

CHAPTER 7

CONCLUSION AND RECOMMENDATION

The last chapter will discuss about the conclusion about the research conducted, and also the suggestion to the system.

7.1. Conclusion

The improvements in stock opname activities are done by utilizing the spreadsheet functions such as formulas with Macros or Excel VBA. The created functions are used to make the spreadsheet be semi-automated, and remove the non value-added activities. The non-value-added activities were mainly consist of back-and-forth movement from Team Leaders and workers who count the stock, repetitive actions of opening and closing the same file form many times, and the other one is the steps that need to be done by personnel while doing stock opname. With the improvement the number of manual activities are reduced from twentyfour activities to ten activities or 60% reduction. This semi-automated spreadsheet also eliminates all motions, from five motions to zero motions. This also resulted in the reduction of time needed to gather the data from an average time of two hours into thirty minutes or 75% reduction, and the time needed to finish final generate and crosscheck data is from an average of thirty minutes to a ten minutes or around 67% reduction. Hence, it can be concluded the usage of IT can be used to reduce and eliminate non-value-added activities on stock opname process.

7.2. Recommendation

The limitation found on production is all computers on production floor are not connected to an intranet. This leads to the applications should be created using server, while server has limited data saving capacity. The computers on production floor should be available for internet, so the next improvement of the program could be created with web-based, with has higher security, better database, and bigger data saving capacity.

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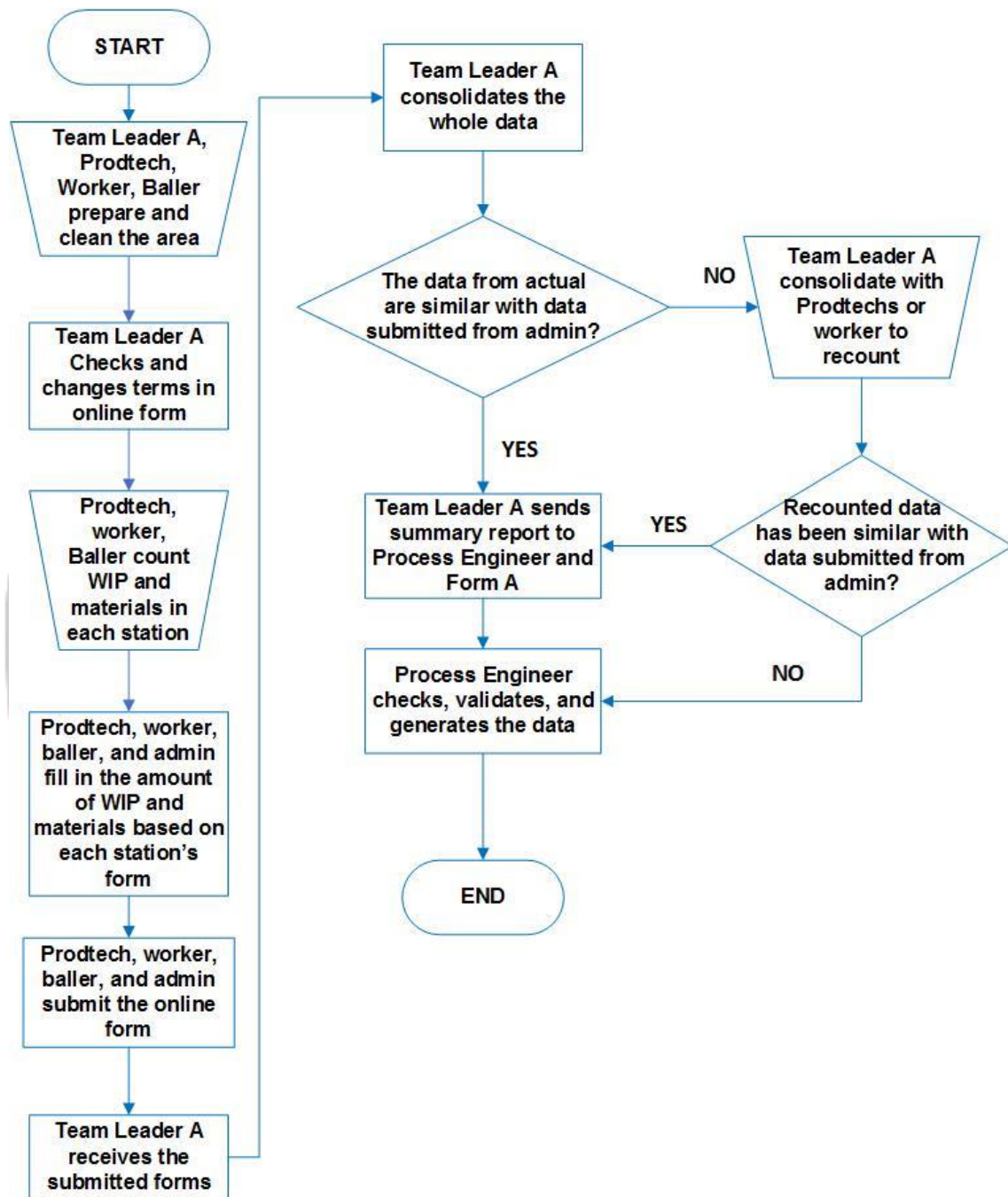
Appendix 1. Interview

