

AID P - 4967

Subject : USSR/Engineering
Card 1/1 Pub. 110-a - 16/21
Author : Shukher, S. M.
Title : ~~Design of new and modernized boilers~~ (Reference Material).
Periodical : Teploenergetika, 8, 54-57, Ag 1956
Abstract : Various types of new drum boilers with natural circulation,
as well as of once-through boilers are described and
illustrated by tables. (Reference Material).
Institution : None
Submitted : No date

AID P - 5110

Subject : USSR/Engineering
Card 1/1 Pub. 110-a - 13/18
Author : Shukher, S. M., Eng.
Title : ~~Planning new and modernized steam turbines~~ (Chronicle)
Periodical : Teploenergetika, 10, 58-60, 0 1956
Abstract : The designs of several new turbines developed by the Khar'kov Turbine Plant and Leningrad Metal Plant are described (PVK-160, VPT-50, VK-100-6 and VK-50-3 turbines). Tables.
Institution : None
Submitted : No date

SHUKHER, S.M., redaktor; KORIKOVSKIY, I.K., redaktor; MEDVEDEV, L.Ya.,
tehnicheskiy redaktor

[Ash removal by hydraulic means at electric power stations]
Gidrozoloudalenie na elektrostantsiyakh. Moskva, Gos.energ.
izd-vo, 1957. 87 p. (Iz opyta sovetskoi energetiki)
(Electric power stations) (MLRA 10:7)
(Ash disposal)

IMBRITSKIY, M.I.; SHUKHER, S.M., red.; VORONIN, K.P., tekhn.red.

[Correcting defects of steam fittings in electric power stations]
Ustranenie povrezhdenii parovodianoï armatury na elektrostantsiakh.
Moskva, Gos.energ.izd-vo, 1957. 288 p. (MIRA 11:1)
(Pipe fittings)

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S.M.

Shkrob, M.D.
AUTHOR:

Engineer.

Experience of operating high steam conditions. ((Opyt stantsii sverkhvysokikh parametrov))

TITLE:
PERIODICAL:
ABSTRACT:

"Teploenergetika" (Thermal Power), 1957, Vol. 60 - 63 (U.S.S.R.)

The commission on high steam conditions organized on the 15th-18th May a scientific-technical session to consider operating experience with the Cherepetsk regional electric power station. This article gives an account of the various contributions made to the session and of the decisions taken of equipment of Soviet manufacture which has given rise to a number of unexpected difficulties. Particular attention was paid to the study and correction of the circulation in the boiler screens, the separation and steam washing devices and measures against slag formation in the furnaces, etc. The Venyukovskiy fittings works, in close collaboration with the Research Institutes, developed 32 types of fittings suitable for super-high steam conditions. However, more experimental and research work on fittings experience a number of changes On the basis of operating experience a number of changes have been made in the design of the turbines. For instance,

1/12

650
with super-

Experience of operation at high steam conditions.

the works modernised the flow paths of turbine No. 3, namely, profiles of properties were used for the velocity wheels stages; steps were taken to reduce leakage gaps at the blade shrouds; the number of pressure stages increased from 7 to 8. These measures increased the turbine efficiency by about 2%.

On the basis of operating experience with the first two turbines, the following changes were made in the fourth turbine. The internal cylinder of the construction of the flanged joint between the inner cylinder of pearlitic steel and the nozzle boxes of austenitic.

Some difficulties were experienced with the packing glands on the shaft of the feed pump. The existing soft packing proved unsuitable at peripheral speeds of 36 metres/sec and a labyrinth gland was accordingly used. The use of three gap packing for the working wheels of the pump caused rotor vibration. This was found to occur if the gaps were more than 0.3 mm long. The use of single gap packing overcame this difficulty. This led to the tendency to make the apparatus more reliable irradiation. The use of new factory inspection procedures including irradiation with radio-active cobalt and polishing and etching of the surfaces of parts.

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Experience of high steam conditions. Ya.M. Ostrovskiy (Mosenergo) rep- the Cherepetsk station was commenced a first turbo-alternator set was running at the second at the end of 1954. The rated output was due to the novelty of the equipment and to the presence of a number of design defects. Because of power plant shortage the plant could not be shut down for adjustments. Useful experience was gained in the operation of boilers with natural circulation on steam of super-high conditions. Experience has shown that it will be possible to use the block circuit without a spare boiler. The main defects of the boiler equipment were: the low efficiency of the boiler (85%) due to the high temperature of the outgoing flue gases and to excess air; the need for large injection of water into the reheater, large intake of air in the drying-milling system and in the boiler economiser and ash wear of tubes in the upper row of the water economiser and of the induced draught fan; the lower parts of the air heater tubes become clogged with ash. On an average boilers can run for The boilers have often not been fully loaded and there have been many starts and stops.

