAPACITY:	Mannifex 45110 T (Crane Capacity: 45T)		
SERIAL NUMBER:	203928 Limited by Local Block: 35T		
UNIT:	244		
SCOPE of WORK:	<input checked="" type="checkbox"/> Annual Inspection <input type="checkbox"/> Modification Inspection <input type="checkbox"/> Repair Inspection	Equipment Type: <input type="checkbox"/> Articulating Boom Crane <input type="checkbox"/> Telescopic Boom Crane	<input type="checkbox"/> Tower Crane <input type="checkbox"/> Derricks <input type="checkbox"/> Other:
Acceptance Criteria (Codes / Standards):	<input checked="" type="checkbox"/> OHSR Part 14 <input type="checkbox"/> OHSR Part 16 <input type="checkbox"/> OHSR Part 20 <input type="checkbox"/> Other:	<input checked="" type="checkbox"/> CSA Z150 - 1998 <input type="checkbox"/> CSA Z151 - 2009 <input type="checkbox"/> CSA Z248 - 2004 <input type="checkbox"/> ANSI/ITSDF 56.6 - 2011	<input type="checkbox"/> ASME B30.4 - 2003 <input type="checkbox"/> ASME B30.5 - 2004 <input type="checkbox"/> ASME B30.22 - 2005 <input type="checkbox"/> Other:
CRITICAL AREAS of INSPECTION (can include but are not limited to)		INSPECTION COMMENTS	
BOOM	<input checked="" type="checkbox"/> Main Boom <input checked="" type="checkbox"/> Other Boom Sections <input checked="" type="checkbox"/> Pins & Ears 74m	OK	
BLOCK & HOOK 35Tm SLR 413 97676	<input checked="" type="checkbox"/> Hooks ball head <input checked="" type="checkbox"/> Safety Latch SLR <input checked="" type="checkbox"/> Pin & Bushing 413 02290	OK	
SHEAVES	<input checked="" type="checkbox"/> Wear/Fatigue <input checked="" type="checkbox"/> Boom Sheaves <input checked="" type="checkbox"/> Hook Sheaves	OK	
CABLE & GUIDES	<input checked="" type="checkbox"/> Wear <input checked="" type="checkbox"/> Placement <input checked="" type="checkbox"/> Bushings	OK	
TURRET or BASE	<input checked="" type="checkbox"/> Welds <input checked="" type="checkbox"/> Bearings / Bushings <input checked="" type="checkbox"/> Pins & Ears	OK	
PEDESTAL MOUNT	<input checked="" type="checkbox"/> Flanges <input checked="" type="checkbox"/> Pins & Ears <input checked="" type="checkbox"/> Bolts & Spacers	OK	
PLACARDS	<input checked="" type="checkbox"/> Load Chart <input checked="" type="checkbox"/> Overhead Elect. <input checked="" type="checkbox"/> Control Levers	OK	
CABLE / CHAINS / ROPE	<input checked="" type="checkbox"/> Worn/Frayed <input checked="" type="checkbox"/> Lubrication <input checked="" type="checkbox"/> Winch Attach.	OK	
UNDERCARRIAGE	<input checked="" type="checkbox"/> Frame <input checked="" type="checkbox"/> Bolts	OK	
OUTRIGGERS	<input checked="" type="checkbox"/> Welds <input checked="" type="checkbox"/> Hydraulics <input checked="" type="checkbox"/> Frame Support	OK	
OTHER COMMENTS (repairs, recommendations, non-critical deficiencies, additional equipment observations, etc.)		Stability test was completed on Oct 12, 2023	
NOTE: If the equipment is not fully disassembled some structural components may not be accessible to inspection.			
Additional EOR Structural Inspection Report to follow Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
INSPECTED BY:	sheilu zhang (PRINT) sheilu zhang (SIGNATURE)	Inspectors Qualifications: Engineer and/or CSA W178.2 Reg# 5100275 CAN/CSGB 48.9712 MT2 Reg# 16426	
SELF-CHECKED BY:	sheilu zhang (PRINT) sheilu zhang (SIGNATURE)	Oct 20, 2023 (DATE)	
DIRECT SUPERVISION BY: (if applicable)	(PRINT) (SIGNATURE)	(DATE)	