Date	Interviewee	Interview
15/10/2018	Team Leader A	<i>T: Terkait proses stock opname, bagaimana prosedur yang selama ini dijalani?</i> <i>J: Proses stock opname berjalan ketika sebelum pukul 6 pagi, semua operator clean up lokasi terlebih dahulu. Ketika pukul 6 pagi, barang material di stop tidak di transfer ke produksi. Operator lalu melakukan stock opname dengan mendata masing-masing material dan WIP sesuai dengan kode produksi. Setelah itu, mereka akan melapor ke saya memberikan saya form yang sebelumnya saya bagikan.</i>
15/10/2018	Team Leader A	<i>T: Bagaimana proses dari awal persiapan Team Leader hingga Team Leader selesai validasi, terkait stock opname?</i> <i>J: Pertama Team Leader yaitu saya akan mengecek file dari Process Engineer, apakah ada perubahan kode ataupun material. Lalu saya print satu-satu form nya. Saya biasa meletakkan form di meja yang ada di Open Space tapi ketika saya ada keperluan ke produksi, saya bawa beberapa yang sekiranya ada Prodtech nya disitu, biar saya kasih langsung. Cuma biasanya saya drop di Open Space. Lalu nanti ketika mereka semua sudah selesai dan sudah kasih kertasnya ke saya, saya minta Team Leader 4 lainnya untuk ambil form sesuai dengan stasiun mereka. Nanti nya saya kasih masing-masing Excel ke Team Leader, mereka bisa input angka di form tersebut. Lalu nanti Excel diberikan kembali ke saya. Nanti tinggal copy-paste hasil. Lalu saya juga cek</i>

		data nya ini sudah benar atau belum. Kemudian saya kroscek dengan Admin. Admin akan menyebutkan data yang mereka dapat dari SAP dan saya kroscek apakah data yang saya punya sudah benar. Jika benar maka saya tulis kembali di salah satu form khusus untuk material lem, triasetin, WIP. Jika belum, saya kroscek lagi ke produksi. Lalu nanti kroscek lagi ke Admin sampai benar.
15/10/2018	Team Leader A	T: Apa kendala yang selama ini bapak temui dalam proses stock opname? J: Biasanya teman-teman gak selalu kasih form tepat waktu karena kan ngurusin mesin. Atau saya nya yang jalan-jalan ke produksi memantau jadi gak selalu di ruangan. Kalaupun di ruangan juga gak tentu dimana, soalnya Team Leader gak punya kubikel juga. Lalu ya itu prosesnya bisa sampe jam 9 baru selesai. Biasanya karena keulur atau ada kesalahan penulisan dari teman-teman produksi. Kalaupun ada kesalahan lainnya juga biasanya udah ngantuk atau gimana. Kan yang jalani stock opname semua teman-teman dari shift 3 yang udah masuk dari jam 10 malam. Jadi biasanya memang stock opname ini memakan waktu sih
17/10/2018	Process Engineer	T: Seberapa sering adanya perubahan kode, material, dan brand change? J: Tidak terlalu sering. Biasanya sebulan sekali ada pergantian dari Warehouse karena berkaitan dengan pemilihan supplier juga, jadi beda supplier beda kode, tapi tidak semuanya
17/10/2018	Process Engineer	T: Bagaimana cara Process Engineer mengolah hasil stock opname dari Team Leader?

		<i>J: Setelah mendapatkan hasil, Form khusus yang lem, triasetin, dan WIP setelah disetujui oleh Manajer saya olah dari situ, dan saya juga olah dari form kertas yang sebelumnya diisi oleh Prodtech dan teman-teman produksi lain. Kemudian saya olah dengan berbagai metode supaya nantinya saya menemukan formula yang pas untuk perkiraan habisnya bandrol untuk minggu depan, dan order untuk produksi selanjutnya.</i>
17/10/2018	Admin	<i>T: Bagaimana cara kerja Admin mengolah hasil stock opname dari Team Leader?</i> <i>J: Admin dan Team Leader yang mengurus stock opname akan kroscek di meja Admin. Saya dapat data dari SAP dan TL dari data aktual hasil perhitungan.</i>
18/10/2018	Prodtech, Worker, Baller	<i>T: Bagaimana proses stock opname yang selama ini dijalani teman-teman? Apakah ada kendala?</i> <i>J: Kami menghitung lalu nulis jumlah di form yang sudah diberikan. Biasanya ya kalau misal ada kesalahan hitung kami tahu nya lama, karena dari TL sendiri mungkin gak langsung cek juga angkanya sudah bener apa belum. Jadi makan waktu banget. Dan kalau mau kasih form nya bingung TL nya ini ada dimana. Jadi kalau hari senin sudah tahu akan pulang lama.</i>

Appendix 2. Proposed Business Process



Appendix 3