650

Card 3/12

(cont.) power station with super-
 twenty days. Two turbines are now operating and two more will be running before 1958. Experience shows that the steam temperature could be raised to 580 °C using the same brands of turbines that must be overcome include: control stage; gov-

Experience of operating the first power station with super-high steam conditions. (Cont.)

and the pressure drop in the feed control valves was high. The following new brands of heat-resistant steel were used in the manufacture of the sets for Cherepetsk; ЛА-1 for cast parts of the turbines and fittings; ЭИ-257 for steam pumps, super-heaters and drainage; ЭИ-572 for strengthening parts; ЭИ-405 for blades and a number of forged parts and 16-СМ for boiler drums. New brands of electrodes, ЦТ-7 and КТМ-5 were used for arc and contact welding. During operation the following were observed: surface pits in parts made of steel ЛА-1; surface pits in welded joints on parts made of steel ЛА-3 and cracks, mostly concentrated at places of transition from the main frame to branch pipes and flanges; cracks in super-heater tubes because small radius bends had not been heat-treated; high wear of nozzle parts; breaks and partial cracks in fluted linings of steel ЭИ-1-Т in super-high pressure fittings. Tests on steel ЭИ-257 taken from piping showed appreciable loss of plastic properties because of ageing. There were cases of welded joints breaking in service.

A.A. Belyaev of the Cherepetsk Power Station said that in two years there have been 119 enforced stoppages of the boilers for the following reasons: damage to screen tubes - 25; slagging in furnace - 8; damage to superheaters - 26;

Card 5/12

Experience of operating the first power station with super-
high steam conditions. (Cont.)

650

defective fittings - 22; water economiser defects - 5; other causes - 23.

To improve the reliability of the boilers it is necessary to: sectionalise the collectors; test the operation of multi-gap burners with reduced rate of primary and secondary air; replace the lower tubular section of the air heaters by cast iron and lower the temperature of the outgoing gases to 140 °C by increasing the surface of the air heaters. New boilers should have shaft type mills instead of drum type ball mills. Construction of the feed control valve should be improved. It is necessary to operate the station on the block circuit (one turbine one boiler).

D.F. Peterson and I.E. Dubovskiy of the Central Boiler and Turbine Institute reported that until early 1955 the boilers worked with a steam load of not more than 200-210 tons/hr, and when they commenced to burn coal with more fusible ash, heavy slagging of the screens was observed at these loads. This trouble was reduced by re-arrangement of the air supply and the burners. The load could then be increased to 250 tons/hr. Test results gave: boiler efficiency 89.5%; furnace losses 0.5 - 1%, outgoing gas temperature 165 - 175 °C; gas resistance of boilers 180 mm water; water consumption for injection to regulate superheat 5 - 10 tons/hour and to regulate reheat 8 - 12 tons/h. Cracks continue to appear in the superheater

Card 6/12

Experience of operating the first power station with super-⁶⁵⁰
high steam conditions. (Cont.)

tubes made of steel ~~3A~~-257 and in new boilers the superheaters are made of steel ~~3A~~-1.T.

A.A. Kot (All-Union Thermo-technical Institute) and Yu.V. Zenkevich (Central Boiler and Turbine Institute) reported that thermal-chemical tests were made on the boilers at 180-185 atm. after reconstruction of delivery of steam-water mixture to the main drum. The salt content of the steam in the salty sections was approximately the same before and after the main drum. Depending on the alkalinity of the boiler water the carry-over factor of silicic acid from the cyclones was 2.5 - 12%. Depending on the load the salt content of the steam and the carry-over factor of sodium ions (sodium salts) from the main drum were 0.07 - 0.15 mg/kg and 0.15 - 0.35%, respectively. The carry-over factor of silicic acid reached 11%. After washing the steam with 20% of the feed water the silicic acid content fell by a factor of 3.8, (boiler 1) and after washing with 40% of feed water by a factor of 4.5 (boiler 2). Silica deposition in the high pressure section of the turbine occurs when the silicic acid content of the steam at inlet is above 0.07 kg/mg. In the medium and low pressure sections silica deposition occurs when the silica content of the inlet steam to the medium pressure section is 0.01 - 0.02 mg/kg. When the salt content

Card 7/12

650

Experience of operating the first power station with super-high steam conditions. (Cont.)

of the steam is about 0.02 - 0.03 mg/kg and the concentration of silicic acid is not greater than 0.02 mg/kg no deposits are formed in the turbine. To improve the steam quality it is recommended to improve steam separation in the main drum, to double the output of the salty sections by limiting three-stage evaporation and to unite the salty sections so that there is only one blow-down point.

L.A. Dunayev (Cherepetsk Station) reported on the loads taken by the turbines. The main defects were: excessive expansion of the high pressure rotor relative to the stator on starting and increasing load, also contraction on dropping load, so that starting up and shutting down times are very long; available condensate injection into the receiver pipes between the medium and low pressure section does not reduce the temperature enough; the method of governing is complicated; the oil cooler is not big enough. For future equipment of similar kind it is recommended: to replace the evaporator installation by chemical de-salting of make-up water; to do away with the gland steam heater, directing the steam to the medium pressure section; to do away with the spare high pressure heater; to replace the steam ejectors by water; to use the cascade principle of drainage with delivery to the condenser; to replace the de-aerators by closed volumes under pressure, de-aerating the feed water in the condensers; to

Experience of operating the first power station with ⁶⁵⁰super-high steam conditions. (Cont.)

extend the block (unit) principle to the cooling water systems. Trouble was experienced with the feed pump glands.

V.P. Lobanov and V.P. Murganov (All-Union Thermo-technical Institute) on the basis of operating experience with the turbine and associated equipment concluded that: the turbine met the heat consumption guarantee with the normal tolerance; the internal relative efficiency of the high pressure cylinder for conditions when three governor valves are open is 73% (3.3% different from the calculated value); the internal efficiency of the medium pressure cylinder is 88.4% (calculated 88.9%); the regenerative temperatures are as designed; the drainage cooler for the heating steam from the high pressure heater works unsatisfactorily, the drainage is not cool enough; steam leakage through the labyrinth glands into the third bleeding point and to the gland heater are bigger than the designed values. Test data on the governor system are given and it is concluded that the requirements are met, both in normal operation and when the generator is disconnected from the power system.