MECHANICAL AND CONTROL ELEMENTS INSPECTION

Ergonomics, 2006 Vol. 49, No. 8, 979-990

SE 031023-

EQUIPMENT BACKGROUND INFORMATION			VEHICLE INFO
CLIENT	MACRO		198231
DATE OF INSPECTION	4 OCTOBER 2023		11061
MAKE / MODEL / CAPACITY	MANITEX 45110T		11061
SERIAL NUMBER	203928	1NKD4TXCER967786	
UNIT	244		
SCOPE OF WORK (describe task and type of equipment)	10 Year Tear Down + Yearly Inspection		
Mechanical & Controls Inspection (perform as per identify applicable items)	<input checked="" type="checkbox"/> OHSR Part 24 (check the applicable, as applicable) <input checked="" type="checkbox"/> OHSR Part 13 (manipulate, portable wire platform, etc.) <input checked="" type="checkbox"/> OHSR Part 14 (portable hoist, crane, etc.) <input checked="" type="checkbox"/> OHSR Part 15 (portable hydraulic equipment, etc.)		
In addition to the applicable OHSR, the applicable standards provided by the client and any requirements of the applicable code of jurisdiction, the Mechanical and Controls Elements Inspection will be performed as required by the VTCO INSPECTION LTD. Inspection with Non-compliance with the applicable standards may be cause for non-compliance to a safe for use certification.			
AREAS OF INSPECTION (may include and are not limited to)	ITEM CONDITION ACCEPT REJECT	INSPECTION COMMENTS: Please explain accept/reject or why not applicable. Please do not leave blank spaces.	
Vehicle Condition (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	FW 39654	
Performance of service (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	"	
Structural Condition (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	"	
Hydraulic System (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	"	
Control System (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	OK Came in 5 pieces Repair after accident.	
Electrical System (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	OK	
Other (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	OK	
Other (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	OK New Turret Bolts, New Swing Brake	
Other (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	OK New Main with Lin.	
Other (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	OK New Tele Hyd cyl + All Cables	
Other (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	OK New Boom Length Decals Boom	
Other (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	OK New Control Panel (Custom Provided)	
Other (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	OK 1st Tele Boom Bent + Cut + Replaced.	
Other (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	OK The AAB Not working + Hypothesed	
Other (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	5 Year Block Tear Down 10 Year Boom Perform Stability Test.	
Regarding the inspection equipment, and in addition to the applicable OHSR, the applicable standards provided by the client and any requirements of the applicable code of jurisdiction, the Mechanical and Controls Elements Inspection will be performed as required by the VTCO INSPECTION LTD. Inspection with Non-compliance with the applicable standards may be cause for non-compliance to a safe for use certification.			
INSPECTOR	Rikis Danyel		100885
DATE OF INSPECTION	4 OCTOBER 2023		11061
MAKE / MODEL / CAPACITY	MANITEX 45110T		11061
SERIAL NUMBER	203928	1NKD4TXCER967786	
UNIT	244		
SCOPE OF WORK (describe task and type of equipment)	10 Year Tear Down + Yearly Inspection		
Mechanical & Controls Inspection (perform as per identify applicable items)	<input checked="" type="checkbox"/> OHSR Part 24 (check the applicable, as applicable) <input checked="" type="checkbox"/> OHSR Part 13 (manipulate, portable wire platform, etc.) <input checked="" type="checkbox"/> OHSR Part 14 (portable hoist, crane, etc.) <input checked="" type="checkbox"/> OHSR Part 15 (portable hydraulic equipment, etc.)		
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Vehicle Condition (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	FW 39654	
Performance of service (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	"	
Structural Condition (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	"	
Hydraulic System (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	"	
Control System (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	OK Came in 5 pieces Repair after accident.	
Electrical System (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	OK	
Other (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	OK	
Other (check condition, identify mechanical condition, parts, damage, repair, etc. with OHSR Part 24)	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Applicable	OK New Turret Bolts, New Swing Brake	
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INSPECTOR	Rikis Danyel		100885
DATE OF INSPECTION			

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26