A.V. Ratner, V.G. Zelinskiy, P.M. Gura (All of the All-Union Thermo-technical Institute) and M.E. Zaydman (Cherepetsk Station) reported that tests on the fittings had revealed new effects including a tendency to scoring of austenitic steels, hydro-

Card 9/12

Experience of operating the first power station with super-high steam conditions. (Cont.)

genisation and corrosive action of certain sorts of graphite, etc. It is necessary to find more stable materials for fittings and various recommendations are made about valve design.

To facilitate maintenance - inspection of creep in steam piping, the erection organisation should record the batch numbers of the pipes and the pipe manufacturers should indicate in their documents the numbers of pipes with the least favourable characteristics in respect of creep. This would simplify inspection procedure. It is still early to differentiate between the behaviour of joints which have or have not been heat-treated after welding.

A.Ya. Kagan (All Union Thermo-technical Institute) discussed the influence of feed water gas content on corrosion. The presence of CO_2 promotes formation of copper and iron oxides. The main source of CO_2 is the evaporators fed by deionised water containing bicarbonate alkalinity. Some deposits were formed in the screen tubes.

As the result of the discussion it was decided: the boiler-turbine and thermo-technical institutes should continue work on perfecting the separation systems of the Cherepetsk boilers in order to reduce the requirements in respect of purity of feed water and in order to develop ways of starting up the equipment more rapidly; to direct the attention of the boiler manufacturers to the need to increase the efficiency of boilers and auxiliary equipment to the level of the foreign practice;

Experience of operating the first power station with super-high steam conditions. (Cont.)

to point out to the equipment manufacturers the need to provide reliable, efficient thermal insulation which can easily be dismantled without damage; to develop furnace linings which prevent air leaks throughout the period of operation of the boilers; the Research Institutes and the Power Station to develop ways of getting salt deposits out of turbines; to improve the work of the station chemical laboratory particularly by the greater use of instrumentation for automatic control of blow-down and for other chemical tests; to extend research work on economy and efficiency; to continue work on improving fittings for super-high steam conditions; to carry out extensive testing of fittings at the Cherepetsk Station; the behaviour of austenitic steels and welded joints to be observed carefully to gain experience; to press on with work to reduce pressure drops in feed water control valves; the Research Institutes should review the methods and quantity of inspection of metal under operating conditions in order to simplify and cut down the work; a complex brigade to be formed from a number of interested bodies to make an all-round study of the causes of faults in steam pipes for super-high pressures; the matter of steam pipe supports to be examined, methods of expansion compensation to be verified and design to be reviewed to

Card 11/12

650

Experience of operating the first power station with super-high steam conditions. (Cont.)

relieve loads on assembled joints as far as possible.

No figures, no literature references.

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BAZUMOV, Ippolit Mikhaylovich; GINZBURG, Yevgeniy Grigor'yevich; SHIKHGAL'TER, Lev Yakovlevich; AVHUTSKAYA, R.F., redaktor izdatel'stva; BERLOV, A.P., tekhnicheskiiy redaktor

[Organization and planning of production in plants machining nonferrous metals] Organizatsiia i planirovanie proizvodstva na zavodakh po obrabotke tsvetnykh metallov. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 383 p. (MIRA 10:1)
(Nonferrous metal industries)

KONSON, Aron Solomonovich; TYAGAY, Ye.Ya., red.; SHUKHGAL'TER, L.Ya.,
red.; MUKHIN, Yu., tekhn.red.

[Economic efficiency of new techniques] Ekonomicheskaiia
effektivnost' novoi tekhniki. Moskva, Gos.izd-vo polit.
lit-ry, 1958. 390 p. (MIRA 11:12)
(Machinery in industry) (Technology)

CHERNYAK, Viktor Samuilovich, inzh.; VOSHCHANOV, Konstantin Pavlovich,
inzh.; ~~SHUKHGALUTER, I. Ya.~~ kand. tekhn. nauk, nauchnyy red.;
RYCHEK, T.I., red.; RAKOV, S.I., tekhn. red.

[Young welder's handbook] Spravochnik mladogo svarshchika.
Moskva, Vses. uchebno-pedagog. izd-vo Trudrezervizdat, 1958.
479 p. (MIRA 12:1)

(Welding)

SHUKHALTER, L.YA.

DNM'YANYUK, Foma Semenovich, prof., doktor tekhn.nauk; STANKEVICH, V.G.,
inzh., retsenzent; SHUKHALTER, L.Ya., kand.tekhn.nauk, red.;
SHEMSHURINA, Ye.A., red.izd-va; EL'KIND, V.D., tekhn.red.

[Technological principles of assembly-line and automatic production]
Tekhnologicheskie osnovy potochnogo i avtomatizirovannogo proizvod-
stva. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry,
1958. 693 p. (MIRA 11:4)

(Automatic control)

(Assembly-line methods)

BARDIN, I.P., akademik; DYMOV, A.M., prof., doktor khim.nauk; DIKUSHIN, V.I.; akademik; TSELIKOV, A.I.; OTLEV, I.A., inzh. (g. Khimki, Moskovskoy oblasti); DEM'YANYUK, F.S., prof., doktor tekhn.nauk; RYBKIN, A.P., prof., doktor tekhn.nauk; YAKUSHEV, A.I., prof., dokt. tekhn.nauk; KIDIN, I.N., prof. doktor tekhn.nauk; KOROTKOV, V.P., dots., kand. tekhn.nauk; ~~SHCHEGALINER, I.Ya.~~, dots., kand.tekhn.nauk; KUKIN, G.N., prof., doktor tekhn.nauk.

Every specialist should know the principles of of standardization.
Standartizatsiia 22 no.4:34-40 J1-Ag '58. (MIRA 11:10)
1.Chlen-korrespondent AN SSSR (for Tselikov). 2.Predsedatel' tekhniko-ekonomicheskogo soveta Mosoblsovnarkhoza (for Rybkin). 3.Direktor Moskovskogo instituta stali imeni I.V. Stalina (for Kidin). 4.Direktor Moskovskogo vechernego mashinostroitel'nogo instituta (for Korotkov).
(Standardization--Study and teaching)

25(5)

PHASE I BOOK EXPLOITATION SOV/2603

Shukhgal'ter, Lev Yakovlevich, Candidate of Technical Sciences

Modernizatsiya oborudovaniya i yeye ekonomicheskaya effektivnost'
(Modernization of Equipment and Its Economic Efficiency)
Moscow, Izd-vo "Znaniye," 1959. 47 p. (Series: Vsesoyuznoye
obshchestvo po rasprostraneniyu politicheskikh i nauchnykh
znaniy. Seriya III, 1959, Nr 3) 49,000 copies printed.

Sponsoring Agency: Vsesoyuznoye obshchestvo po rasprostraneniyu
politicheskikh i nauchnykh znaniy.

Ed.: Z.S. Bogatyrenko; Tech. Ed.: Ye. V. Savchenko.

PURPOSE: This booklet is intended for the general reader.

COVERAGE: The booklet underlines the importance of modernization
of industrial equipment to the overall economic development
of the USSR. It reviews the trends in equipment modernization,
describes the system of modernization that exists in the USSR,
and outlines methods of analyzing and calculating the economic
efficiency of repairs, maintenance, and modernization, and also
Card 1/2

BARTASHEV, Leonid Veniaminovich, kand.tekhn.nauk; SHUKHGAL'TER, L.Ya.,
nauchnyy red.; KOSAKOVSKAYA, N.A., red.; ATROSHCHENKO, L.Ye.,
tekhn.red.

[Continuous methods for production processes in the machinery
industry] Potochnye metody organizatsii proizvodstva v mashi-
nostroenii. Moskva, Izd-vo "Znanie," 1960. 47 p. (Vsesoiuznoe
obshchestvo po rasprostraneniю politicheskikh i nauchnykh
znaniy. Ser.3, Ekonomika, no.19). (MIRA 13:7)
(Machinery industry)

RAZUMOV, Ippolit Mikhaylovich, prof., doktor ekonom.nauk; SHUKHGAL'TER, Lev Yakovlevich, dotsent, kand.tekhn.nauk; TEPILOV, Georgiy Vasil'yevich, prof., doktor ekonom.nauk; TATUR, Sergey Kuz'mich, prof., doktor ekonom.nauk; KATSENBOKEN, Boris Yakovlevich, dotsent, kand.tekhn.nauk [deceased]; LETENKO, Viktor Aleksandrovich, dotsent, kand.ekonom.nauk; MURAV'YEV, Mikhail Semenovich, dotsent, kand.tekhn.nauk; KOMAROV, F.V., inzh., retsenzent; METT, G.Ya., dotsent, red.; SALYANSKIY, A.A., red.izd-va; SOKOLOVA, T.F., tekhn. red.; SMIRNOVA, G.V., tekhn.red.

[Organizing and planning machinery plants] Organizatsiia i planirovanie mashinostroitel'nykh predpriatii. Pod red. I.M.Razumova i L.I.A. Shukhgal'tera. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 491 p. (MIRA 13:6)

(Machinery industry)

GINZBURG, Yevgeniy Grigor'yevich; SHUKHGAL'TER, I.Ya., red.; AVRUTSKAYA,
R.F., red.izd-va; EVENSON, I.M., tekhn.red.

[Economic aspects of industrial processes in the nonferrous
metallurgy] Ekonomika proizvodstvennykh protsessov v tsvetnoi
metallurgii. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi
i tsvetnoi metallurgii, 1961. 151 p.

(MIRA 14:3)

(Nonferrous metals--Metallurgy)
(Metallurgical plants--Accounting)

SHUKHGAL'TER, L.Ya.

At the sources of Sovietic standardization. Standartizatsiia 26
no.1:8-14 Ja '62. (MIRA 15:1)
(Standardization)

SHUKHGAL'TER, L.Ya., kand.tekhn.nauk

Increasing of the durability and reliability of machinery is the most important objective of the machinery industry. Mashinostroitel' no.7: 3-5 J1 '62. (MIRA 15:7)

(Machinery industry)

BOYTSOV, V.V., doktor tekhn. nauk, prof.; STANKEVICH, V.G., inzh.,
retsenzent; SHUKHGAL'TER, L.Ya., kand. tekhn. nauk, red.;
BALANDIN, A.F., red. izd-va; UVAROVA, A.F., tekhn. red.

[Mechanization and automation in small-lot production]Mechaniza-
tsiia i avtomatizatsiia v melkoseriinom proizvodstve. Moskva,
Mashgiz, 1962. 435 p. (MIRA 16:2)
(Automation) (Industrial management)

YEFIMOV, A.H., glav. red.; BACHURIN, A.V., red.; VOLODARSKIY, L.M., red.; GERSHEBERG, S.R., red.; GINZBURG, S.Z., red.; DUNDUKOV, G.F., red.; KIRZHNER, D.M., red.; KLIMENKO, K.I., red.; KOMAROV, F.V., red.; KOROL'KOV, A.N., red.; KYLOV, P.N., red.; LIVANSKAYA, F.V., red.; LOKSHIN, E.Yu., red.; OSTROVITYANOV, K.V., red.; POSVYANSKIY, S.S., red.; PRUDENSKIY, G.A., red.; RAZUMOV, N.A., red.; RUMYANTSEV, A.F., red.; TATUR, S.K., red.; SHUKHGAL'TER, L.Ya., red.; BAZAROVA, G.V., starshiy nauchnyy red., kand. ekon. nauk; KISEL'MAN, S.M., starshiy nauchnyy red.; GLAGOLEV, V.S., nauchnyy red.; TUMANOVA, N.L., nauchnyy red.; BLAGODARSKAYA, Ye.V., mlad. red.; SHUSTROVA, V.M., mladshiy red.; GAYDUKOV, Yu.A., kand. ekon. nauk, red.; ZBARSKIY, M.I., red.; LOZOVOY, Ya.D., red.; SERGEYEV, A.V., dots., red.; KHEYFETS, L.M., kand. tekhn. nauk, red.; LYUBOVICH, Yu.O., kand. ekon. nauk, red.; SYSOYEV, P.V., red.; KOSTI, S.D., tekhn. red.

[Economic encyclopedia; industry and construction] Ekonomicheskaia entsiklopediia; promyshlennost' i stroitel'stvo. Chleny red. kollegii: A.V. Bachurin i dr. Moskva, Gos. nauchn. izd-vo "Sovetskaya entsiklopediia." Vol. 1. A - B. 1962. 951 p. (MIRA 15:10)

(Russia--Industries--Dictionaries)
(Construction industry--Dictionaries)

SHUKHGAL'TER, Lev Yakovlevich; ZAV'YALOVA, A.N., red.; GERASIMOVA,
Ye.S., tekhn. red.

[Economic aspects of the durability and reliability of
machinery] Ekonomika dolgovechnosti i nadezhnosti mashin.
Moskva, Ekonomizdat, 1963. 147 p. (MIRA 16:5)
(Machinery)

SHUKHGAL'TER, L., kand.tekhn.nauk

Economic analysis of new equipment. NTO 5 no.1:43-45 Ja '63.
(MIRA 16:5)

(Industrial management)

ZAKHAROV, N.N., prof.; RAZUMOV, I.M., doktor ekon.nauk, prof., red.;
BOYTSOV, V.V., doktor tekhn. nauk, prof., red.; VLASOV, B.V.,
doktor tekhn.nauk, prof., red.; VOSKRESENSKIY, B.V., inzh.,
red.; KUZ'MIN, V.V., inzh., red.; LETENKO, V.A., kand.ekon.
nauk, dots., red.; SOKOLITSYN, S.A., kand. tekhn. nauk, red.;
SHUKHGAL'TER, L.Ya., kand. tekhn. nauk, dots., red.;
SEMENOVA, M.M., red.izd-va; SALAZKOV, N.P., tekhn. red.;
EL'KIND, V.D., tekhn. red.

[Establishment of technical norms and the organization of
labor and wages in machinery manufacturing] Tekhnicheskoe
normirovanie, organizatsiia truda i zarabotnoi platy v ma-
shinostroenii. Moskva, Izd-vo "Mashinostroenie," 1964. 338 p.
(MIRA 16:7)

SHUKHVAL'TER, L.Ya., kand.tekhn.nauk,dotsent

Some economic aspects of the durability and reliability of
machines. Vestn. mashinostr. 44 no. 4:69-74 Ap '64. (MIRA 17:6)

СИСТЕМА БЕЗДЕФЕКТНОГО ПРОИЗВОДСТВА

System of a flawless manufacture of articles forms the advanced trend of the modern organization of production. Mashinostroitel' no. 722-5 JI '64. (MIRA 17:8)

YAMPOL'SKIY, S.M., prof.; ERLIKH, I.B., prof.; SHUKHOL'TEN, L.Ya.,
doks., kand. tekhn. nauk, retsenzent

[Economics of mastering machinery of new design] Ekonomika
osvoeniia novykh konstruktsii mashin. Moskva, Mashino-
stroenie, 1964. 164 p. (MIRA 18:2)

SHUKHGAL'TER, M.

Structure of the labor force in the manufacturing industry of
the U.S. Biul.nauch.inform.trud i zar.plata no.1:62-69 '59.
(MIRA 12:4)

(United States--Industrial organization)

SHUKHGAL'TER, M.

Principles of the international classification of occupations. Biul.nauch.inform: trud i zar.plata 3 no.2:55-59
'60. (MIRA 13:6)

(Job analysis)

SHUKHGAL'TER, M.

Automation of productional processes and the qualifications
of the workers-operators in the industrial enterprises of the
U.S.A. Biul. nauch. inform.: trud i zar. plata 4 no.10:55-62
'61. (MIRA 14:10)

(United States—Automation)
(Work)

SHUKHGAL'TER, M.

Technicians in U.S.A. industries. Biul. nauch. inform.: trud i
zar. plata 5 no.6:61-64 '62. (MIRA 15:6)
(United States--Technicians in industry)

OCHAN, S.I.; IGNATOVA, N.I.; SHUKHGALTER, M.V.

Comparative data on the excretion of 17-ketosteroids in women with a presenile psychosis and a climacteric syndrome. Vrach. delo no.9:76-80 S'63. (MIRA 16:10)

1. Odesskiy nauchno-issledovatel'skiy psikhonevrologicheskiy institut.

(STEROIDS) (SENILE PSYCHOSIS) (CLIMACTERIC)

SHUKHGALFR, M.Ya., inzh.

Production of oil from grape seeds. Masl.-zhir.prom. 26 no.1:8
Ja '60. (MIRA 13:4)

1. Odesskiy maslozavod.
(Odessa--Oils and fats) (Grapes)

ARTEMOV, N.M.; SHUKHGAL'TER, T.A.

Effect of bee poison on blood coagulation; preliminary report. Uch.zap.
Gor'.un. no.19:89-94 '51. (MLRA 6:6)
(Poisons--Physiological effect) (Blood--Coagulation)

USHERENKO, A.; SHUKHGALTER, Ye.M., inzh.-tehnolog

Efficient method for home preparation of tomato puree. Kons.
i ov.prom. 14 no.12:42 D '59. (MIRA 13:3)

1. Glavnyy inzhener Adygeyskogo konservnogo kombinata (for
Usherenko).

(Tomatoes, Canned)

USHERENKO, A.A.; SHUKHGALTER, Ye.M.

Method of cooking tomato pulp eliminating its sticking to
the heated surface. Kons.i ov.prom. 15 no.2:12-13 F '60.
(MIRA 13:5)

1. Adygeyskiy konservnyy kombinat.
(Tomato products)

SHUKHIN, Ivan Vasil'yevich, kapitan 2 ranga; TONKOV, A.A., redaktor;
SLEPTSOVA, Ye.N., tekhnicheskii redaktor

[In naval engagements every second is precious] V morskoi boiu
sekunda doroga. Moskva, Voen. izd-vo Ministerstva obor. SSSR,
1956. 35 p. [Microfilm] (MLRA 10:4)
(Naval art and science)

KRUZHALOV, I.P., kapitan 1 ranga; SHUKHIN, I.V., kapitan 1 ranga

Employment of retired naval officers. Mor.sbor. 44 no.1:34-42
Ja '61. (MIRA 14:3)

(Russia--Navy reserves)
(Veterans--Employment)

SHVARTSMAN, Vladimir Osipovich; SHUKHIN, N.N., otv.red.; BOGACHEVA, G.V.,
red.; KARABILOVA, S.F., tekhn.red.

[Cable inserts in overhead communication lines] Kabel'nye vstavki
v vozdushnye linii sviazi. Moskva, Gos.izd-vo lit-ry po voprosam
sviazi i radio, 1960. 81 p. (MIRA 13:6)
(Electric cables)

SHUKHIN, V.A., prof., zasluzhennyy deyatel' nauki Bashkirskoy ASSR; IBRAGIMOVA,
M.C., kand. med. nauk

Activity of the Bashkir Scientific Society of Pathoanatomists and
Forensic Medical Personnel in 1961-1962. Arkh. pat. 25 no.11:87-88
'63. (MIRA 17:12)

1. Predsedatel' Pravelniya Bashkirskogo nauchnogo obshchestva patolo-
goanatomov i sudebnykh medikov (for Shukhin). 2. Sekretar' Bashkirskogo
nauchnogo obshchestva patologoanatomov i sudebnykh medikov (for Ibragimova).

SHUKHINA, N. A.

"Methods for Evaluating the Quality of Oak Extracts." Sub 23 Jan 47
Moscow Technological Inst of Light Industry imeni L. M. Kaganovich

Dissertations presented for degrees in science and engineering in
Moscow in 1947

SO: Sum.No. 457, Apr 55

SHIMAZU, N. N.

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Office of the Director of Central Intelligence
Director's Office
Washington, D.C. 20505
(SI 10:11)

SHUKHMAN, Aba Semenovich; TIKHONOV, K.K., kandidat tekhnicheskikh nauk,
redaktor; BOBKOVA, Ye.N., tekhnicheskiiy redaktor

[Organization of dense freight traffic; experience of the Ufa
division of the Ufa railroad line] Organizatsiia dvizheniia na
gruzonapriazhennykh liniakh; iz opyta Ufinskogo otdeleniia
Ufinskoi dorogi. Moskva, Gos.transp.zhel-dor.isd-vo, 1957.
60 p. (MLRA 10:9)

(Railroads--Traffic)

TSEYTLIN, Z.D.; GURILEV, A.M.; NOSOV, N.I.; SHESHKAUSKAS, K.K.; SHUKHMAN, D.I.

Technical and economic indices of the operation of individual peat works during 1957. Torf. prom. 35 no. 4:1-6 '58. (MIRA 11:7)

1. Glavnyy inzhener Berendeyevskogo predpriyatiya Yaroslavskogo sovnarkhoza (for Tseytlin). 2. Glavnyy inzhener Sitnikovskogo torfopredpriyatiya Gor'kovskogo sovnarkhoza (for Gurilev). 3. Glavnyy inzhener Oktyabr'skogo torfopredpriyatiya Ivanevskogo torfotresta (for Nosov). 4. Nachal'nik proizvodstvennogo otdela Torfopredpriyatiya Belaya Baka Litovskogo sovnarkhoza (for Sheshkauskas). 5. Glavnyy inzhener Belorusskogo torfotresta No. 1 (for Shukhman).
(Peat industry)

AKSENOV, Ye.A., glav. red; LAGUTO, L.D., red.; SHUKHMAN, D.I.,
red.; LYUDCHIK, K.F., red.; OSADCHIY, Ye.A., red.

[Production of peat briquets and semibriquets; exchange
of technical-production experience Proizvodstvo torfia-
-kh briketov i polubriketov; obmen proizvodstvenno-
tehnicheskim opytom. Minsk, Izd. red.-izd. otdela In-ta
nauchno-tekhn. informatsii i propagandy Goskomiteta Soveta
Ministrov BSSR po koordinatsii nauchno-issl. rabot, 1962.
79 p. (MIRA 17:11)

1. Vsesoyuznoye nauchno-tekhnicheskoye obshchestvo energe-
ticheskoy promyshlennosti. Belorusskoye respublikanskoye
otdeleniye.

TARNOVSKIY, A.I., inzh.; SHUKHMAN, D.I., inzh.

Manufacture of peat semibriquets in White Russia. Torf. prom.
36 no.7:16-18 '59. (MIRA 13:3)

1. Sovnarkhoz BSSR.
(White Russia--Peat)

KARAKIN, F.F.; RODICHEV, A.F.; PUTIY, G.P.; BASOV, A.P.; PYATAKOV,
L.V.; RAUTSEP, A.P. [Rautsepp, A.]; BLAGONRAVOV, S.I.;
GRECHIKHO, A.M.; DRUZHININ, N.N.; SHUKHMAN, D.I.; BAUSIN, A.F.;
LOYKO, P.G.; CHERNAKOV, B.A.; SHORNIKOV, F.M.; SOPIN, P.F.

Remarks of the members of the Conference. Torf. prom. 37 no.5:
22-28 '60. (MIRA 14:10)

1. Ivanovskiy gosudarstvennyy torfotrest (for Karakin).
2. Sverdlovskiy torfotrest (for Rodichev).
3. Gosplan USSR (for Putiy).
4. Leningradskiy gosudarstvennyy trest torfyanoy promyshlennosti (for Basov).
5. Moskovskiy oblastnoy sov-narkhoz (for Pyatakov).
6. Gosudarstvennyy nauchno-tekhnicheskiy komitet Estonskoy SSR (for Rautsep).
7. Gor'kovskiy sov-narkhoz (for Blagonravov).
8. Belorusskiy sov-narkhoz (for Grechikho, Shukhman).
9. Yaroslavskiy sov-narkhoz (for Druzhinin).
10. Bobruyskaya mashinno-meliorativnaya stantsiya (for Loyko).
11. Gipromestprom Gosplana RSFSR (for Chernakov).
12. Mezhkolkhoznoye torfopredpriyatiye "Volosovskoye" Leningradskoy oblasti (for Shornikov).
13. Vsesoyuznyy nauchno-issledovatel'skiy institut torfyanoy promyshlennosti (for Sopin).
(Peat industry)

SHUKHMAN, D. YA.: Inzh.

Machinery, Automatic; Electric Wiring

Improving the electric wiring of the semi-automatic
welding machine S-4, Avtog. delo, 23, no. 3, 1952.

SO: Monthly List of Russian Accessions, Library of Congress, June 195², Uncl.

SHUKHMAN, D. YA.

USSR/ Engineering - Machine construction

Card : 1/1

Authors : Antonov, I.A., Eng.; Kurlovich, Yu. V.; Eng.; & Shukhman, D. Ya, Eng.

Title : New gas-cutting machine with remote-controlled copying device

Periodical : Vest. Mash. 34/5, 78 - 80, May 1954

Abstract : This new gas-cutting machine, with remote-controlled duplicating device, is especially practical in heavy-machine construction and in ship building. Its design makes it possible to use smaller and cheaper patterns. The new machine was developed by the Institute of Autogenous Working of Metals. It cuts parts out of sheet steel 5-200 mm thick and has six cutters. The scale with relation to the pattern is 5:1.

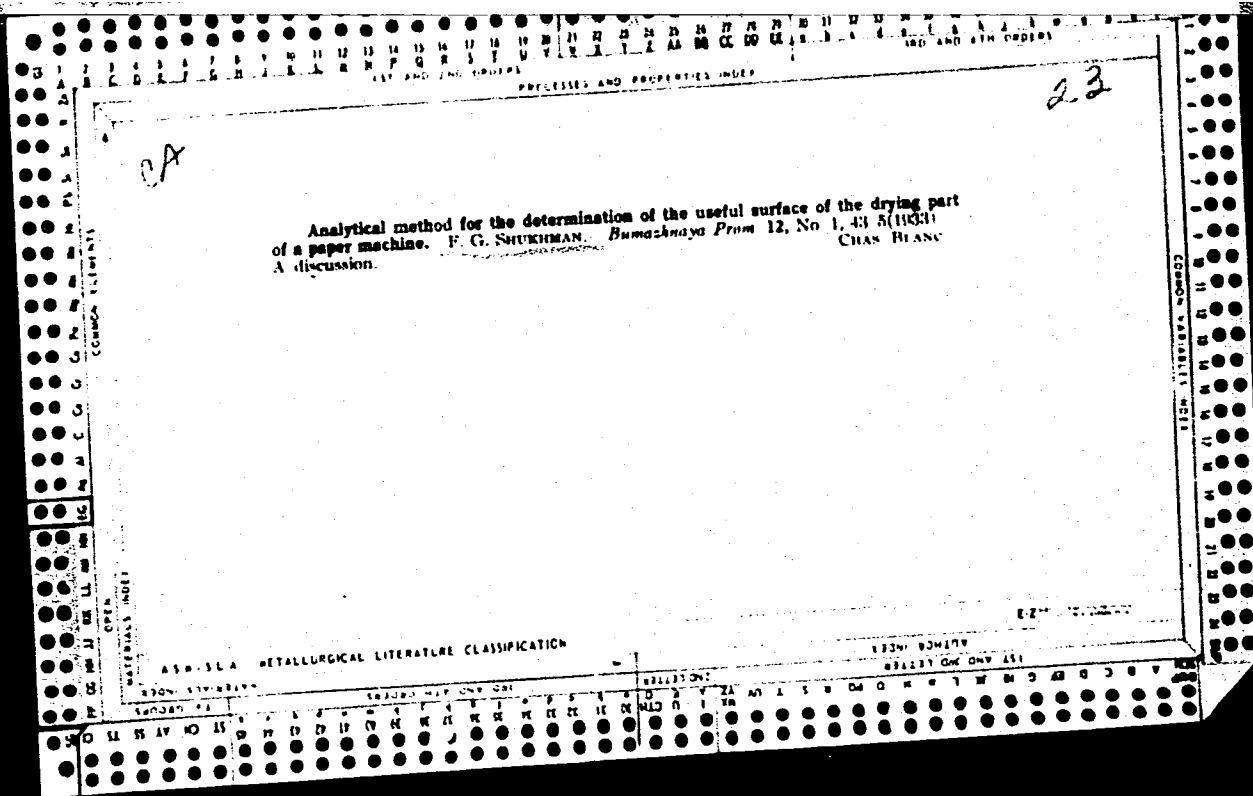
Institution :

Submitted :

SHUKHMAN, D.YA.
ANTONOV, I.A., kand.tekhn.nauk; ANTOSHIN, Ye.V., inzh.; ASINOVSKAYA, G.A.,
inzh.; VASIL'YEV, K.V., kand.tekhn.nauk; GUZOV, S.G., inzh.; DEYKUN,
V.K., inzh.; ZAYTSEVA, V.P., inzh.; KAZBEKOV, P.P., inzh.; KARAN,
Yu.B.; inzh.; KOLTUNOV, P.S., kand.tekhn.nauk; KOROVIN, A.I., inzh.;
KRZHECHKOVSKIY, A.K., inzh.; KUZNETSOVA, Ye.I., inzh.; MATVEYEV, N.N.,
tekhnik; MOROZOV, M.Ye., inzh.; NEKRASOV, Yu.I., inzh.; NECHAYEV,
V.D., kand.tekhn.nauk; NINBURG, A.K., kand.tekhn.nauk; SPEKTOR, O.Sh.,
inzh.; STRIZHEVSKIY, I.I., kand.khim.nauk; TESMENITSKIY, D.I., inzh.;
KHROMOVA, TS.S., inzh.; TSEUNEL', A.K., inzh.; SHASHKOV, A.N., kand.
tekhn.nauk, dots.; SHELECHNIK, M.M., inzh.; SHUKHMAN, D.Ya., inzh.;
EDEL'SON, A.M., inzh.; VOLODIN, V.A., red.; UVAROVA, A.F., tekhn.red.

[Machines and apparatuses designed by the All-Union Institute of
Autogenous Working of Metals] Mashiny i apparty konstruksii
VNIIAvtogen. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi
lit-ry, 1957. 173 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii
institut avtogennoi obrabotki metallov, no.9)

(Gas welding and cutting--Equipment and supplies)



SHUKHMAN, F.G. i FLYATE, D.M.

2496 Flyate, D.M. i Shukhman, F. G. Puti Povysheniya Proizvoditel'nosti
Bumagodelatel'nykh Mashin. Bumazh Prom-St', 1949, No 3, S 18-22
Bibliogr: 7 Nazv.

So: letopis' No 33, 1949

Ii Lesozagotovki. Lecnaya i Derevoobrabatyvayushchaya Promyshlennost'.
mebel'noye Proizvodstvo.

SHUKHMAN, F.G., kandidat tekhnicheskikh nauk.

Location of web guide rollers. Bum.prom. 28 no.7:19-22 Jl '53. (MIRA 6:7)
(Paper-making machinery)

SHUKHMAN, F.G.

Chemical Abst.
Vol. 48
Apr. 10, 1954
Cellulose and Paper

①
High-speed paper machine problems. F. G. Shukhman.
Bumash. Prom. 28, No. 12, 10-16(1953). Three basic
problems of high-speed paper machines are discussed:
delivering stock to the wire, transferring the sheet from the
couch to the press section, and the removal of condensate
from the driers. Several types of modern head box design
and couch transfers are described. John Lake Keays

SHUKHMAN, F.G., kandidat tekhnicheskikh nauk; IVANOV, S.N., redaktor;
~~SAZHENKO~~, A.P., redaktor; GRODNITSKAYA, Ye.M., redaktor
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